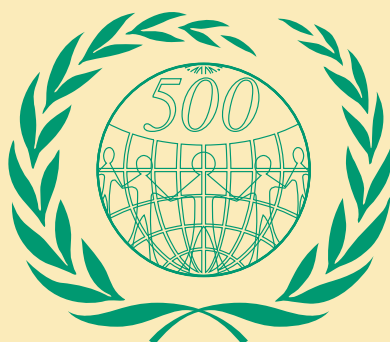


**UNEP**

**THE GLOBAL 500**  
**ROLL OF HONOUR**  
**FOR ENVIRONMENTAL ACHIEVEMENT**



**1987 - 2003**

**Seventeen years of**  
**environmental achievement**



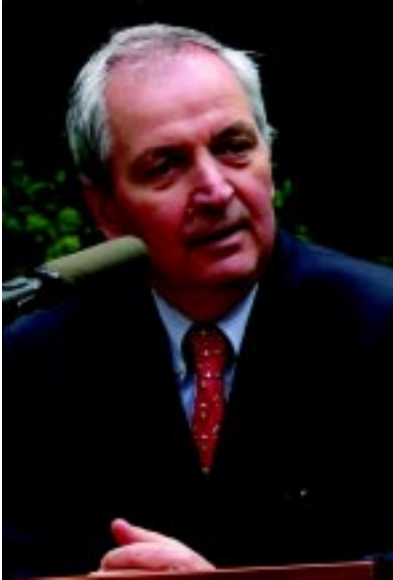


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## INTRODUCTION



In 1987, UNEP launched the Global 500 Roll of Honour for Environmental Achievement to recognize and reward individuals and organizations around the world that have made an impact in protecting the environment and promoting sustainable development.

I am proud to present the profiles of these heroes at the front line of global environmental action. These environmental defenders do not seek rewards, but their achievements richly deserve to be recognized. UNEP is happy, indeed honoured, to have paid tribute to their commitment. We hope that this recognition, in the form of the Global 500, has encouraged the laureates to continue their work. We also hope that their examples will continue to inspire and guide other men, women and young people to join the global coalition dedicated to protecting the environment.

The Global 500 awards were originally intended as a five-year programme. However, they have evolved considerably over the years. The initial concept has stretched to 17 years and 735 winners in the adult and youth categories.

UNEP, and the governments it represents, need networks such as those represented by the laureates. We sincerely hope they stay in touch with each other and work together to further the cause of sustainable development and the creation of world peace and prosperity for all.

UNEP wishes to maintain a close relationship with all of its laureates. They are a source of inspiration and strength. I thank them for their commitment to the protection of the environment and to the work of UNEP.

Klaus Toepfer

A handwritten signature in black ink, appearing to read 'Klaus Toepfer'. The signature is stylized and written in a cursive-like font.

Executive Director



## **1987 GLOBAL 500 LAUREATES**

**Anil Agarwal** (deceased)  
Centre for Science and Environment (CSE)  
41 Tughlakabad Institutional Area  
New Delhi 110 062  
India  
Tel: (91-11) 608 1110/1124/3394/6399  
Fax: (91-11) 608 5879  
E-mail: sudha@cseindia.org

Mr. Agarwal, an Indian national, was an environmental journalist and writer, the Director of the Centre for Science and Environment, one of the leading voluntary organizations involved in environmental research in India.

**Azaria Alon**  
Kibbutz Bet Hashita  
8910 Bet Hashita  
Israel  
Tel: (972-065) 31226/867

Mr. Alon is the founder of the Society for the Protection of Nature in Israel and active in creating nature reserves and other protected areas. He was awarded the Israel Environment Prize in 1978.

**Arab Office for Youth and Environment (AOYE)**  
P.O. Box 2, Magles El Shaab  
Cairo  
Egypt  
Tel: (202) 516-1519, 516-1245  
Fax: (202) 516-2961  
E-mail: aoye@link.net  
Web site: www.aoye.org

AOYE is the leading non-governmental organization of its kind in the Arab world. Formed in 1978, it holds environmental seminars, workshops and training courses for young people and is involved in tree planting campaigns. It publishes a bi-monthly bulletin and magazine, and translates proceedings of major environmental conferences into Arabic.

**George Archibald**  
International Crane Foundation  
P.O. Box 447  
Baraboo, WI 53913-0447  
United States of America  
Tel: (608) 356-9462  
Fax: (608) 356-9465  
E-mail: Explorer@savingcranes.org

Dr. Archibald is Director of the International Crane Foundation (ICF) and a world authority on the study and preservation of the species. Among his best-known work is the joint USA-Russian project on the Siberian Crane. Siberian Crane eggs produced at ICF are sent to Russia where they are hatched. The chicks are then reared in the wilderness and released with the last of the wild Siberian Cranes in western Siberia.

**Asociación Peruana para la Conservación de la Naturaleza**  
Parque José de Acosta 187  
Magdalena del Mar  
Lima 17  
Perú  
Tel: (511) 264 5804/264 0094  
Fax: (511) 264 3027  
E-mail: apeco@apeco.org.pe  
Ssanchez@apeco.org.pe

A Peruvian non-profit organization committed to the conservation and management of biological diversity. Since its inception in 1982, APECO has conducted research projects such as the conservation status for yellow-tailed monkey, penguins, shore birds, the faunal inventory of Rio Abiseo National Park and conservation and development in Lake Titicaca National Reserve. Since 1990, a new strategy has been developed based on the concept of an integrated conservation program. The first integrated conservation program that APECO launched seeks to control the rate of deforestation and to conserve biological diversity in the mountain forest in Northeast Peru.

**Sir David Attenborough**  
5 Park Road  
Richmond  
Surrey TW10 6NS  
United Kingdom  
Tel: (44-208) 940 5055  
Fax: (44-208) 948 8113

An outstanding producer and presenter of environmental and wildlife television programmes. He is a committed conservationist who has written extensively on the subject.

**Bamburi Portland Cement Ltd.**  
P. O. Box 90202  
Mombasa Kenya  
Tel: (254-11) 485501  
Fax: (254-11) 485088

This company successfully "greened" their entire factory and quarry sites by tree planting and landscaping. A self-sustaining and self-financing integrated forest ecosystem has been established covering an area of 200 hectares with over 1.5 million trees planted. It is a model for Africa and indeed the world in environmental rehabilitation of industrial wastelands.

**Bellerive Foundation**  
P. O. Box 42994  
Nairobi  
Kenya  
Tel: (254-2) 720274

In East Africa, the Foundation promotes environmental conservation and sustainable development. Its programme focuses on tree and woodfuel conservation through education and training and the dissemination of efficient cooking systems.

**Chandiprasad Bhatt**

Sarvodya Kendera  
P. O. Gopeshwar  
246401 Dist. Chamoli  
Uttarakhad U.P.  
India

Leader of India's famous "Chipko" movement to protect and replant trees in the Himalaya forests.

**Francis Boateng**

Ghana National Fire Service  
P. O. Box 4129  
Accra  
Ghana  
E-mail: epainfo@ghana.com

Mr. Boateng has, since 1984, trained over 60,000 villagers in how to prevent and control forest and bush fires in Ghana. His efforts have made a significant impact and have resulted in important financial savings.

**Dr. Lester R. Brown**

Earth Policy Institute  
1350 Connecticut Avenue, NW  
Suite 403  
Washington, D.C. 20036  
United States of America  
Tel: (202) 496 9290  
E-mail: rjkauffman@earth-policy.org

Mr. Brown, President of the WorldWatch Institute, based in Washington DC, and is a prominent writer and speaker on environmental issues. He addresses issues such as food security, population, and sustainable utilization of natural resources.

**Dr. Bob Brown**

G.P.O. Box 404  
Tasmania 7001  
Australia  
Tel: (613) 6234 1633  
Fax: (613) 6234 1577  
E-mail: senator.brown@aph.gov.au

A medical practitioner, a Green Member of Parliament and former director of the Tasmanian Wilderness Society, Mr. Brown has been a leader of grassroots and political campaigns to preserve the Tasmanian Wilderness Area. He has contributed to the conservation of the Franklin River and the tall eucalypti forests, which has been proclaimed a World Heritage Site by UNESCO.

**Dr. Gro Harlem Brundtland**

World Health Organization  
1211 Geneva 27  
Switzerland  
Tel: (41-22) 791 21 11  
Fax: (41-22) 791 07 46  
E-mail: brundtland@who.ch

A former Prime Minister of Norway and Chairman of the UN World Commission on Environment and Development. Ms. Brundtland served as Minister for the Environment in Norway from 1974-1979.

**Charles Caccia**

353-S Centre Block  
House of Commons  
Ottawa K1A OA6  
Canada  
Tel: (613) 992 2576  
Fax: (613) 995 8202  
E-mail: caccia.c@parl.gc.ca

Mr. Caccia, a former Minister of Environment of Canada, has demonstrated a remarkable capacity for innovation on significant global issues such as acid rain on which he was instrumental in launching the "30 per cent Club" whereby a number of governments agreed voluntarily to limit sulphur dioxide emissions by 30% by 1993.

**Caribbean Conservation Association (CCA)**

'Chelford'  
Bush Hill, The Garrison  
St. Michael  
Barbados  
Tel: (246) 426 5373  
Fax: (246) 429 8483  
E-mail: cca@caribsurf.com

A Caribbean non-governmental organization, founded in 1967, CCA has brought together governments and NGOs in the region to work together for sustainable development. CCA is the implementing agency for UNEP's Caribbean Action Plan on environmental education and public awareness in 28 states.

**China Environmental News (CEN)**

15A Xiaoxinglongjie  
Chongwen District  
Beijing 100062  
People's Republic of China

CEN, published three times a week and with a circulation of 600,000, promotes environmental awareness particularly as it concerns afforestation and the conservation of China's endangered species, the Giant Panda and the Golden Monkey. Over 1,000 CEN articles have been reprinted by other Chinese publications.

**Brian Clark**

Executive Director  
Department of Geography  
University of Aberdeen  
High Street, Old Aberdeen  
Scotland AB9 2UF  
United Kingdom

Since 1973 Mr. Clark has created and taught courses at the University of Aberdeen in environmentally sound management of development policies. To date, over 1,000 individuals from developing countries have received training.

**College of African Wildlife Management**

**MWEKA**  
P. O. Box 3031  
Moshi  
Tanzania  
Tel: KIBOSHO 18 or 24

Since its establishment in 1963, the college has trained over 1,000 graduates from Africa in wildlife management. These graduates now fill key conservation positions throughout the continent.

**Hernan Contreras Manfredi**

Apartado 81  
 Correo Carmelitas  
 Caracas  
 Venezuela  
 Tel: (582 12) 573 8596  
 E-mail: hercomaf@supercable.net.ve

A Chilean Agronomist and Master of Soil Science of the University of California, organized very successful national courses in Chile and Venezuela, in natural resources management and conservation, training more than 23,000 individuals until 1979. He later initiated similar environmental education and media programmes in other parts of Latin America.

**Luc Cuyvers**

The Mare Nostrum Foundation  
 93 Main Street, Suite 400  
 Annapolis, Maryland 21401  
 United States of America  
 Tel: (301) 263 3324/261 1467

In 1980, Mr. Cuyvers a Belgian, founded *The Mare Nostrum Foundation* to campaign for the sustainable development and management of the oceans. He is producing a television series, "The Blue Revolution", for the Public Broadcasting Service in the United States.

**Bedrettin Dalan**

Istanbul Belediyes  
 Aksaray, Istanbul  
 Turkey  
 Tel: (90-1) 528 5746  
 Telex: 22454 TBELTR

As Mayor of Istanbul, Mr. Dalan has transformed the Golden Horn, a polluted industrial and residential area by planting trees, improving the landscape and creating parks. His achievement is a model for many cities.

**Diario El Comercio**

Jiron Miro Quesada  
 304 Lima  
 Peru

This Peruvian daily newspaper, founded in 1839, regularly publishes influential articles on the environment. Each World Environment Day, *Diario el Comercio* pays tribute to individuals and organizations who have made significant contributions to conservation in Peru.

**Environmental Management Journal**

Springer-Verlag New York Inc.  
 175 Fifth Avenue  
 New York City, NY 10010  
 United States of America  
 Tel: (212) 460 1500

Founded in 1976 by Robert de Santo, this influential environmental journal publishes major articles designed to be particularly useful to scientists and decision-makers.

**Vladimir Flint**

Chief, Fauna Section  
 Central Laboratory of Nature Conservation  
 Znamenskoye-Sadki  
 113628 Moscow  
 Russia

Professor Flint, Chief of the Fauna Section of the Russian Central Laboratory for Nature Conservation is particularly noted for his work for preserving the Siberian crane. His project is a joint Russian-USA effort, which he has led in partnership with Dr. George Archibald.

**Fundacion Natura**

Av. America 5653 y Voz Andes  
 P. O. Box 17 01 253  
 Quito  
 Ecuador  
 Tel: (593-2) 44 73 41/42 43 44

Fundacion Natura is an Ecuadorian non-profit, non-governmental organization whose mission is to promote a national conscience dedicated to an improved, just and integrated quality of life for Ecuadorians and the conservation of the environment. In order to achieve its goal, Fundacion Natura promotes policies and actions targeted to meet human needs and to guarantee the continuance of ecological processes primarily in the areas of environmental education, communications, conservation of biodiversity and environmental law.

**Fundacion para la Defensa del Ambiente (FUNAM)**

Casilla de Correo 83  
 Correo Central  
 5000 Cordoba  
 Argentina  
 Tel: (54-51) 69 02 82  
 Fax: (54-51) 52 02 60

FUNAM was awarded the *Conservar el Futuro* Annual Prize by the National Park Administration and the Bigua Prize from Cordoba's non-governmental organizations (NGOs). As an NGO, FUNAM developed research, environmental education and a wide environmental network. Its "Children's Environment Defenders Club" has a membership of more than 1,000 children. FUNAM has participated in radio and television programmes. Since 1982, FUNAM conducted more than 50 courses on environmental issues, and its booklets and technical proposals are widely used in Argentina. FUNAM also contributed to the closure of Los Gigantes Uranium mining, and started national and international campaigns against environmental destruction.

**Fundacion para la Defensa de la Naturaleza (FUDENA)**

Calle la Gruta  
 Edif. Corimon, Ist Piso  
 Los Cortijos de Lourdes  
 Caracas  
 Venezuela  
 Tel: (582) 239 65 47/239 32 72

An influential Venezuelan foundation which publishes research studies on habitats, fauna and flora, FUDENA uses the media extensively to promote environmental awareness.

**Grigory Galazii**

Director  
Limnological Institute on Lake Baikal  
Russia

Dr. Galazii was Director of the Limnological Institute on Lake Baikal, Russia, the deepest body of fresh water in the world. For more than a decade the institute has worked to prevent and reverse pollution of this unique lake caused by chemical and industrial wastes.

**Joseph Glascott**

c/o Sydney Morning Herald  
235 Jones Street  
Broadway  
Sydney NSW 2008  
Australia  
Tel: (612) 9487 2854

As environment correspondent for the *Sydney Morning Herald* for more than ten years, Mr. Glascott has written thousands of articles and reports on urban issues, rain forests, water pollution, national parks and wildlife. His writing has had wide political and public influence, making him the pre-eminent environment journalist in Australia.

**Dr. Juan Grau**

Secretario General  
Instituto de Ecologia de Chile  
Augustinas, 641 Dep. 11  
Santiago  
Chile  
Tel: (562) 633 0963/633 1904  
E-mail: grau-eco@entelchile.net  
Website: www.doctorjuangrau.cl

Dr. Juan Grau is a prominent Chilean physician, and he has been General Secretary of the "Instituto de Ecologia de Chile" since 1975. Dr. Grau has influenced national consciousness of the environment through a weekly column in a newspaper, as well as through books and lectures. He has also initiated projects to protect wilderness areas and endangered species. He was honoured by the Scientific Society of Chile as the most outstanding ecologist for the period 1980-85. In 1992 during the National Meeting of Science and Culture, he received the Award "Chile XXI Century".

**Greenbelt Movement**

P. O. Box 67545  
Nairobi  
Kenya  
Tel: (254-2) 571 523  
Fax: (254-2) 504 264  
E-mail: gbm@iconnect.co.ke

The Greenbelt Movement is a Kenya grassroots organization, which has planted over two million trees since it was formed in 1977. The movement has involved nearly half a million children and 500 women's groups in tree-planting projects.

**Green Great Wall Group**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

Under the supervision of the Green Great Wall Group, a tree-belt of 5.3 million hectares, along the Great Wall of China, is being planted by millions of villagers. The tree-belt will provide economic returns and help moderate climate. This is one of the most extensive afforestation projects in the world.

**Grupo de los Cien**

Sierra Jiutepec No.155-B  
Lomas Barrilaco, 11010 Mexico, D.F.  
Mexico  
Tel: (525) 540 7379  
Fax: (525) 520 3577

Founded in 1985, *Grupo de los Cien* is Mexico's most influential environmental advocacy group composed of more than 100 prominent personalities in the arts, culture and science. Under the leadership of its president the writer Homero Aridjis, the group's efforts have led to a ban on the capture and commercialization of sea turtles in Mexico, legislation reducing the amount of lead in gasoline, daily notification in the press of air quality in Mexico city and official designation as sanctuaries of the nesting areas of the Monarch butterfly. The group was able to thwart a project to build dams along the Usumacinta River in the Mayan area of the Mexico/Guatemala border and also led a successful campaign to stop the building of an airport extension in the Texcoco nature reserve. In September 1991 the Group held a meeting of writers, scientists, representatives of indigenous peoples and environmentalists, The Morelia Symposium: Approaching the Year 2000, which led to the creation of an international network for defence of the environment: *the Grupo de Los Cien Internacional*. The Morelia Declaration was presented at the Earth Summit as a global statement by 896 intellectuals and environmentalists.

**Rene Daniel Haller**

Baobab Farm Ltd  
P. O. Box 81995  
Mombasa  
Kenya  
Tel: (254 -11) 485729/505 486155  
Fax: (254 -11) 485151

A Swiss agronomist, Mr. Haller planned and carried out for the Bamburi Portland Cement Company the rehabilitation of their strip-mined coral limestone quarries in Kenya. To date, 200 hectares of quarry wasteland have been transformed into a thriving self-sustaining and economically viable ecosystem with a vast variety of wildlife. Over 150 species of indigenous trees are succeeding the original timber monoculture. His work is a model not only in greening of industrial wasteland but also in demonstrating that man-made ecosystems can be economically viable. The old quarry has become a major attraction with over 87,000 registered visitors in 1991.

**Sir Edmund Hillary**

Chairman, Himalayan Trust  
278 Remuera Road  
Auckland 5  
New Zealand  
Tel: (64-9) 520 3169  
Fax: (64-9) 520 7847

Sir Edmund Hillary, who, with Sherpa Tenzing Norkay, was the first man to reach the summit of Mt. Everest. He is now New Zealand Ambassador to Nepal. There he has long been active in the preservation of forests and in the establishment of the Sagarmatha National Park in the Himalayas.

**Soichiro Honda (deceased)**

Honda Motors Co., Ltd.  
2 7-8 Jingumai 6-Chome Shibuyaoku  
Tokyo  
Japan

The distinguished Japanese industrialist who helped invent the first low-polluting auto engine, headed the Honda Foundation which promotes international seminars on bringing ecology and technology together.

**Satu Huttunen**

University of Oulu  
Faculty of Natural Science  
SF 90100 Oulu  
Finland  
Tel: (358-81) 222 700  
E-mail: satu.huttunen@oulu.fi

Dr. Huttunen is a noted Finnish researcher on air pollution and the acidification of forests. The results of her research have been used as a basis for making decisions on combating air pollution and they have helped raise public awareness. She was honoured as Finland's "Woman of the Year" in 1986.

**Instituto Forestal Latinoamericano**

Apartado 36  
Merida  
Venezuela  
Tel: (58-74) 440535

This Venezuelan non-governmental organization has assembled the largest data bank on forestry in Latin America with some 25,000 references. The Institute conducts research and training on tropical forest management.

**Petar Jovanovic**

8 Omladinskih Brigada  
11070 Beograd  
Yugoslavia  
Tel: (38-11) 676 157

A Yugoslav physician and researcher on environment-linked diseases, Dr. Jovanovic devised an action plan for combating diseases linked to desertification and improved the methods of their diagnosis.

**Abdullahi Karani**

National Range Agency  
P. O. Box 1759  
Mogadishu  
Somalia  
Tel: (252) 80710/81742

Dr. Karani is the general manager of the Somali Range Agency, which for ten years has successfully carried out sand dune fixation projects.

**Mr. G. V. and Mrs. K. Karlekar**

Calcutta Social Project  
172/3 Rashbehari Avenue  
Calcutta 700029  
India  
Tel: (91-33) 463 693

The Karlekars, through the Calcutta Special Project, have worked for many years in degraded urban environments. They run a non-formal school teaching basic skills to the scavenger children of the Dhapa garbage dump in Calcutta.

**Mohamed Kassas**

Faculty of Science  
University of Cairo  
Giza 12613  
Egypt  
Tel: (202) 567 6990  
Fax: (202) 572 7556  
E-mail: sherif@auc-acs.eun.eg

A prominent Egyptian plant ecologist Prof. Kassas has served in several regional and international environmental organizations. As President of the International Union for Conservation of Nature and Natural Resources (1978-84) he led the initiative to formulate a World Conservation Strategy (1980) and a World Charter for Nature (1981).

**Mugamir Eisa Khalifa**

c/o Dr. El Hag El-Tayeb El-Tahir  
Relief and Rehabilitation Commission  
P. O. Box 1975  
Khartoum  
Sudan  
Tel: (249) 74924

Mugamir Eisa Khalifa is a Sudanese farmer who pioneered anti-desertification measures in his village during the 1960s. The Beshiri Sand Dunes Stabilization project, which he leads, is a success model of desertification control.

**Sophie Kiarie**

The Bellerive Foundation  
P. O. Box 8  
Ruiru, Nairobi  
Kenya  
Tel: (254-2) 720274  
E-mail: sophiakiarie@yahoo.com

Fuelwood was scarce in the Ruiru area of Kenya. Sophia Kiarie started the Bellerive Foundation's first tree nursery programme. She developed a successful approach to distributing, planning and nurturing seedlings through schools and organizations in her community. Ms. Kiarie organized tree planting days for primary

schools, engaging the participation of school headmasters, teachers, students and their parents. Sixty Green Islands, each with 500 to 5,000 trees, have been established. The project also helped farmers to plant tree belts in their farms. Altogether, the programme has resulted in the planting of 2,000,000 trees by 100,000 people since 1982.

#### **King Mahendra Trust for Nature Conservation**

Babar Mahal  
P. O. Box 3712  
Kathmandu  
Nepal

The King Mahendra Trust, the first non-governmental environmental organization in the Kingdom of Nepal, campaigned for the establishment of Nepal's protected areas, including two tiger reserves. It promotes the sustainable use of natural resources.

#### **Kuwait Environment Protection Society**

P. O. Box 1896  
13019 Safat  
Kuwait  
Tel: (965) 483 7856  
Fax: (965) 483 8256

During the past seven years, the Kuwait Environment Protection Society has significantly increased environmental awareness in the Gulf Region. The Society's monthly bulletin publishes studies by leading scholars who have influenced decisions in environmental planning and management.

#### **Thomas Landgren**

Asgatan 6  
54731 Gullspang  
Sweden

Thomas Landgren is Chairman of the Gullspang branch of the Swedish Association for the Protection of Nature - a citizen's group which has influenced local policies and publicized environmental problems such as threats to wetlands, the Gallspang salmon, and waste disposal.

#### **Geoffrey Lean**

Falconers, Tandridge Lane  
Nr. Lingfield, Surrey RH7 6LL  
United Kingdom  
Tel: (44-1342) 883 608/836 930  
Fax: (44-1342) 836 929  
E-mail: geofflean@yahoo.com

Geoffrey Lean is the influential environment correspondent of London's *The Observer*, newspaper. He has written extensively about pollution, development and nuclear power issues.

#### **Guy Lionnet**

P. O. Box 853  
Mahe  
Seychelles  
Tel: (248) 224 939  
Fax: (248) 225 131  
E-mail: doe@seychelles.net  
Sif@seychelles.net

A conservationist responsible for the creation of several national parks and the protection of endangered species in the Seychelles.

He successfully campaigned for the proclamation of the Aldabra Atoll as a World Heritage site.

**George Livanos** (deceased)  
Hellenic Marine Environment  
Protection Association (HELMEPA)  
5 Pergamon Street  
Nea Smyrni 17121 Athens  
Greece  
Tel: (301) 934 3088/934 1233/932 6277  
Fax: (301) 935 3847  
E-mail: helpmepa@ath.forthnet.gr

In 1982 George Livanos formed the Hellenic Marine Environment Protection Association (HELMEPA). Since the creation of HELMEPA, this prominent Greek shipping magnate has led a number of campaigns to reduce ship-generated marine pollution.

#### **Igor Mann** (deceased)

The late Dr. Mann was a Polish-born Kenya resident who worked tirelessly to improve livestock production in Kenya through the Animal Health and Industry Training Institute which he helped set up and directed for many years. He was involved in the formation of the Kenya National Freedom from Hunger Council, which promotes food self-sufficiency projects. In addition Dr. Mann was a world-renowned expert on zoonotic diseases and contributed substantially to the research, treatment and reduction of hydatidosis in general.

#### **Francisco "Chico" Mendes Filho** (deceased)

c/o Instituto de Estudos Amazonicos e  
Ambiente - (IEA)  
Rua Monte Castelo  
380 Taruma, 82530-200  
Curitiba Parana  
Brazil  
Tel: (55-41) 262 9494  
Fax: (55-41) 264 7152

A Brazilian activist and rubber tapper, Chico Mendes led the campaign for "extractive reserves" in the country's tropical rainforests. These reserves are used by rubber tappers and peasants to exploit the forests sustainability. He was assassinated by farmers in December 1988, in Acre, Western Amazon.

#### **Wlodzimierz Michajlow**

Noakowskiego Street 14 (Apt 11)  
WO-666 Warsaw  
Poland  
Tel: (48-22) 255 557

Prof. Michajlow, a parasitologist and zoologist, is President of the Polish Scientific Committee on Man and Environment.

#### **National Geographic Society**

1145 17th Street NW.  
Washington DC 20036  
United States of America  
Tel: (202) 857 7000  
Fax (202) 828 5460

Since 1888, the National Geographic Society's famed publications have provided an incomparable wealth of information about the world's ecosystems, cultures, and natural heritage.

**The Nature Conservancy**

4245 N. Fairfax Drive #100  
Arlington, Virginia 22203-1606  
United States of America  
Tel: (800) 628 6860  
E-mail [comment@tnc.org](mailto:comment@tnc.org)

Founded in 1951, The Nature Conservancy is an international conservation organisation committed to the protection of biodiversity. The Conservancy owns and manages more than 1,600 preserves in the US - the world's largest system of nature preserves. It has also helped protect millions of acres throughout Latin America, the Caribbean, and the Pacific Islands. Working with local conservation organisations, the Conservancy builds conservation capacity abroad, helping other nations safeguard their own natural heritage.

**Bernard Ledea Ouedraogo**

B.P. 100  
Ouahigouya  
Burkina Faso  
Tel: (226) 550 411/550 110  
Fax: (226) 550 220  
E-mail: [fugn@fasonet.bf](mailto:fugn@fasonet.bf)

Mr. Ouedraogo, an engineer in Burkina Faso, is the driving force behind the Association Six "S" - an organisation involving 700 village groups in the Sahel. The Association promotes environmentally sound small-scale projects including water conservation, afforestation, and grain storage.

**Claiborne Pell** (deceased)

Senator Claiborne Pell, a prominent US Senator (since 1961) with a distinguished public service record. Senator Pell initiated environmental legislation and influenced decisions of the United States government in support of national and international environmental programmes.

**Carlos Pizani**

Corporacion Nacional Forestal  
(CONAF)  
Casilla 317  
Vina del Mar  
Chile  
Tel: (56-32) 97618919/976589

A self-trained Chilean who for many years was responsible for the environmental protection of the Easter Island (Pacific Ocean) archeological sites in his capacity as head of the Rapa Nui National Park.

**Progressio-Programa Agroforestal**

Alianza del Campesino con el Arbol  
Avda. Maximo Gomez esq., 27 de  
Febrero, Piso 3  
Apartado Postal 22036  
Santo Domingo  
Dominican Republic  
Tel: (809) 685 9562/689 0171  
Fax: (809) 686 9882

A non-governmental organisation which has mobilised 3,300 farmers to plant more than one and a half million trees in the Nizao River Valley and to protect the catchment area. It has promoted family forestry projects to meet local food and woodfuel needs.

**Pronatura**

c/o Rosa Villamayor  
Dpto Parques Nacionales y  
Monumentos Historicos  
Ministerio de Defensa Nacional  
Mcal Lopez y Vice Pte Sanchez  
Asuncion  
Paraguay

A non-governmental organisation in Paraguay which led the campaign to establish national parks and protected areas. Pronatura also promotes conservation education in schools.

**Public Broadcasting Service**

475 Lenfant Plaza S.W.  
Washington DC 20024-2117  
United States of America  
Tel: (202) 488 5000

This non-commercial American TV station has produced many influential films on the environment.

**Gabor Racz**

Naturfilm Ltd  
1221 Budapest Leanyka u.3  
Hungary  
Tel: (361) 2265 662  
Fax: (361) 1314 790

Gabor Racz is a film director and author who for 30 years has worked with Hungarian Television, producing and directing films on the environment and nature conservation. He still pursues this activity for Hungarian and other TV stations today but as a freelancer and owner of a private company.

**Dr. Peter Raven**

Director, Missouri Botanical Garden  
P. O. Box 299 St. Louis,  
Missouri 63166-0299  
United States of America  
Tel: (314) 577 5111  
Fax: (314) 577 9595  
E-mail: [PRAVEN@NAS.EDU](mailto:PRAVEN@NAS.EDU)  
[Peter.raven@mobot.org](mailto:Peter.raven@mobot.org)

An American botanist who, during the past twenty years, has turned the Missouri Botanical Garden into a major centre of environmental conservation programmes, especially for developing tropical countries. He uses radio, TV and lobbying to further the environmental cause. He is a recipient of the UNEP Gold Medal (1982).

**Robert Redford**

c/o Sundance  
Rural Route 3, Box 624-A  
Sundance, Utah 84604  
United States of America  
Tel: (801) 225 4107

In addition to his work as an actor, Robert Redford has been a noted environmentalist. In 1975 he fought against Kaiparowits, a coal-fired power plant planned in Southern Utah surrounded by five National Parks. The outcome was that the plant was never built. Mr. Redford has also been involved with many pieces of environmental legislation including the Clean Air Act (1974-75); The Energy Conservation and Production Act (1974-76); strip

mining bills (1977-78) and the National Energy Policy Act (1989). In 1983, Mr. Redford founded the Institute for Resource Management (IRM) which has sponsored conferences addressing environmental issues that have reached deadlock, issues such as the Future of the Electric Power Industry; Resource Development on Indian Lands; Offshore Oil Leasing in the Bering Sea and Urban Air Quality.

#### **Margaret Robertson**

14 Rowley Street  
Albany WA 6330  
Australia  
Tel: (619) 335 4565  
Fax: (619) 335 6483  
E-mail: mroberts@falcon.fste.ac.cowan.edu.au

Margaret Robertson is the Coordinator of Wilderness Society campaigns for the passage of wilderness protection legislation in Australia, including the successful enactment of Australia's first Wilderness Act in the State of NSW in 1987. Ms. Robertson instigated a national wilderness education campaign, and undertook joint authorship of a comprehensive code of management for Australian wilderness areas. She was the recipient of a Federal Government World Environment Day Youth Award in 1987 for the Society's National Campaign for Wilderness and was awarded Honourary Life Membership of the Wilderness Society in 1991, following ten years of fulltime activism.

#### **Omda Sabil**

c/o Dr. Ahmad Ibrahim  
Regional Ministry of Agriculture  
Dar Fur el Fasher  
Sudan

Omda Sabil is a farmer from Berush Village in West Sudan who promoted forest conservation in his area and influenced other villagers to protect forests during the critical drought and famine period of 1983-84.

#### **Sahabat Alam Malaysia (SAM)**

37 Lorong Birch  
Penang  
West Malaysia

*Sahabat Alam Malaysia* (SAM) a leading environmental non-governmental organisation, which promotes stronger ties between NGOs in the region. SAM surveyed the state of tropical forests in five Asian countries and has a very extensive and effective communication network in the region, which publicises issues such as tropical forest destruction and pesticide pollution.

#### **Philip Shabecoff**

New York Times  
229 W 43rd Street  
New York  
United States of America  
E-mail: shabeco@erols.com

Philip Shabecoff is one of the most influential environmental journalists in the USA. His impartial and well-documented reports in the *New York Times* of US actions regarding the natural environment has helped create a national literacy on the subject.

#### **Jill Sheppard**

'Chelford', Bush Hill  
The Garrison  
St. Michael  
Barbados  
Tel: 1(246) 426-5373  
Fax: 1(246) 429-8483  
E-mail: cca@caribsurf.com

Ms. Sheppard is a Barbadian environmentalist who for 11 years directed the Caribbean Conservation Association - a broad-based non-governmental organisation which fostered links between government and NGOs in the region. Ms. Shepherd's work has had significant impact on the Caribbean environment.

#### **Ully Sigar**

Jl. Kubis III/105, Blok A/2,  
Kebayoran Baru  
Jakarta Selatan, Indonesia  
Tel: 62-21-7243913/7397864  
Fax: 62-21-7243913  
E-mail: GNCA001@hotmail.com  
ully@ullysigarrusady.com  
Web site: www.ullysigarrusady.com

Ully Sigar is a popular Indonesian cultural figure whose folk songs have helped create environmental awareness in Indonesia and Malaysia. She is active with environmental NGOs in Indonesia, taking her musical performances to villages.

#### **Ben Soans** (deceased)

CG Soan's Memorial Peoples Van Vigyan Kendras  
Siragate, Tumkar  
572106 Karnataka State  
India

Ben Soans was the leader of a grassroots movement, which planted millions of trees in two Indian States: Karnataka and Tamil Nadu. He has established five tree nurseries and training centres for farmers and school children. He received India's highest environmental award in 1985. He died on 24 June 1989.

#### **Chodchoy Sophonpanich**

Thai Environmental and Community  
Development Association  
15th Floor 333 Silom Road  
Bangkok 10500  
Thailand

An influential environmentalist and president of the Thai Environmental and Community Development Association. Ms. Sophonpanich has promoted environmental awareness nationwide, and has led major campaigns for a cleaner Bangkok, tree-planting and cleaner rivers and waterways.

#### **Stichting Werkgroep Behoud Tropisch Regenwoud**

c/o Ministry of Environment  
The Hague  
Netherlands

This Netherlands non-governmental organisation has worked extensively to raise the general awareness of the Dutch public about the state of tropical rainforests. It has published a report on alternatives to the use of tropical timber and has organised conferences on rainforests.

**Marion Stoddart**

P. O. Box 200,  
Groton, Massachusetts 01450  
United States of America  
Tel: (617) 448 33 31

For twenty years she campaigned for the clean up of the heavily polluted Nashua River in Fitchburg, Massachusetts, USA, restoring the river to a haven for salmon, trout and canoeists.

**Maurice Strong**

Earth Council  
255 Consumer's Road Suite 401  
North York, Ontario M2J 5B6  
Canada  
Tel: (416) 498 3150  
Fax: (416) 498 7296

Former Executive Director of UNEP (1973-76) and Secretary-General of the 1972 UN Conference on the Human Environment and of the 1992 UN Conference on Environment and Development. He was previously President of the Canadian International Development Agency (CIDA), and Chairman of the International Development Board. During this period, Mr. Strong served as Alternate Governor for Canada of the International Bank for Reconstruction and Development (IBRD); the Asian Development Bank (ADB) and the Caribbean Development Bank (CDB). He has received honours from more than twenty universities in Canada, USA and the United Kingdom, and was awarded the Tyler Ecology Award in 1974.

**Peter Thacher** (deceased)

The Thacher Scholarship  
World Resources Institute  
10G Street, N.E. Suite 800  
Washington, DC 20002  
United States of America  
Tel: (202) 729 7600  
Fax: (202) 729 7610

An American environmentalist who was a member of his country's delegation to the 1972 Stockholm Conference. Later he was the Regional Director for UNEP in Europe where he initiated the Regional Seas Programme for the Protection of Marine Environments before becoming the Deputy Executive Director of UNEP. Mr. Thacher is now with the World Resources Institute, Washington DC.

**Dr. Anita Thorhaug**

Yale University and  
Greater Caribbean Energy and Environment Foundation  
1359 SW 22nd Terrace  
Miami, FL 33145  
United States of America  
Tel: (305) 858 0014  
Fax: (305) 285 9727  
E-mail: THORHAUG@msn.com

An American ecologist who has influenced many countries, including the United States of America, in developing policies and programmes for the conservation and restoration of coastal ecosystems. Her work on seagrass rehabilitation and management has helped developing countries on five continents where she has set up demonstration projects with the involvement of local people, especially fishermen and women. Her recent work on oil

spill clean-up with model projects in three continents caused IOC/UNEP to send her to the entire Gulf (ROPME sea) after the Kuwait war to assess damage to each nation of the Gulf. She has worked both with governments, universities and NGOs in developing countries in Africa, Latin America, the Caribbean, Asia and the Middle East on these problems.

**George H. Tomlinson**

C.P. 300 Ste. Anne De Bellevue  
Quebec H9X 3I7  
Canada  
Tel: (514) 457 6810

A former senior executive with a major Canadian pulp and paper firm, he was one of the first (1976) to sound the alarm concerning the impact of acid rain on forests and aquatic ecosystems. Dr. Tomlinson has been active and influential in industrial circles and the research community in efforts to reduce acid rain.

**UNEP/COM**

Novy Arbat St. Building. 1, Room 1821  
121019 Moscow  
Russian Federation  
Tel: (7095) 203 55 84 or 203 60 49  
Fax: (7095) 202 63 34  
E-mail: root@unepcomrus.mnts.msk.su

UNEP/COM is the USSR commission for UNEP. It consists of senior representatives from governmental organisations cooperating with UNEP. It was established 13 years ago to coordinate soviet links with UNEP and to supervise UNEP/Russia projects.

**Tsitsi Vangili**

64 Selous Avenue/Seventh Street  
P. O. Box US339  
Harare  
Zimbabwe  
Tel: (263) 726 910

As programme officer for the association of women's clubs in Zimbabwe, she has been responsible for afforestation programmes by women in rural Zimbabwe.

**Lily Venizelos**

Mediterranean Association to Save the  
Sea Turtles - MEDASSET,  
1c Licavitou Street  
106 72 Athens  
Greece  
Tel: (30 210) 361 3572/364 0389  
Fax: (30 210) 361 3572  
Email: medasset@hol.gr  
Web Site: www.medasset.gr, www.euroturtle.org/medasset,  
www.euroturtle.org

Lily Venizelos is the founder and president of Medasset, the Mediterranean association to save sea turtles - a unique organisation of experts working in this area. She has devoted the last decade to an international campaign to protect these ancient creatures throughout the Mediterranean. By unceasing lobbying of the Greek government, she has secured protective measures for caretta caretta in their most important breeding ground, on the island of Zakynthos. Through the media, writing articles and papers and attending symposia and conferences, she keeps the plight of these species in the public eye.

**Aminata Wade**

c/o Association des Soeurs-Unies Contre le Desert  
11 Avenue Briere de L'isle  
Dakar  
Senegal

Founder and the driving force behind an association of women's groups in Senegal working against desertification. The Association *des Soeurs-Unies Contre le Desert* supplies tree seedlings to villagers and carries out projects on water management and small-scale farming.

**Joe Walulya-Mukasa**

P. O. Box 4264  
Kampala  
Uganda  
Tel: (256-041) 349 296  
Fax: (256-041) 346 432  
E-mail: jeep@imul.com  
News@newvision.co.ug

Under his Chairmanship, the Joint Energy and Environmental Projects (JEEP) of Uganda started in 1985 a model village to promote self-sufficiency in food and fuelwood through agroforestry. Mr. Mukasa has championed tree-planting and desertification control in his country through public awareness campaigns.

**Wildlife Clubs of Kenya**

P. O. Box 20184  
Nairobi  
Kenya  
Tel: (254-2) 89 19 04  
Fax: (254-2) 89 19 06  
E-mail: iall@arcc.or.ke  
Web Site: www.unccd.int

Founded in 1968, WCK is a national non-governmental organisation involving more than 100,000 school children. It organises workshops, annual awareness week and has a mobile education unit which visits schools. The clubs also participate in environmental programmes such as tree planting.

**Paul Winter**

Earth Music Productions, LLC  
P.O. Box 72  
Litchfield, Connecticut 06759  
United States of America  
Tel: (860) 567 8796  
Fax: (860) 567 4276  
E-mail: PWCLMR@aol.com  
www.livingmusic.com

The popular American musician who has done much to promote environmental causes through his music.

**World Association of Girl Guides and Girl Scouts (WAGGGS)**

World Bureau, Olave Centre  
12c Lyndhurst Road  
London NW3 5PQ  
England  
Tel: (44-207) 794 1181  
Fax (44-207) 431 3764  
E-mail: wagggs@wagggsworld.org

A worldwide organisation actively involved in environmental projects and public awareness campaigns.

**Worldwide Fund for Nature (WWF)**

Ch. De Haes  
Avenue du Mont-Blanc  
Ch-1196 Gland  
Switzerland  
Tel: (4122) 364 91 11  
Fax: (4122) 364 42 38

Since its inception in 1961, WWF has invested over US\$330 million in more than 10,000 projects in 130 countries. Based on the best scientific evidence WWF actively supports on-the-ground conservation programmes in Africa, Asia, Europe, and Latin America. In all its work, WWF encourages ecologically sustainable development. Through its work, the fund has been able to save endangered species such as the giant panda and the Arabian oryx, and to protect many threatened species and habitats. WWF is extremely effective in raising public awareness of conservation problems and it has collaborated with governments, organisations and individuals in more than 1,000 conservation projects.

**Marinos Yeroulanos**

10 Lykiou Street  
106 74 Athens  
Greece  
Tel: (301) 7243944/7216600

Mr. Yeroulanos initiated environmental legislation and the first Environment Ministry of the Greek Government. He promoted national and regional environmental planning and introduced these considerations into government decision-making.

**Bruno Zehnder** (deceased)

A committed world leader in Antarctic conservation and an internationally celebrated photographer who, through the medium of photography, has brought into sharp public focus life in Antarctica and potential threats to the region.

**Zhen-Lin Zhang**

Liu Min-Ying Ecological Farm  
Da-Xing County  
Beijing 102600  
The People's Republic of China

As Head of the Liu Min-Ying Ecological Farm in China, Mr. Zhang has popularised biogas and solar energy in his community and initiated ecological farming using agricultural wastes for energy and fertilizer. Prominent progress has been made within the community's economy and environment. His work is a model for renewable energy development.

**Sekkou Zouha**

Ministere des Eaux et Forets  
Eaux et Forets  
Morocco  
E-mail: mnirit@athena.online.co.ma

A Moroccan forester and field director of a government desert control project in the draa valley. By providing seedlings, maintaining plantations and soil conservation works, Mr. Zouha kept sand dunes in check, greatly benefiting the 100,000 inhabitants of the valley.

## 1988 GLOBAL 500 LAUREATES

### **Beyene Abadi**

P. O. Box 2820  
Asmara  
Eritrea  
Ethiopia  
Tel: (251) 110 866

Mr. Abadi has planted and protected over 1,800 trees near his village of Senafe, Eritrea, to help meet local fuelwood needs. His achievement is an inspiration to similar communities in arid areas.

### **Yasin El Hag Abdin**

P.O. Box 253  
Khartoum  
Sudan  
Tel: (249) 452 377

Dr. Abdin initiated environmental legislation in Sudan and is a member of the National Committee for the Environment. He played a leading role in formulating the 1982 Red Sea and Gulf of Aden Convention for the nine states in the region on the management of marine resources. The Convention is part of UNEP's Regional Seas programme.

### **Adebayo Adeola**

P. O. Box 4185  
Ibadan  
Nigeria

Under his leadership the forestry association of Nigeria has successfully implemented community-based measures to combat desertification in northern Nigeria.

### **Yusuf J. Ahmad** (deceased)

An economist who has written extensively on environmental management. His economic models on environmental impact assessment, cost benefit analysis of environmental protection measures, risk and uncertainty analysis and the use of economic instruments have contributed to actions against the African environmental crises, particularly natural resources degradation and desertification.

### **Badria Abdullah Al-Awadi**

Regional Organisation for the  
Protection of the Marine Environment (ROPME)  
P. O. Box 26388  
Safat  
Kuwait  
Fax: (965) 532 4172

A lawyer who is very active in environmental protection. Since 1978 she has been the Secretary-General of the Kuwait Environmental Protection Society, a non-governmental organisation with the aim of promoting environmental awareness in Kuwait. She has conducted several research studies and published several books and more than 200 articles, mostly on environmental awareness.

### **Saeed Mohamed Al-Haffar**

Qatar University Environmental  
Studies Unit  
P. O. Box 2713  
Qatar  
Tel: (972) 89 22 48

Dr. Al-Haffar developed the basic environmental education curriculum which is now mandatory for all university students in Qatar. He has made 50 videos on environmental protection which are televised regularly in the gulf region where they have helped raise official and public awareness.

### **Irma Acosta Allen**

P. O. Box 135  
Mbabane  
Swaziland  
Tel: (268) 404 2376  
Fax: (268) 51840  
E-mail: szallen@iafrica.sz

Dr. Allen has been active in environmental education and public information in Swaziland since 1981 at the community, school and teacher training levels. She is a founder of *yonge nawe*, an organisation promoting conservation clubs in schools and communities, she also initiated and coordinates the "clean and beautiful Swaziland" campaign.

### **Mohamed Siad Barre**

Mogadishu Somalia Democratic Republic

Until 1990, the Somali Government, led by President Barre, carried out successful national afforestation, water conservation, and sand dune fixation programmes and introduced environment assessment into development planning. Since then this has collapsed in the face of drought, famine and civil war.

### **Dr. Michel Batisse**

9 Avenue Leonce  
Bucquet  
92380 Garches  
France  
Tel: (33-1) 45 68 40 51  
Fax: (33-1) 45 68 58 04  
E-mail: m.jardin@unesco.org

A senior environmental adviser to UNESCO and the French Government, Dr. Batisse has developed a number of international environmental programmes such as the Mediterranean Blue Plan, the Man and the Biosphere Programme (MAP), the international hydrological decade, and the arid lands project. He has promoted the concept of biosphere reserves and the world heritage convention, and has written extensively on environmental and natural resource issues.

**Idelisa de Calventi Bonnelly**

Guarocuya No. 90  
El Millon  
Santo Domingo  
Dominican Republic  
Tel: (809) 566 9816

A marine biologist in the Dominican Republic where she established one of the first marine research stations in the Caribbean. In 1986 she helped establish the silver bank humpback whale sanctuary to protect the largest north Atlantic population of this endangered species.

**Mohammad Ilyas Burney**

213/3 Ordnance Road  
Rawalpindi Cant.  
Pakistan  
Tel: (92-51) 583 405/568 696

Dr. Burney's research and field work in Pakistan on the guinea worm disease, which is spread by contaminated water and threatened 360,000 people in 400 villages, has eliminated the disease in pilot area villages and provided strategies for its eradication in Pakistan by 1989. A total of 106 cases in 35 villages were reported in 1991. Twenty-two villages had only one case each.

**Jimmy Carter**

Richard B. Russell Building  
75 Spring Street SW  
Atlanta, Georgia 30303  
United States of America  
Tel: (404) 221 3900

During his term as president of the United States (1977-1981) Mr. Carter initiated more positive environmental legislation than any other US president. Mr. Carter is a co-founder of "global 2000", which sponsors agricultural and health programmes in sub-Saharan Africa.

**Catherine Caufield**

19 Edith Street  
San Francisco  
California 941-33  
United States of America

An American journalist and author of *In the Rain Forest*, an influential and widely read book on tropical forests. Through her writings and lectures she promotes conservation and human rights.

**Centre for Science and Environment**

F6 Kailesh Colony  
New Delhi - 110048  
India

The Centre for Science and Environment published outstanding reports on the state of India's environment in 1982 and 1985. These "citizens' reports", based on grassroots information, serve as examples of national environment reports.

**Cetacean Society International**

P. O. Box 953  
Georgetown, CT 06829  
United States of America  
Tel: (203) 431 1606  
Fax: (203) 431 1606  
E-mail: rossiter@cswwhalesalive.org

The Cetacean Society International (CSI) is a small but influential NGO, which supports marine mammal conservation through its public awareness campaigns, education, and support for benign whale and dolphin research. CSI has volunteer representatives in more than 20 countries and encourages non-lethal sustainable use of cetacean resources through such activities as whale watching worldwide. It is active in the global plan of action for marine mammals.

**Gabriel L. Charles**

P. O. Box 1537  
Castries  
St. Lucia  
West Indies  
Tel: (809) 452 1167/809 452 5055

Mr. Charles has an outstanding record in environmental protection and awareness. He helped establish the Environmental Commission, which looks into environmental management in St. Lucia 1992. In 1986 he also helped establish the Beaches and Parks Commission which is responsible for the planning and maintenance of all beaches in St. Lucia as well as parks in 1986. Mr. Charles was the founder of the St. Lucia Naturalist Society, an NGO responsible for environmental education and awareness, and protection of wildlife in the Caribbean. He is also one of the founder members of the Caribbean Foresters' Society with responsibility for the improvement of the regional environment.

**Conservation International**

1919 M. Street, NW, Suite 600  
Washington DC 20036  
United States of America  
Tel: (202) 912 1000  
Web site: www.conservation.org

Ms. Ortiz developed and arranged the historic first "debt for nature swap" with the Bolivian Government, which agreed in 1987 to conserve 3.7 million acres of tropical forest and grasslands in exchange for retirement of part of its foreign debt. Conservation International, a Washington-based environmental organisation, for which Ms. Ortiz is the Bolivian programme director, negotiated the financing of the exchange and will assist Bolivia in management of the reserve.

**Jacques-Yves Cousteau (deceased)**

The Cousteau Society  
870 Greenbrier Circle, Suite 402  
Chesapeake, VA 23320  
United States of America  
Tel: (800) 441 4395  
E-mail: cousteau@cousteausociety.org

Commandant Cousteau, a distinguished marine explorer and inventor of deep-sea diving equipment. He pioneered conservation of marine resources worldwide through his writings, lectures and award-winning films.

**Czech National Union of Nature**

Protection Activists  
 Staromestske Nam. 12  
 Prague  
 Czechoslovakia  
 Tel: (420) 23 10 142

Founded in 1979, the Union is involved in management of protected areas. It publicises environmental problems and promotes awareness through its popular monthly journal, *Nasi Prirodou* (our country's nature).

**Sheila Gwennifer Davis** ("Gwenny")

Maruia Society  
 Crewenna, Wakapuaka  
 Rdi Nelson  
 New Zealand  
 Tel: (643) 545 1122

President of the Maruia Society. Her campaigns helped obtain protective legislation for indigenous forests and reform of the mining laws.

**Andreas Demetrios Demetropoulos**

Fisheries Department  
 Ministry of Agriculture and Natural Resources  
 P. O. Box 4281  
 Nicosia  
 Cyprus  
 Tel: (357-2) 307 3279  
 Fax: (357-2) 365 955

Mr. Demetropoulos successfully campaigned for the establishment of Cyprus' first national park in the Akamas peninsula in 1986 and the protection of breeding grounds for the endangered green and loggerhead turtles. In 1989 new regulations under the fisheries legislation were approved by government and the house of representatives, protecting about 10 km of coastline incorporating the much-coveted turtle nesting beaches of Lara and Toxeftra in the Akamas.

**Dominica Conservation Association**

59 King George V Street  
 Roseau  
 Commonwealth of Dominica  
 Tel: (809) 448 4098  
 Fax: (809) 448 7906

A non-profit-making NGO involved in education, organisation and promotion of participation in the judicious management and development of Dominica's natural, cultural and economic resources through appropriate conservation measures, to preserve and enhance the nation's heritage and improve the standard of living for present and future generations.

**Paljor Dorje**

Permanent Mission of the Kingdom  
 of Bhutan to the UN Geneva  
 17-19, Chemin Du Champ-D'anier  
 1209 Geneva  
 Switzerland  
 Tel: (4122) 798 7971  
 Fax: (4122) 788 2593

Mr. Dorje was the Ambassador, Permanent Representative of the Kingdom of Bhutan to the United Nations. He relinquished his post as Chief Justice in 1988 and became Deputy Minister in the

Ministry of Social Services until April 1991. He successfully campaigned with the Royal Government for the Bhutan Trust Fund for the Conservation of Nature with the participation of the Global Environment Facility (GEF), World Wildlife Fund (WWF-USA) and the Royal Netherlands Government. The Trust Fund was functional from March 1991. He continues to be an active campaigner in the protection of Bhutan's fragile and endangered biodiversity. He established the Royal Society for the Protection of Nature, the first NGO in Bhutan concerned with environmental awareness and conservation of endangered species and migratory birds. He successfully campaigned for the protection of wintering sites for the endangered black-necked cranes.

**Gerald Durrell** (deceased)

Durrell Wildlife Conservation Trust  
 Les Augrés Manor, La Profonde Rue  
 Trinity, Jersey JE3 5BP  
 English Channel Islands  
 United Kingdom  
 Tel: (44-01534) 860 000  
 Fax: (44-01534) 860 001  
 E-mail: info@durrellwildlife.org  
 Web site: www.durrellwildlife.org

Mr. Durrell was, for 30 years, one of the world's leading conservationists. In his books and television films he has promoted conservation of wildlife globally. The Jersey Wildlife Preservation Trust, which he founded, is noted for its exemplary work in captive breeding of endangered species and for its international training centre, whose aim is to give basic training so that students may advance the cause of endangered species work and conservation in their own countries.

**Olfat Dessouky El-Sebaie**

165 El-Horryia Avenue  
 Alexandria  
 Egypt  
 Tel: (203) 521 5575/586 3851  
 Fax: (203) 421 8436

Dr. El-Sebaie, professor and chairman of the Environmental Health Department, Alexandria University, has conducted research and field work for 22 years in Egypt on water quality, environmental health, solid waste management, hazardous wastes, women and environment and village sanitation. She is serving the community through her membership in the drinking water authority board, ministerial committees and governmental committees on environmental pollution. In the Monofia Governorate her recommendations led to action to ensure safe drinking water supply for villagers. She also produces regular television programmes on health and the environment. At present she is working with the ministry of health on a project funded from USAID dealing with the impacts of supplying rural areas with water and sanitation on schistosomiasis transmission.

**Dr. Joseph C. Farman**

British Antarctic Survey  
Cambridge  
United Kingdom  
Tel: (44-01223) 221 400  
Fax (44-01223) 362 616  
Web site: www.antarctica.ac.uk  
or

**Alice Larkin**

Press Officer  
Institute of Physics  
Tel: (44-0207) 470 4800  
Fax: (44-0207) 470 4848  
Email: alice.larkin@iop.org)

Dr. Farman, a meteorologist with the British Antarctic Survey, is a leading researcher into the depletion of the ozone layer. His research contributed significantly to the scientific base of the 1987 Montreal Protocol to restrict chemicals which damage the ozone layer that protects life on earth from excessive ultra-violet radiation from the sun.

**Anwar Fazal**

P.O. Box 1117  
10840 Penang  
Malaysia  
Tel: (6-04) 658 4816  
Fax: (6-04) 657 2655  
E-mail: secr@waba.po.my  
anwar.fazal@undp.org

Anwar Fazal has actively promoted environment and health issues, and campaigned against pesticide and drug misuse during his term as President of the International Organisation of Consumer Unions (IOCU) and Chairman of the Environmental Liaison Centre International (ELCI). He has initiated "people's trans-actions", an institute through which he supports the linking and multiplying of citizen power globally on environmental issues.

**Garoua College of Wildlife**

Ecole de Faune  
BP 271  
Garoua  
Cameroon  
Tel: (237) 989 0225/227 3135/227 11215  
Fax: (237) 227 3135/227 2022  
E-mail: ecolefaunegarous@iccnnet.cm

Since its establishment in 1970, the college has trained over 500 graduates in wildlife management. They now occupy key conservation positions in Africa.

**Franjo Gasparovic**

Kraljevac 14  
4100 Zagreb  
Yugoslavia  
Tel: (38) 273 192

A Yugoslav engineer who coordinated the Yugoslav Adriatic coast project between 1967 and 1978, Mr. Gasparovic helped establish and promote the Mediterranean Action Plan and has contributed to environmental management and sound urban planning at the international level.

**Maumoon Abdul Gayoom**

The President's Office  
Male  
The Republic of Maldives

President Maumoon Abdul Gayoom has encouraged research on the increase of atmospheric carbon dioxide and sea level rise. He has publicised the climate change issue locally and internationally, beginning with his address on the subject to the United Nations General Assembly in 1987. Subsequently, he has drawn global attention to the subject through many of his press interviews and statements at regional and international forums culminating in his address to the 1992 United Nations Conference on Environment and Development.

**Theodore Geisel (deceased)**

An American writer of more than 40 children's books. His book, *The Lorax*, published in 1972, is an inspiring cartoon story on how over-exploitation leads to environmental degradation. The Lorax is popular among children worldwide and has been translated into several major languages.

**Dr. Murray Gell-Mann**

Santa Fe Institute  
1399 Hyde Park Rd.  
Santa Fe, NM 87501  
United States of America  
Tel: (505) 984-8800  
E-mail: mgm@santafe.edu

Dr. Gell-Mann was a 1969 Nobel Laureate for Physics and is Chairman of the World Resources and Environment Committee of the J. D. and C. T. MacArthur Foundation, Chicago, which has channelled over US\$100 million into work related to international conservation.

**Greenpeace International**

Keizersgracht 176  
1016 DW Amsterdam  
The Netherlands  
Tel: (31 20) 523 62 22  
Fax: (31 20) 523 62 00  
E-mail: supporter.services@ams.greenpeace.org  
or

**Greenpeace**

Canonbury Villas  
London, N1 2PN  
United Kingdom  
Tel: (44-207) 865 8100  
Fax: (44-207) 865 8200  
E-mail: info@uk.greenpeace.org  
supporter@uk.greenpeace.org

The world's leading activist environmental NGO specialising in direct action. For 20 years it has led campaigns to protect marine mammals and the Antarctic, oppose Pacific nuclear testing, and prevent marine pollution, and has been active in many other environmental issues.

**Miguel Grinberg**

Promundo Internacional  
Casilla 60 - Suc. 14  
1405 Buenos Aires  
Argentina  
Tel: (541) 343 4377  
Fax: (541) 334 7802  
E-mail: grinberg@arnet.com.ar

A journalist and the author of several books, who has promoted environmental awareness influencing public opinion on the environment in Argentina through his writings and radio-TV programmes. As an educator he has developed the concept of social ecology applied to the creation of "green ways of living", creating both in his country and in Brazil an experimental college: the "eco-multiversity".

**Paul Harrison**

World Pantheist Movement  
29a Nassington Road  
London NW3 2TX  
United Kingdom  
Tel: (44-207) 794 6921  
Fax: (44-207) 794 6921  
E-mail: harrison@dircon.co.uk

The author of seven books on environment and development. *The Greening of Africa*, published in 1986, has become an influential text on sustainable development and a practical handbook for the environment and development movements in Africa and elsewhere. His latest *The Third Revolution* is a new synthesis and analysis of population/environment links.

**Ivan L. Head**

International Development Research Centre  
P. O. Box 8500  
Ottawa, Ontario K1G 3H9  
Canada  
Tel: (613) 996 2321

President of The International Development Research Centre, a leading Canadian organisation in environment and development research which is aiding developing countries in land reclamation and management of river basins and arid areas.

**Catherine Hicks**

Cetacean Society International  
P. O. Box 343  
Plainsville, CT 06062-0343  
United States of America  
Tel: (203) 793 8400

Ms. Hicks uses her status as a popular actress to raise funds for marine mammal conservation through public appearances and seminars, working closely with the Cetacean Society International. She portrayed a marine biologist in the film *Star Trek VI: The Voyage Home*.

**Martin Wyatt Holdgate**

IUCN Secretariat  
Rue Mauverney 28  
Ch-1196 Gland  
Switzerland  
Tel: (41-22) 999 0001  
Fax: (41-22) 999 0002

A distinguished scientist and administrator who has made significant contributions to the protection of the British and global environment. He played a leading part in the establishment of the first conservation measures for Antarctica, led scientific research on nature conservation in Britain, and was Chief Environment Scientist and Deputy Secretary (Environment Protection) in the UK Department of the Environment from 1976 to 1988. He led UK delegations to the preparatory committee for the Stockholm Conference, and played an active part in the UNEP Governing Council, of which he was president in 1983-84. He has been Director General of IUCN - the World Conservation Union - since April 1988. He was elected interim president of the Global 500 Forum at a meeting in Rio de Janeiro in June 1992.

**Victoria Husband**

P. O. Box 10, Rr#5  
Durrance Road  
Victoria BC  
Canada V8X 4M6  
Tel: (604) 386 5255/478 0388  
Fax: (604) 386 4453

Currently the chair of the Sierra Club of western Canada. She is also one of Canada's leading environmentalists, trying to save British Columbia's ancient forests and wildlife from destructive clearcut logging practices. Ms. Husband is also looking toward bringing new legislation to protect the province's environment and more specifically its biological diversity. In 1988 Ms. Husband was instrumental in getting the Khutzeymateen grizzly bear sanctuary protected. She often speaks publicly to educate different groups and to promote international recognition of the problem.

**Institute of Desert Research**

Academia Sinica  
Lanzhou  
People's Republic of China  
Tel: (86) 26725

Since its establishment in 1978, the Institute has carried out pioneer research in desertification control using sand dune fixation, stabilisation by afforestation and chemical means, irrigation and dry cultivation of plants on sand dunes.

**International Youth Federation (IYF)**

Ronald Ngala Street  
P. O. Box 8714  
Nairobi  
Kenya

IYF promotes environmental awareness and mobilises youth worldwide in natural resource conservation through its global network of member organisations in five continents.

**INUIT Regional Conservation Strategy for the Arctic**

P. O. Box 280  
Kuujuuag  
Quebec JOM 1C0  
Canada  
Tel: (819) 964 2341

A project by indigenous grassroots organisations in Canada, the US and Greenland for environmental management of part of the Arctic circumpolar region, an area of two and a half million square miles. It is an example of the world conservation strategy in action.

**David Edward James**

13 Rayner Road  
Whale Beach  
New South Wales 2107  
Australia  
Tel: (612) 9974 5450  
Fax: (612) 9974 1341  
E-mail: Ecoserve@ozemail.com.au

An Australian economist noted for his pioneer work in environmental impact assessments and natural resource management incorporating economic principles.

**Peter Jones**

Green Umbrella Limited  
The Production House  
147 St. Michael's Hill  
Bristol BS5 8DB  
United Kingdom  
Tel: (44-272) 731 729  
Fax: (44-272) 467 432

Peter Jones recently left the BBC, where he was executive producer of series such as "the natural world" and "the trials of life". These highly acclaimed and popular natural history programmes helped spread conservation awareness worldwide. He intends to continue making such films as an independent filmmaker.

**Shcou-Bah Kabbah**

14 Lebbie Street  
P. O. Box 108  
Bo Town  
Sierra Leone

Mr. Kabbah is a Sierra Leonean community worker who has established village development councils which implement grassroots water and sanitation projects in rural areas.

**Aila Inkerö Keto**

Australian Rainforest Conservation Society  
19 Colorado Avenue  
Bardon  
Queensland 4065  
Australia  
Tel: (617) 3369 1318/3369 6352  
E-mail: arcs@gil.com.au

An Australian scientist and president of the Queensland Rainforest Conservation Society, Ms. Keto successfully lobbied for the designation of North Queensland rain forests as a world heritage site, and for government grants to the Australian Rainforest Conservation Programme.

**Li Shuangliang**

Taiyuan Iron and Steel Plant  
Taiyuan Shanxi Province  
People's Republic of China  
Tel: (86) 313 941

A Chinese technician who "greened" factory garbage dumps in Taiyuan between 1985 and 1987, recycling eight million tonnes of wastes for construction materials. His work is a model in land reclamation.

**Andrew and Kate Lipkis**

12601 Mulholland Drive  
Beverly Hills  
California 90210  
United States of America  
Tel: (818) 753 4600  
Fax: (818) 753 4625  
E-mail: alipkis@treepeople.org

Mr. Kipkis founded the "Treepeople" organisation in Los Angeles in 1973. This community movement has planted more than one million smog-resistant trees and promotes tree planting by citizens' groups.

**Dr. Pierre D. Malychef (deceased)**

A Lebanese pharmacist and ecologist who has documented rare medicinal plants and is active in pollution control, afforestation and general engineering of high yield wheat varieties.

**Mare Vivo**

Viale G Cesare 2  
00192 Rome  
Italy

An Italian NGO concerned with marine pollution. Through its highly publicised *floating plastic hunts* Mare Vivo is helping to clean up coastal waters and focus public attention on marine pollution.

**Abdelwaheb Marrakchi**

11 Rue Ali Bach Hamba.  
C.P. 3000  
Sfax  
Tunisia  
Tel: (216-4) 21920/36894

Mr. Marrakchi, forestry engineer and regional head of Sejenane, Medenine Kairouan, Jendouba forestry divisions and of Sfax, has made many practical contributions, namely in preservation and promotion of forests in the north of Tunisia and in desertification especially in sand dune fixation, pasture improvement and soil erosion control and fixation in several arid regions of Tunisia.

**Dr. Bruno Messerli**

Universitat Bern  
Hallerstrasse 12  
Ch-3012 Bern  
Switzerland  
Tel: (41-31) 65 80 19  
Fax: (41-31) 65 85 11

Dr. Messerli has researched and written extensively on the mountains of Africa, the Himalayas, the Andes, the Mediterranean region and the Alps and mountain ecology and climate change. He is the Chairman of the International Geographical Union's

Commission on Mountain Ecology and a member of an international task force of scientists who brought forward the mountain chapter into Agenda 21 of UNCED 92. He is a former rector of the University of Berne, and winner of several scientific awards.

#### **T. Muller**

Department of Research and Special Services  
Ministry of Agriculture  
P.O. Box 8100  
Causeway  
Harare  
Zimbabwe

Mr. Muller established in 1962, a 68-hectare botanical garden on the outskirts of Harare, which has replicas of every major ecosystem in Zimbabwe. The garden has important aesthetic and academic values. In 1987 he added a small vegetation survey unit to the National Herbarium and Botanic Garden with the aim of classifying and mapping the vegetation of Zimbabwe and making recommendations for biodiversity reserves. He also carried out a detailed ecological survey of the approximately 80 km of rainforest, which occurs in Zimbabwe and made recommendations regarding its conservation.

#### **Norman Myers**

Upper Meadow, Old Road, Headington  
Oxford OX3 9SZ  
United Kingdom  
Tel: (44-1865) 750 387  
Fax: (44-1865) 741 538  
E-mail: myers1n@aol.com  
normanmyers@gn.apc.org

An environmental scientist whose research and other work over the past three decades has focussed public attention and political leadership on critical environmental issues. He has written numerous articles and books, which have influenced public opinion and policy in favour of the conservation of ecosystems and natural resources throughout the world.

#### **Mr. Phisit Na-Patalung**

71 Pharam 5 Road Dusit  
Bangkok 10300  
Thailand  
Tel: (662) 281 0021  
Fax: (662) 280 7699  
E-mail: zpo@mazartint.co.th

As Secretary-General of Wildlife Fund - Thailand, Phisit Na Patalung has provided exemplary leadership in public awareness and implementation of wildlife and natural resource conservation projects, particularly among villagers in his country.

#### **Natural Resources Defense Council (NRDC)**

1350 New York Avenue, NW Suite 300  
Washington DC 20005  
United States of America  
Tel: (202) 783 7800

NRDC is a leading international NGO specialising in environmental management. Using its scientific, legal and political expertise, the council campaigns for the conservation of ecosystems and wildlife, and lobbies for safe technology transfer to developing nations.

#### **Professor Hideo Obara**

Nakano-ku, Kamisaginomiya 3-13-1, A1  
Tokyo 165 0031  
Japan  
Tel: (8133) 999 0361  
Fax: (9133) 926 7502  
E-mail: obara@col.tokyoseitoku.ac.jp

An eminent zoologist who for over 40 years has been active in conservation and public education. He is the author of more than 60 books and papers on mammals and is a leading campaigner against whaling in Japan and abroad. He has held many responsible positions as a volunteer: Chairman of TRAFFIC-Japan; board member of WWF-Japan (Chairman of Conservation Committee); Director General of the Nature Conservation Society of Japan; Representative Board Member of Japan Environmental Council and Region Vice-Chairman of SSC, IUCN.

#### **Oficina Nacional de Evaluacion de Recursos Naturales (ONERN)**

Los Petirrojos 355  
Urb. El Palomar, San Isidro  
Lima  
Peru  
Tel: (51) 41 04 25/41 46 06

For the past 25 years ONERN, a government department, has promoted training and development of new technologies for integrated natural resources management in Peru.

#### **Shigeyuki Okajima**

The Yomiuri Shimibun  
1-1-1-408 Kamatahoncho  
Ohtaku, Tokyo  
Japan  
Tel: (813) 734 8223

A leading Japanese journalist who has for 10 years been active in conservation and anti-pollution movements. During 1986 and 1987, through his newspaper, the *Yomiuri Shimibun*, he conducted major information campaigns on global environmental issues. Mr. Okajima was coordinator and chairman of the 1987 Tokyo international journalists symposium on the environment.

#### **Perez Olindo**

Chairman  
African Elephant Foundation International (AEF-I)  
P.O. Box 50556  
Nairobi, Kenya  
Tel: (254-2) 215 887  
Fax: (254-2) 713 342  
E-mail: perezolindo@yahoo.com

Dr. Olindo, who was the Director of the Kenya Wildlife Conservation and Management Department, is an outstanding and courageous administrator in wildlife and national parks management. He faced political and commercial pressures while strengthening conservation policies and practices in Kenya. Dr. Olindo has over the years served as the Vice-Chairman of the International Commission on National Parks and Protected Areas; and also as Vice-Chairman of the World Conservation Union's Species Survival Commission. Since 1989, Dr. Olindo, a Senior Associate at the African Wildlife Foundation, has worked in the area of Public Policy on the Conservation of the African elephant throughout the 38 African elephant range states.

**Maria Teresa Ortiz**

c/o Conservation International  
1015, 18th Street NW, Suite 1000  
Washington DC 20036  
United States of America  
Tel: (202) 429 5660  
(Joint Award - See Conservation International)

Ms. Ortiz developed and arranged the historic first “debt for nature swap” with the Bolivian Government, which agreed in 1987 to conserve 3.7 million acres of tropical forest and grasslands in exchange for retirement of part of its foreign debt. Conservation International, a Washington-based environmental organisation, for which Ms. Ortiz is the Bolivian programme director, negotiated the financing of the exchange and will assist Bolivia in management of the reserve.

**Krishnakumar Panday**

c/o R. Panday  
GPO Box 4486  
Kathmandu  
Nepal  
Tel: (977 1) 521 801/977 1 523 998  
Fax: (977 1) 522 633

The author of the book *Fodder Trees and Tree Fodder in Nepal*, and founder of “Jara Juri”, a trust established to give recognition to the efforts of grassroots groups in forest conservation and involve them in environmental protection and self-reliant development. The movement has widely publicised the successful efforts of the inhabitants of many Nepalese villages and encouraged much-needed policy changes for environmental protection in Nepal.

**Park Ro-Kyeong**

202 -19 Dai Jo Dong  
Eoppyeong Ku  
Seoul  
Republic of Korea

Mr. Park Ro-Kyeong contributed much to environmental preservation in Korea by writing about 450 articles on the environment from 1968 to 1986 in the *Cho-Sun* and *Kyung-hyang* daily newspapers. He wrote a “Study on Public Nuisance in Pusan City” in 1968 and presented “Industrial Policy and Environmental Preservation Measures” at a seminar organised by the Red Cross in 1973 and “Reform Measures of Environmental Administration” at a seminar organised by Seoul City in 1977. He also wrote several editorials on the environment in weekly and monthly magazines and gave lectures on environmental protection to the Red Cross, YMCA, Consumer and Teacher Associations and at meetings of the health and social affairs departments of the National Assembly. Mr. Park has contributed in-depth articles on the environment as a freelancer after retiring at the end of 1986. In addition, he took the initiative in establishing a Global 500 Club in Korea.

**Karl Partsch**

c/o Alpen -Und Europaburo  
Sudetenstr. 17  
D-8972 Sonthofen  
Germany  
Tel: (49) 8321 84561  
Fax: (49) 8321 84512

Mr. Partsch, a high school biology teacher, has mobilised citizens, especially young people and students, in reforesting denuded alpine areas to control flood and soil erosion. He has used the media extensively for his campaigns. Since 1989 he has been a Member of the European Parliament. As a full member of the Committee on the Environment, Public Health and Consumer Protection, he continues his work for the protection of the environment.

**Dina Iosifovna Protsenko**

United Kingdomrainian SSR State Committee On  
Environmental  
Protection  
Sadovaya Street 3  
Kiev  
Russia  
Tel: (7) 220 2428

Under her leadership the United Kingdomrainian SSR State Committee on the Environment has implemented sound integrated development programmes and raised public awareness of environment issues.

**Valentin Rasputin**

Irkutsk  
Russia

A popular Russian author and journalist whose articles on the environment have appeared in many newspapers and periodicals with wide political and public influence, particularly on the conservation of Lake Baikal.

**Dr. Terence Evezard Reilly**

P.O. Box 311  
Malkerns  
Swaziland  
Southern Africa  
Tel: (268) 528 2013  
Fax: (268) 528 3924  
E-mail: reillys@biggame.co.sz  
Web: www.biggame.co.sz

Dr. Reilly established Swaziland’s first nature reserve in 1961 on his own initiative and at his own expense. He has since established two more, including a refuge for endangered species.

**Bruce Rich**

1510 P Street NW Apt.1  
Washington DC 20005  
United States of America  
Tel: (202) 234 5084  
Fax: (212) 505 2100

A US attorney who has successfully lobbied for the introduction of environmental criteria in international aid. Mr. Rich has highlighted the ecological impacts of Multilateral Development Bank loans to developing countries and was instrumental in the US Congress vote against unsound dam projects in Brazil.

**Dr. Celso Roque**

The Haribon Foundation  
3rd Floor - Liberty Building  
835 Pasay Road  
Makati  
Metro Manila  
Philippines  
Tel: (63-2) 851 956

A senior official in the Ministry of Environment and Natural Resources, Dr. Roque has long been an active campaigner for environmental protection. During his leadership, the Haribon Foundation expanded in scope and influence, becoming the most influential environmental NGO in the Philippines.

**F. Sherwood Rowland**

University of California  
Department of Chemistry  
Irvine, California 92717  
United States of America  
Tel: (714) 856 6016

Professor Rowland and his colleague, Professor Mario J. Molina, were the first to identify the threat the commonly used chlorofluorocarbons (CFCs) to the earth's stratospheric ozone layer, which protects life on earth from excessive ultraviolet radiation. This work contributed significantly to the scientific base of the 1987 Montreal Protocol to restrict chemicals which deplete the ozone layer. Professor Rowland's further measurements of CFCs, methane and other atmospheric trace gases furnish important information relating to possible future changes in the global atmosphere.

**Rauno Ruuhijarvi**

Department of Botany  
University of Helsinki  
Fabianinkatu 24a  
SF-00100 Helsinki  
Finland  
Tel: (358 0) 191 2010

A botanist who has been responsible for improving environmental education and research in Finland. He initiated conservation of peatlands and played a leading role in the creation of Finland's national parks and other protected areas. Professor Ruuhijarvi has written several books and numerous articles on conservation. He has worked for a long time as President of the Finnish Association for Nature Protection.

**Pablo Sanchez**

c/o A. Kohler  
UNEP Project/Andean Ecosystem  
Cajamarca  
Peru

Mr. Sanchez has researched widely on soils and climate and initiated grassroots projects in the Cajamarca region of the Andean Mountains. The projects blend his research findings and appropriate technology with traditional farming systems.

**Dr. Colette Serruya**

Israel Oceanographic and  
Limnological Research Inc.  
P. O. Box 8030  
Haifa  
Israel  
Tel: (972-4) 515 202

Dr. Serruya has done extensive research and monitoring of Lake Kinneret (The Sea of Galilee), Israel's only fresh water reservoir, which supplies one third of the country. She was awarded the Israel environment prize in 1979 in recognition of her contributions to fresh water management.

**Seychelles Islands Foundation**

Independence House  
P. O. Box 853  
Mahe  
Seychelles  
Tel: (248) 224 030  
Fax: (248) 225 131  
E-mail: sif@seychelles.net

Since 1979, the Foundation has successfully managed the Aldabra Atoll in the Indian Ocean, a world heritage site with many giant tortoises and flightless birds. The Atoll is also an important breeding ground for the endangered green turtles and frigate birds.

**Shanyi Village**

Xiaoshan City  
311212 Zhejiang Province  
People's Republic of China  
Tel: (86) 05812 684968

Shanyi Village, a community of 3000, between 1984 and 1987 made major energy savings by the introduction of improved cooking stoves and biogas. It reforested its environs, and improved water supply and housing.

**Otto Soemarwoto**

Padjadjaran University  
21 Jl Imam Bonjol  
Bandung  
Indonesia

An Indonesian scholar whose research has broadened understanding of the intricate relationships between population, resources, environment and development.

**Vladimir Evgenievich Sokolov**

USSR Academy of Science Institute of  
Evolutionary Morphology and  
Ecology of Animals (Iemea)  
Leninsky Prosp. 33  
Moscow  
Russia  
Tel: (7095) 232 20 88

An influential Russian academician and administrator who has written more than 400 scientific papers on ecological morphology. Mr. Sokolov has made significant contributions to Russian conservation.

**Song Hak Yun**

Forest Management Office  
Kowon County  
South Hanikyong Province  
Democratic People's Republic of Korea  
Tel: (82) 23824

Mr. Song initiated a grassroots campaign to restore 27,000 hectares of denuded mountain forest, thus protecting important watersheds and helping local communities meet their needs for firewood and other forestry products.

**Victoria Sotiriadou**

Prime Ministers's Office  
Davaki  
73 Babagou  
Athens 15669  
Greece  
Tel: (301) 652 2470/364 1954

Dr. Sotiriadou has made important contributions to research on inner city rehabilitation. She has considerable influence on environmental policy in Greece and has represented her country in international environmental organisations.

**James G. Speth**

World Resources Institute  
Suite 700  
1709 New York Avenue NW  
Washington DC 20006  
United States of America  
Tel: (202) 638 6300  
Fax: (202) 638 0036

Mr. Speth has a long and distinguished career in environmental work. He is the president of the World Resources Institute - an influential policy research centre that he co-founded in 1982. In 1970, he helped found the Natural Resources Defense Council, where he served as a senior attorney. From 1978 to 1981, he served as chairman of the council on environmental quality in the executive office of the president.

**Irina Vasilevna Springuel**

Faculty of Science  
South Valley University  
81528 Aswan  
Egypt  
Tel: (209-7) 481550  
Fax: (209-7) 480448,  
E-mail irina44@yahoo.com

Ms. Springuel has since 1977 conducted research on vegetation in the Egyptian desert, and studies on the ecosystem of the first cataract islands at Aswan, which led to their legislative protection in 1986.

**Chamlong Srimuang**

City Hall  
Bangkok Metropolitan Administration  
Din So Road  
Bangkok 10200  
Thailand  
Tel: (662) 222 7814

As Governor of Bangkok, Mr. Srimuang has achieved urban improvements through anti-pollution regulations, health campaigns, and the creation of "green" areas. His achievements are models for many city administrators.

**Anna Teixeira**

Rua Marques De Angeja 150  
Alcabideche  
2765 Estoril  
Portugal  
Tel: (351) 362 0100

For the past 13 years, Ms. Teixeira has lobbied industry for sound environmental management. She is the secretary general of CAIPA, a Portuguese NGO concerned with promoting sustainable development.

**Normita Thongtham**

10/1 Soi Prasartsuk  
Yenakart Road  
Thungmahamek  
Bangkok 10120  
Thailand

The environmental correspondent for the *Bangkok Post*, Thailand's leading English language newspaper since 1977. Her concern for the environment prompted her to write in her free time and for the past 10 years she has been writing on environmental issues in her "nature notebook" column in the *Bangkok Post's* Sunday extra. She has increased public awareness of local and international environmental problems through her articles.

**Sione Latuila Tongilava**

P. O. Box 5  
Nuku'afola  
Tonga  
South Pacific  
Tel: (676) 23210

A senior official of the Government of Tonga who has helped establish two forest reserves, five marine parks, and introduced the use of solar power to replace diesel generators which were polluting lagoons. He has trained environmental workers in Tonga and drafted environmental and land use legislation, which became law in 1983.

**Edward L. Towle**

6296 Estate Nazareth No. 11  
St. Thomas USVI 00802-1104  
Barbados  
Tel: (809) 775 6225  
Fax: (809) 779 2022

Dr. Towle established the island resources foundation in 1971 to promote sound management of island ecosystems. He was the founder president of the Caribbean Conservation Association. Dr. Towle works mainly with young people in his environmental programmes.

**Foune Traore**

c/o Ministry of State for Rural Development  
Boite Postale 4055  
Dakar  
Senegal  
Tel: (221) 23 10 88

Ms. Traore has initiated and mobilised women's groups in afforestation and desertification control in Senegal, thus contributing to food and energy self sufficiency in marginal areas.

**Turkish Association for Conservation of Nature**

and Natural Resources  
Menekse Sokak  
No. 29/94 Kizilay  
46400 Ankara  
Turkey  
Tel: (904) 25 19 44

A Turkish NGO active in public awareness programmes, afforestation and lobbying against industrial pollution.

**Richard A. Vollenweider**

National Water Research Institute  
P. O. Box 5050  
Burlington Ontario L7R 4A6  
Canada  
Tel: 416 632 8052

An eminent aquatic biologist whose research on eutrophication has been important in conserving the great lakes of north America, and lakes worldwide. Collaborating with OECD, WHO, PAHO, UNEP, ILEC, he has made outstanding contributions to sustained management of aquatic ecosystems. He is actively involved in the research of eutrophication of the Adriatic Sea and the Mediterranean, and the protection of these seas from further degradation.

**Gilbert F. White**

Institute of Behavioural Sciences  
University of Colorado  
P. O. Box 482  
Boulder Colorado 80309  
United States of America  
Tel: 303 429 6315

A renowned geographer and scientist whose work has increased international understanding of natural and technical hazards, and the impacts of nuclear war.

**David Wingate**

10 Elm Lodge  
Harbour Road  
Warwick  
Bermuda  
Tel: (809) 298 1282

For the past three decades Dr. Wingate, a zoologist, has implemented many conservation projects in Bermuda. In 1962 he restored Nonesuch Island by planting 6,000 indigenous trees and shrubs, thus creating a "living museum". His work on oceanic birds and the reintroduction of the green turtle in Bermuda has earned him international recognition.

**World Assembly of Youth (WAY)**

Ved Bellahoj 4  
Copenhagen  
Denmark  
Tel: (451) 607 770

WAY is the coordinating committee of national youth councils and youth organisations which has helped to increase environmental awareness among youth worldwide as well as assisting to implement UNEP's youth environmental agenda.

**World Organisation of the Scout Movement**

Rue du Pre-Jerome 5  
Case Postale 241  
Ch-1211 Geneva 4  
Switzerland  
Tel: (41 22) 320 42 33  
Fax: (41 22) 781 20 53

The Scout Organisation has a long history of efforts to protect natural environments and teach conservation to millions of young people all over the world. The organisation has recently begun active cooperation with UNEP to strengthen these activities throughout its global organisation.

**Davi Kopenawa Yanomami**

c/o Fundacao Nacional do Indio  
Funai Seup/Sul Q.702  
Bia Ed. Lex 3o Andar S/316  
70330 Brasilia DF  
Brazil

The tribal leader of the 9,000-strong Yanomami community in Roraima, northern Brazil. He has campaigned for 10 years for legislative protection of Yanomami territory - an area of nine million hectares of tropical forests, lakes and mountains. This area is not only an important cultural heritage, but one of the world's largest "banks" of genetic diversity.

**Nicholas Zalaoras**

52 Xanthou  
14232 Athens  
Greece  
Tel: (301) 275 0763

A prominent Greek journalist who has written extensively in newspapers and magazines on a wide range of environmental issues such as acid rain, pollution and endangered species. In 1991, he wrote the book *The forest: the Silent Tragedy or the end of Life*. He also works as press officer of WWF Greece.



## 1989 GLOBAL 500 LAUREATES

### **Nijaz Abadzic**

Glise Jankovica 2/11  
71210 Ilidza-Sarajevo  
Yugoslavia  
Tel: (3871) 622 953/461 516

Mr. Abadzic, a leading Yugoslav journalist, produces the popular TV series "living with nature". This has covered over 350 topics since 1982 and promotes public awareness of environmental issues.

### **Martin Abraham**

c/o International Organisation of Consumer Unions (IOCU)  
P. O. Box 1045  
10830 Penang  
Malaysia  
Tel: (604) 371 396/371318  
Fax: (604) 366 506  
E-mail: martin.abraham@undp.org

Dr. Abraham actively promotes consumer and environmental issues through several citizen action networks. From 1984 to 1991, he coordinated "consumer interpol", IOCU's early warning alert system to check the global trade in hazardous products, technologies and wastes. He is a board member of ELCI, has participated in several expert group meetings of UNEP and other UN agencies, and is presently head of IOCU's environment programme, focussing on issues related to consumers and the environment.

### **Ahmed Abdel Rahman Al-Agib**

Faculty of Applied Science  
Arabian Gulf University  
P. O. Box 26671  
Bahrain  
Tel: (973) 440 287

Professor Al-Agib's research has contributed to renewable energy and water projects in the Sudan. He is the founder of the Sudan Institute of Solar Energy and chairman of the National Scientific and Technological Research Council.

### **Abdulbar Al-Gain** (deceased)

Dr. Al-Gain played a key role in the development of the Kuwait Action Plan, a regional strategy for the protection and management of marine environments. He has been Saudi Arabia's official representative at various regional and international environmental conferences.

### **Jassim Mohammad Al-Hassan**

Faculty of Science, Kuwait University  
P. O. Box 5969  
13060 Safat  
Kuwait  
Tel: (965) 531 3765/481 6496  
Fax: (965) 533 3224/481 6496

Professor Al-Hassan has promoted official and public awareness of marine and terrestrial environments through his research

publications, films and lectures. Recently he published a book about the environmental catastrophe, which resulted from the Iraqi invasion of Kuwait. For 16 years he has carried out research on marine toxins and their potential use in science and medicine.

### **Gaetano Allotta**

Lega Navale Italiana  
Via Diodoro Siculo 1  
Agrigento  
Italy  
Tel: (3922) 607 225  
Fax: (3922) 650 257  
E-mail: leganavaleagrigento@libero.it

The head of the Sicilian branch of the Italian Navy League which encourages officials and scientists to protect marine environments. The branch has produced more than 30 publications on the subject, including the Italian language version of the Mediterranean Action Plan to protect and manage the marine environment and its resources. The league stimulates marine research and management through its "man of the sea" awards.

### **Amasachina Self-Help Association**

P. O. Box 798  
Tamale  
Northern Region  
Ghana  
E-mail: epainfo@ghana.com

This voluntary organization has promoted self-sufficiency and environmental improvement in rural Ghana since 1967. The Association has helped more than 300 villages to acquire safe drinking water, promoted tree-planting in nearly 100 villages, and constructed over 100 dams for small-scale irrigation.

### **Amigos Da Natureza**

CP 62  
St. Vicente  
Cape Verde  
E-mail: amigosnatureza@cvtelecom.cv

A grassroots NGO formed in 1977, *Amigos da Natureza* is active in afforestation and the promotion of environmental awareness in Cape Verde, off the West Coast of Africa. The association plants an average of 50,000 trees each year and is also involved in horticulture. The activities have led to the "greening" of arid areas in Cape Verde.

### **Les Amis de la Terre**

38 Rue Meslay  
F-75003 Paris  
France  
Tel: (33 1) 48 87 33 44  
Fax: (33 1) 48 87 28 23

This French NGO is related to the network of friends of the earth. The organisation works on general issues such as water pollution, air and atmosphere, energy, waste, agriculture. They publish general reports on these issues.

**Australian Commission for the Future Ltd.**

c/o Dr. Ian Low, Director CFF  
 98 Drummond Street  
 P. O. Box 115  
 Carkon, Victoria 3053  
 Australia  
 Tel: (613) 663 3281  
 Fax: (613) 663 3620

In 1987, the Commission launched a joint programme with the Commonwealth Scientific and Industrial Research Organisation aimed at activating Australians at all levels to understand and prepare for climate change impacts. This 1988 campaign culminated in "greenhouse 88" - a nationwide three-day conference linking 10 cities by satellite television in high-level discussions on various aspects of climate change. No other organisation or nation has so far conducted any comparable public awareness programme on climate change.

**Rita Barron**

76 Walden Street  
 Newtonville, MA 02160  
 United States of America  
 Tel: (617) 527 0316

As Executive Director of the Charles River Watershed Association from 1973 until her retirement in 1988, Mrs. Barron led the successful campaign to reclaim the Charles River polluted by municipal and industrial wastes and poor land use. She aroused community interest in a healthy usable river through newspapers, radio and TV and by organising such public events as swimming, fishing and canoe racing. These events were used to show public interest in the Charles River to governmental agencies whose programmes and policies were in turn used to improve what she called the people's river.

**Parbati Baruah**

c/o UNEP Regional Office for Asia and the Pacific  
 United Nations Building  
 Rajadamnern Avenue  
 Bangkok 10200  
 Thailand  
 Tel: (662) 288 1234  
 Fax: (662) 280 3829/288 1000

Madame Parbati spends long periods away from home, assisting the West Bengal Forestry Department in their work concerning the welfare and protection of elephants in the foothills of the Himalayas.

**Kamal H. Batanouny**

Faculty of Science  
 Department of Botany  
 University of Cairo  
 Giza  
 Egypt

Since 1963 Professor Batanouny has extensively researched desert ecosystems and plants in Egypt, Saudi Arabia and Qatar, and promoted conservation of plant genetic resources. He has recently conducted a study on Islam and conservation.

**Purevjavyn Bayarsaikhan**

Mongolian Radio Broadcasting  
 Iy District 12/324  
 Ulaanbaatar  
 Mongolia

A leading Mongolian journalist and scholar who directed radio campaigns to protect the Hövsgol - one of the largest freshwater lakes in Mongolia. His efforts led to the shelving of joint Mongolian-Russian plans to mine phosphate in the Hövsgol valley, which would have threatened the lake.

**Alexander Bonilla**

Fundacion Ecodesarrollo  
 Apartado 6732-1000  
 San Jose  
 Costa Rica  
 Tel: (506) 32 41 70/32 72 95  
 Fax: (506) 31 04 61

Since 1973, Mr. Bonilla has made significant contributions to environmental education in Costa Rica through radio, TV, lectures, and publications used in many schools.

**Francois Bourliere**

Faculty of Medicine  
 University of Paris  
 15 Avenue de Tourville  
 75007 Paris  
 France  
 Tel: (331) 45 51 44 83

A French ecologist noted for his research on tropical ecosystems and mammals. Dr. Bourliere was, from 1963 to 1966, President of the International Union for Conservation of Nature (IUCN). He has served in senior positions in several international projects, including as chairman from 1971-75 of the UNESCO man and biosphere programme and chairman of the International Association for Ecology (INTECOL), 1982-1986.

**Paul Adrian Brodeur**

P. O. Box 793  
 North Truro  
 Massachusetts 02652  
 United States of America  
 Tel: (508) 487 1994  
 Fax: (212) 840 3800

Paul Brodeur has been a staff writer at the *New Yorker* magazine for the past 34 years. In 1968, he alerted the nation to the massive public health hazard posed by asbestos, and has written four books on the subject. His pioneering articles on the destruction of the ozone layer by man-made chemicals won an award from the American Association for the Advancement of Science. His three-part series of articles on the health hazards associated with the electromagnetic fields given off by power lines won a public service award in 1990 from the American Society of Professional Journalists. These articles have been published in a book entitled *Currents of Death: Power Lines, Computer Terminals, and the Attempt to Cover up their Threat to your Health*.

**Kenneth A. Brynaert**

200-F Woodridge Crescent  
Ottawa, Ontario K2B 7S9  
Canada  
Tel: (613) 828 6915

Mr. Brynaert has, since 1973, been Executive Director of the Canadian Wildlife Federation, an NGO active in environmental education and management. During his term federation membership has grown from 200 to over 500,000. Mr. Brynaert has promoted community participation in the protection of forests and wildlife habitats for 30 years. He serves on ministerial committees on whaling and endangered species.

**Paul John Butler**

P. O. Box GM 755  
Castries  
Saint Lucia  
Tel: (809) 452 9424

Working with Saint Lucia's Forestry Department, Mr. Butler initiated an environmental education programme that is one of the most successful in the Caribbean; incorporating billboards, posters, bumper stickers, sermons, songs, videos and theatre to convey the conservation message. He has been at the forefront of campaigns to protect the endangered Saint Lucia parrot and was the first recipient of the Prime Minister's Award for Wildlife Conservation. Today, Mr. Butler works for the US-based Rare Center for Tropical Conservation and is helping to coordinate environmental education programmes throughout the region.

**Care-International**

660 First Avenue  
New York, NY 10016  
United States of America  
Tel: (212) 686 3110  
Fax: (212) 686 3675

CARE is a leading international NGO, which, since 1980, has mobilised rural communities in Africa, Asia and South America to plant over 200 million trees. The organisation has strengthened indigenous environmental NGOs in India, Chad, Kenya, Uganda, Ecuador and Guatemala working on sustainable development projects.

**Chengdu Zoo**

Huanxin Jie  
Chengdu City  
Sichuan Province  
People's Republic Of China  
Tel: (86) 331 953 Chengdu

For 10 years, the panda rescue team of Chengdu Zoo has cared for injured, sick or starving wild pandas. Most of them have recovered. In 1978, the Zoo began panda breeding studies and in 1980, the first artificial insemination of a panda succeeded. Since then, the Zoo has used artificial insemination in 47 cases with considerable success, thus helping to ensure the survival of an endangered species. The Chengdu Zoo is the world's leading centre for panda study and care.

**Anthony Brian Cleaver**

IBM United Kingdom Limited  
P. O. Box 41  
North Harbour  
Portsmouth  
Hampshire PO6 3AU  
United Kingdom  
Tel: (44-705) 321212  
Fax: (44-705) 389 543

Under Sir Anthony's leadership, IBM (UK) has integrated environmental management across the company, through a cross-functional environment council, created in 1989 and reporting to a main Board director. IBM has published its environmental programmes for the 1990s, including improvement targets and deadlines. Sir Anthony represents IBM companies in Europe, the Middle East and Africa on IBM's Corporate Environmental Affairs Advisory Council. He is committed to moving the environment up the agenda of businesses of all sizes in the United Kingdom through his chairmanship of the business in the environment target team of business in the community and of the environmental management working group of the government's advisory committee on business and the environment.

**Commonwealth Scientific and Industrial Research Organisation (CSIRO)**

c/o Dr. Paul Wellings  
Deputy Chief Executive - Environment  
Canberra  
Australia  
Tel: (612) 6246 4551  
E-mail: paul.wellings@exec.csiro.au

In 1987, CSIRO launched a joint programme with the Commission for the Future aimed at activating Australians at all levels to understand and prepare for climate change impacts. This 1987/1988 campaign culminated in "greenhouse 88" - a nationwide three-day conference linking 10 cities by satellite television in high-level discussions on various aspects of climate change. No other organisation or nation has so far conducted any comparable public awareness programme on climate change.

**Whina Cooper**

Panguru  
The Hokianga  
Northland  
New Zealand

Dame Whina Cooper has for several decades championed protection of the environment among the Maori people in New Zealand. She is the founding president of the Maori Women's Welfare League, which promotes environmental, spiritual and emotional well-being of the Maori, and has led campaigns for government recognition of Maori rights, including management of their ancestral lands.

**Michel Courtot**

B.P. 1216  
Noumea  
New Caledonia  
Tel: (687) 351 378/411 976

Since 1980 Mr. Courtot, a government officer, has used his free time to reforest areas degraded by bush fires and mining in New Caledonia. Between 1984-87, he led groups of young people in planting indigenous trees to rehabilitate natural forests.

**Rogelio Cova**

Servicio, Desarrollo y Paz  
A.C. Huatusco 39,  
Col. Roma Del. Cuauhtemoc  
Mexico D.F. 06760  
Tel: (525) 584 3895/574 6397

Under his leadership, *Servicio, Desarrollo y Paz* has trained more than 1,000 rural workers in soil and water conservation in five Central American countries since 1983. They have in turn spread their new skills in their communities, promoting sustainable development and agricultural productivity.

**Maitraye Devi** (deceased)

Ms. Devi directed an orphanage on the outskirts of Calcutta, India and disseminated conservation and tree-planting among her wards and the community through ceremonies and cultural festivals. She lobbied government to prevent indiscriminate logging and land speculation in her neighbourhood.

**Dogal Hayati Koruma Dernegi (DHKD)**

(The Society for Protection of Wildlife in Turkey)  
P.O. Box 18  
80810 Bebek  
Istanbul  
Turkey  
Tel: (90 1) 279 01 39/279 01 40  
Fax: (90 1) 279 55 44

Founded in 1975, with 3,500 members, DHKD is Turkey's most active conservation organisation. It contributes to the conservation of nature and natural resources in Turkey through research, projects, fieldwork and education and mainly concentrates on the conservation of threatened ecosystems (wetlands, coastal zones) using endangered species (birds, sea turtles, bulbous plants) as the icons for its programmes.

**Nikolai Nikolaevich Drozdov**

Faculty of Geography  
Moscow State University  
Moscow 119899  
Russia

For the past 23 years, Mr. Drozdov has presented a weekly TV programme on wildlife conservation. Each programme is watched by about 200 million viewers and they have helped increase public environmental awareness in Russia. He is presently professor of bio-geography, Faculty of Geography, Moscow State University. He has published 20 books and manuals on biology, geography and nature conservation.

**Milo Dunphy** (deceased)

Mr. Dunphy has, for many years, played a leading role in several Australian NGOs and government committees concerned with environmental management. As Vice President of the Australian Conservation Foundation since 1983, he has worked successfully for the creation and management of national parks.

**Educational Communications**

P. O. Box 351419  
Los Angeles, CA 90035  
United States of America  
Tel: (310) 559 9160

An international non-profit-making volunteer organisation based in Los Angeles, CA, USA, Educational Communications is a leader in environmental broadcasting. Since 1977 they have produced since 1977 the "environmental directions" radio series, the longest running environmental programme in the USA. The three-times Emmy-nominated weekly television series "Econews" has been aired nationwide since 1984. Educational Communications has produced over 1,300 publications, audio cassettes, and video cassettes about the ecological crisis and received numerous other honours and awards for its work on conservation, social and peace issues.

**Dr. Anne Howland Ehrlich**

Center for Conservation Biology  
Department of Biological Sciences  
Stanford University  
Stanford, California 94305-5020  
United States of America  
Tel: (650) 725 1853  
Fax: (650) 725 5920  
E-mail: aehlich@leland.stanford.edu

For over two decades Dr. Ehrlich, a senior research associate in biology, has contributed significantly to policy research on human ecology. With her husband, Paul Ehrlich, she has helped create a greater understanding by scientists and decision makers of the intricate relationship between population growth and the environment.

**Paul R. Ehrlich**

Department of Biological Sciences  
Stanford University  
Stanford, California 94305-5020  
United States of America  
Tel: (650) 723 3171  
Fax: (650) 723 5920  
E-mail: pre@stanford.edu

Dr. Ehrlich is a distinguished US scientist noted for pioneer work on population growth and environment. He has publicised the environmental cause through the press, TV, radio and lectures. Dr. Ehrlich has written over 20 books on environmental issues and served in senior positions in America and international environmental organisations.

**Fatma El-Gohary**

20 Solimian Abazza Street  
Dokki, Giza  
Egypt  
Tel: (202) 349 9007  
E-mail: nrc@nrc.org.eg

For the past two decades Dr. El-Gohary, a civil engineer, has conducted applied research on water pollution and waste management. She was awarded the Egyptian State Prize for Environment in 1980 and the National Research Centre Prize for Scientific Excellence in 1986 for her contributions to environmental sciences.

**Anton Eliassen**

Norwegian Meteorologist Institute  
P. O. Box 43, Blindern  
N-0313 Oslo 3  
Norway  
Tel: (472) 260-5090

Dr. Eliassen conducted pioneer research on airborne transport of sulphur and nitrogen, two common air pollutants, which formed the scientific basis for the 1979 Geneva Convention on long-range transboundary air pollution. The Convention has led to the reduction of sulphur dioxide emissions in Europe. He is actively involved in air pollution monitoring for both East and West Europe.

**John Elkington**

SustainAbility Ltd  
11-13 Knightsbridge  
London SW1X 7LY  
United Kingdom  
Tel: (44 207) 243 1277  
Fax: (44 207) 243 0364  
E-mail: elkington@sustainability.com

John Elkington is the author or co-author of 12 books, including the No. 1 bestseller, *The Green Consumer Guide*. First published in the United Kingdom in 1988, the Guide has subsequently been published in over 15 countries. John Elkington has been an environmental consultant since the early 1970s and, as a founder-director of Sustainability in 1987, has advised a wide range of national and international government, NGO and business clients. He is actively involved in environmental auditing, corporate environmental reporting, green investment, sustainable tourism and biotechnology.

**Environmental Committee of Limassol**

Riga Fereou Street 53  
Limassol  
Cyprus  
Tel: (357-5) 51 363956

Established in 1973, the Environmental Committee of Limassol is a broad-based movement involving trade unions, community groups and professional bodies. The Committee has lobbied successfully against the unsound development of wetlands and coastal areas, and for protection of green areas in Limassol.

**Environmental Education Leading Group of Chaozhou City**

No. 7, Xiyuan Road  
Chaozhou  
Kwangtung Province  
People's Republic of China

The Group has been developing education for environmental protection in 598 primary and middle schools and 459 kindergartens since 1980. In the nationwide competition on "man and environment" the students won 80 per cent of the first prizes in the province. The students are active in pollution work, afforestation, and protection of beneficial birds and insects. Their experiences were reported to provincial and national conferences in 1983-1987.

**Bu Eroh**

Pasir Kadu  
West Java  
Indonesia

Ms. Eroh is an Indonesian villager who in 1985 led her community in West Java in constructing a water channel across four kilometres of rough mountainside. Three villages benefitted from the water supply and increased their rice production. In 1988, in recognition of her achievements the Indonesian Government honoured her with the Kalpataru (Tree of Life) Award.

**Gert Roland Fischer**

Rua Diamantina 287  
Floresta – 89.211-060  
Joinville – SC  
Brazil  
Tel: (55-47) 436 0647  
E-mail: gfisher.joi@terra.com.br

A Brazilian ecologist who has since 1976 promoted environmental awareness and sustainable development through books, newsletters, and numerous radio and TV interviews. Mr. Fischer works with grassroots movements (including farmers' unions), government departments and industry. He is the coordinator of the pesticides action network for Brazil and South Cone. He is Chairman of the Eurowaste Consult and Consulting Office to industrial hazardous waste treatment and soil cleaning.

**Florence Fisher**

Fisher & Associates International Inc.  
Rr 1, Box 222  
Chatham, NY 12037  
United States of America  
Tel: (518) 392 4920  
Fax: (518) 392 4922

Ms. Fisher was the founder, and for more than 20 years, chairman of Environmental Resources Ltd. She retired from the Chairmanship in 1988 and currently serves as President. From 1988-90, she was Assistant Director for Environment at the Energy and Environmental Policy Center of the Kennedy School of Public Policy at Harvard University. In that capacity, she was instrumental in initiating the Center's global climate change programme. She is currently President of Fisher & Associates International Inc., consultants in environmental management, trade and investment, and environmental technology partnering.

**Joaquin Fonseca**

Comision Permanente Del Pacific Sur  
Calle 76, No.9-88  
Bogota  
Colombia  
Tel: (571) 248 8680  
Fax: (571) 235 5145

Mr. Fonseca has been a member of the *Comision Permanente del Pacifico Sur* (Permanent Commission of the South Pacific) since 1980, and as Secretary-General from 1986. He has forged closer links among the five member states - Chile, Colombia, Ecuador, Panama and Peru - and contributed significantly to the Commission's joint programme with UNEP for protection of the region's marine environment.

**Friends of Trees of Living Beings**

At/Po-Kesharpur  
Via-Mandhatapur  
752079 District Puri  
Orissa  
India

A grassroots movement operating in 2,000 villages in Orissa, India, the Friends of Trees of Living Beings has, since 1970, promoted sustainable development in rural areas through projects in forest protection, the establishment of seed bank and nursery raising of indigenous species, wildlife conservation, plantation, environmental conservation, education, communication and training, bio-farming, family welfare, health care, sanitation, leprosy eradication, women's development, and water management, research, documentation and education.

**German Garcia-Duran**

Ambassador of Colombia  
P. O. Box 48494  
Nairobi  
Kenya  
Tel: (254-2) 765927/765515  
Fax: (254-2) 765911

A civil and environmental engineer, who has researched and written extensively on marine and fresh water pollution in Colombia, and designed urban waste-water treatment systems. He was active in the establishment of three national parks and protection of *Ciénaga de la Virgen*, an important wetland. Since 1986 he has been Director-General of the *Instituto Nacional de los Recursos Naturales Renobables y del Ambiente* (INDERENA) which is concerned with conservation of natural resources. In 1990 he was appointed the ambassador of Colombia to Kenya, where he also serves as permanent representative to UNEP and Habitat.

**Edgardo Gomez**

Marine Science Institute  
College of Science  
University of the Philippines  
Diliman  
Quezon City 1101  
Philippines  
Tel: (63) 521 5936/976061

Professor Gomez, a marine biologist, has made important contributions to the East Asian Seas Action Plan for the protection and management of the regional marine environment. He is chairman of the Association of South East Asian Marine Scientists, an NGO he helped found in 1987, which is actively involved in the plan. Professor Gomez has served as Chairman of the Joint Group of Experts on Scientific Aspects of Marine Pollution of IMO/FAO/UNESCO/WMO/WHO/IAEA/UN/UNEP. In the Philippines, his work on coral reef conservation is renowned.

**Julia Hailes**

Sustainability Ltd  
91-97 Freston Road  
London W11 4BD  
United Kingdom  
Tel: (44 207) 243 1277  
Fax: (44 207) 243 0364  
E-mail: hailes@tintinhull.demon.co.uk

Joint founder of the environmental consultancy Sustainability and co-author of the No. 1 bestseller *The Green Consumer Guide*, now published in over 15 countries, as well as of a number of other books, most recently *Holidays That Don't Cost the Earth*. Her areas of activity include environmental auditing, management briefings, environmental policy, strategy and communications. Julia Hailes sits on the UK's Eco-labelling Board and the UK UNEP Committee. She has made many television and radio appearances in Britain and abroad, including presenting a weekly series of programmes on UK network television.

**Youssef Halim**

Department of Oceanography  
University of Alexandria  
Alexandria  
Egypt  
Tel: (203) 491 1794

For the past 35 years, Professor Halim has actively promoted the protection and management of Egypt's coastal and marine environment. Since 1975 he has made important contributions to the pollution monitoring and research activities of the Mediterranean Action Plan, and is leader of UNEP's Task Team on the State of the Marine Environment of the Red Sea and Gulf of Aden.

**John Fagan Handley**

The Groundwork Trust  
2 Arlington Way  
Wilmslow  
Cheshire SK9 3BP  
United Kingdom  
Tel: (44-625) 526 527/0744 39 390

Mr. Handley has, since 1982, been Executive Director of the Groundwork Trust which is involved in the rehabilitation of degraded environments. For the past six years he has led the Trust's "operation groundwork" which improves rural and urban environments.

**Richard A. Hellman**

2013 Que Street, NW  
Washington DC 20009  
United States of America  
Tel: (202) 483 4805/234 3600  
Fax: (202) 332 3221

A lawyer who for the past two decades has championed environmental legislation in the US. As counsel to the US Senate Public Works Committee in 1972-76, he helped draft legislation on air and water quality, noise, solid wastes and toxic substances. He has been President of the Friends of UNEP, USA since its inception in 1984.

**Hetian County Government**

Xinjiang Uighur Autonomous Region  
People's Republic of China

On the fringe of the Taklamakan Desert, Hetian County covers 4,300 square kilometres. There is an oasis of 710 square kilometres and 28,600 hectares are irrigated by melted snow. The annual rainfall is only about 38 mm. The three main natural problems of the county are spring drought, sand-laden wind, and salinisation of soil. Before 1979 there were few trees. Since the establishment in 1980 of the "three north" protection forest system, 22,847 hectares of forest have been planted and a shelterbelt network established. As a result soil stayed moist, wind speeds were reduced and grain output was raised from 60,000 tons to 100,000 tons. Cotton and edible oil output increased four times, and livestock numbers went up by 54%. The county's achievement is an excellent example of reforestation for sustainable development in harsh conditions.

**Gome Gnohite Hilaire**

Association de la Jeunesse Ivoirienne pour la Sauvegarde de l'Environnement  
B.P. 699  
Abidjan 02  
Cote d'Ivoire

Since 1985, Mr. Hilaire has mobilised youth in supporting environmental programmes in Cote d'Ivoire. The *Association de la Jeunesse Ivoirienne pour la Sauvegarde de l'Environnement* is active in the conservation of forests and ecosystems, desertification control, education and training. In 1992 he created with other young Africans the "African Youth Coordination on Development and Environment" (AYCODE).

**Thilo Walter Hoffman**

P. O. Box 11  
Colombo 1  
Sri Lanka  
Tel: (94) 28 974

Mr. Hoffmann, a Swiss national, is a committed conservationist. He is actively involved in many fields including coast conservation and wetland protection in Sri Lanka. He is an office bearer of the Wildlife and Nature Protection Society, actively involved in the preparation for the society's centenary in 1994. Much of Mr. Hoffmann's time and energy is now devoted to the study and conservation of birds and their habitats in Sri Lanka. He is the chairman of the Ceylon Bird Club and of the Sri Lanka Section of ICBR. He represents IWRB, for whom he organises the annual waterfowl census. Mr. Hoffmann regularly publishes papers on birds and other conservation subjects.

**Andrew D. Holleman**

21 Judith Road  
Chelmsford, MA 01824  
United States of America  
Tel: (508) 256 2032

In 1988, at the age of 13, Andrew Holleman organised a successful community campaign to prevent a wetland in Chelmsford from being transformed into a sewage treatment leaching system. He was honoured by the US Environment Protection Agency with the 1988 Environment Merit Award. Since then he has presented many

speeches and lectures regarding the preservation of the natural environment to various groups in his state and across the USA.

**David L. Holm**

2012 Mapleton Street  
Boulder, Colorado 80302  
United States of America  
Tel: (303) 449 4675

A pioneer in the treatment and drainage of toxic matter from inactive mines. In 1984 he designed a system to neutralise mine acidity which uses low-cost materials and does not require continued electrical and chemical inputs. The system has been successfully used at three abandoned mines by the Colorado Department of Natural Resources. It is an environmentally-sound approach to pollution control in mining.

**Sidney Holt**

Podere "Il Falco"  
06062 Citta Della Pieve (Pg)  
Italy  
Tel: (39-578) 298 186

For the past three decades, Dr. Holt, a marine biologist, has been a leader in marine mammal conservation. He organised the 1976 Bergen Conference, which defined the status of marine mammals and led to the 1984 global plan of action for the conservation, management and utilisation of marine mammals. His expertise contributed to the adoption in 1982 of the worldwide moratorium on commercial whaling by the international whaling commission, and the designation of the Indian Ocean as a whale sanctuary.

**Institute of Tropical Forestry**

USDA Forest Service  
Call Box 25000  
Rio Piedras, PR 00928 2500  
Puerto Rico  
Tel: (809) 766 5335

For the past 53 years the Institute has researched extensively on ecology, soil, water and ecosystem management, and trained foresters and forestry technicians in Caribbean and Latin American countries. The Institute has also reforested thousands of hectares in the mountainous Luquillo experimental forest, contributing to its rehabilitation. Currently the Institute is collaborating with the Brazilian Government in the development of a research and forest management program in the Tapajos National Forest in the Brazilian Amazon.

**Alexander Sergeevich Isaev**

USSR State Committee for Forests  
Novocheremushkinskaya 59  
Moscow  
Russia

Dr. Isaev is a pioneer in forest management based on ecological zone productivity, which is now practised widely in Russia. As a member of the Russian Supreme Soviet Committee on Environment, he helped shape and implement environmental policy. Dr. Isaev has written frequently for the media, particularly on the conservation of Lake Baikal and on the environmental impacts of hydropower stations in Siberia.

**Dr. Hiroyuki Ishi**

The University of Tokyo  
 Graduate School of Frontier Sciences  
 Institute of Environmental Studies  
 7-3-1 Hongo, Bunkyo-ku  
 Tokyo 113 8656  
 Japan  
 Tel: (813) 6229 5181  
 Fax: (813) 6229 5180

The environmental correspondent for *Asahi Shimbun*, a leading Japanese daily newspaper with a circulation exceeding 12 million. His reports from Africa in 1986 highlighted environmental problems and led to a change towards support for sustainable development in Japanese aid policy. His books and articles on environment are widely read and used as texts in Japanese schools.

**Roger James**

Central Television  
 46 Charlotte Street  
 London W1  
 United Kingdom  
 Tel: (44-207) 637 4602

Controller of factual programmes for Central Television in the United Kingdom. He heads a team which works closely with TVE - the Television Trust for the Environment - which is a charity partly sponsored by UNEP. Central television's commitment to the production of environmental programmes is a long and continuing one. Past programmes include award winning documentaries which drew public attention to the destruction of the Amazonian forests and stimulated global assistance to the Ethiopian famine victims in 1984/85. Central's most recent environmental production was a two hour special "the last show on earth" which was broadcast to mark the Rio Summit, and which attracted a UK audience of seven and a half million viewers.

**Luis Sumar Kalinowski**

Avenida de la Infancia No. 440  
 Huanchac, Cusco  
 Peru  
 Tel: (51-84) 231 913  
 Fax: (51-84) 235 303

A Peruvian agronomist who reintroduced cultivation and consumption of Kiwicha, a highly nutritious staple food which was common in the Inca era. Kiwicha is now widely used in child nutrition in rural Peru. For his work, Dr. Kalinowski was awarded the Order of the Sun, Peru's National Award.

**Shoaib Sultan Khan**

The Aga Khan Rural Support  
 Programme  
 Babar Road  
 P. O. Box 506, Gilgit  
 Northern Areas  
 Pakistan  
 Tel: (92) 2454/2480/2779

Mr. Shoaib Sultan Khan is General Manager of an Aga Khan Foundation Rural Support Programme, which encourages forest

management and sustainable agriculture. Since 1982, the programme has promoted sound environmental management and small-scale income-generating activities, which have benefitted 800,000 rural people in northern Pakistan.

**Sook Pyo Kwon**

300- 77 Echon Dong Yong  
 San Ku  
 Seoul  
 Republic of Korea  
 Tel: (822) 795 5578

Since 1986, Professor Kwon, an environmental scientist, has conducted research on industrial pollution. In 1962 he lobbied successfully for the first environmental legislation in Korea, and in 1968 he established the institute for environmental research at Yonsei University. Professor Kwon serves in senior positions on government committees and NGOs dealing with environment. His 250 articles and 15 books, and numerous lectures and interviews on radio and TV have helped increase environmental awareness in the Republic of Korea.

**Alphonse Lafontaine**

95 Boulevard Brand Whitlock  
 Louvain  
 1200 Bruxelles  
 Belgium  
 Tel: (322) 733 4215

Mr. Alphonse Lafontaine, a distinguished scientist in the fields of medicine, public health and the environment. For more than 30 years he has advised governments and international organisations including UNEP, the World Health Organisation, and the European Community on such subjects as nuclear energy, marine pollution, toxic chemicals, and environmental standards.

**Hugh F. Lamprey**

Little Widefield Farm  
 Inwardleigh, Okehampton  
 Devon EX20 3DA  
 United Kingdom  
 Tel: (44-0837) 52627

Dr. Lamprey was active between 1953 and 1990, initiating, undertaking and directing management, research education and conservation programmes relating to wildlife, natural resources and lands in Kenya, Tanzania and the Sudan. Now living in the UK, he is engaged in environmental consultancy concerned mainly with national parks and protected areas in Africa.

**Leichtmetallgesellschaft Mbh (LMG)**

Sulterkamp 71  
 D-4300 Essen 1  
 Germany  
 Tel: (49-201) 3660  
 Fax: (49-201) 366 545/632/602

LMG, with advice from the Essen University Biology Department, has protected wetlands on its site in the Ruhr, halted use of horticultural chemicals and allowed wild grasslands to thrive. As a result natural habitats have developed which have been colonised by birds, reptiles and other small fauna, including some endangered species. The company's achievement is an example of ecocodevelopment in industrial areas.

**Pierre Gustave Lequeux**

Commission of the European Communities  
20 Chemin Du Tour  
7400 Soignies  
Belgium  
Tel: (32 2) 299 2319  
Fax: (32 2) 299 10 63

Mr. Lequeux has implemented more than 100 projects on renewable energy in developing countries since 1983. He helped develop the EC's aid programme for rural energy conservation based on education and development activities.

**Nicos Margaritis**

Kitheronos 39  
152 35 Chalandri  
Greece  
Tel: (301) 684 9670

Professor Margaritis, a Greek ecologist, has researched widely on ecosystem management in the Mediterranean and championed environmental issues in Greece through newspapers and TV programmes.

**Uri Marinov**

Director General  
Ministry of the Environment  
P. O. Box 6234  
Jerusalem 91061  
Israel  
Tel: (972 2) 701 606  
Fax: (972 2) 513 945

Dr. Marinov has been active in environmental management in Israel for over two decades. He served as Founding Director of the Environmental Protection Service, and has been Director General of the Ministry of the Environment since its establishment in 1988.

**Donald McMichael**

244 La Perouse St  
Red hill  
Australia 2603  
Tel: (6126) 6295 1436  
E-mail: dfmcm@netinfo.com.au

Dr. McMichael has, for 30 years, played a key role in both government and non-government Australian institutions dealing with environment and natural resources. He was instrumental in the establishment of the Great Barrier Reef Marine Park and in the development of federal government environment policies and conservation programmes during the 1970s and 1980s. From 1981 to 1984 he was Chairman of the Environment Committee of OECD. During 1991 and 1992 he has been actively involved in the development of a biological diversity conservation strategy for Australia.

**Margaret Mee** (deceased)

Nonesuch expeditions

Ms. Margaret Mee, who died in 1988, made unique paintings of Brazilian flora during 15 plant-hunting expeditions over 30 years. They form a unique record of many plant species threatened with extinction as the Amazonian forests disappear. She is credited with the discovery of eight new plant species.

**Carlos Minc Baumfeld**

Permanent Assembly for the Defense  
of the Environment  
Rua Paolo Cesar de Andrade  
22 Ap 802 Laranderes  
22221 Rio de Janeiro  
Brazil  
Tel: (55-21) 265 7517

Professor Minc Baumfeld has used his position as a legislator in the state of Rio de Janeiro to organise environmental protection campaigns. Through his efforts some natural areas are protected in the state, including the Illia Grande Island, the last coastal reserve in the state. He has written several books on environment and ecology.

**President Daniel arap Moi**

Kabarak University  
Box 44  
Menengai  
Kenya

For more than a decade President Moi has exercised strong leadership in Kenyan and African environmental issues, particularly in the fields of soil preservation, reforestation, national parks and sustainable rural development. President Moi actively involves himself in environmental projects like building gabions and planting trees. He is also a leading advocate in the developing world of international cooperation to preserve the ozone layer and for measures to limit climate change.

**Harekala Moideen**

Kisan Nagar  
Harekala Post and Village  
Mangalore, DK  
India

In 1969 Mr. Moideen mobilized fellow landless peasants in a successful campaign to preserve 120 hectares of wasteland, which they converted into a fruit plantation. In 1978/79 he and his volunteers planted nearly one million trees in the Western Ghats area. These achievements are examples of environmental action for marginal farmers elsewhere. His latest project is the planting of 750,000 trees in the area.

**Professor Mario J. Molina**

Massachusetts Institute of Technology (MIT)  
 Room 54-1814, 77 Massachusetts Avenue  
 Cambridge, MA 02139  
 United States of America  
 Tel: (617) 253 5081  
 Fax: (617) 258 6525  
 E-mail: mmolina@mit.edu

Dr. Molina was co-author (with F. S. Rowland) of the original papers, which drew attention to the chlorofluorocarbons/stratospheric ozone depletion problem. He is one of the premier atmospheric laboratory scientists. Dr. Molina was a participant in raising the initial problem, and then played a crucial role in demonstrating the importance of anthropogenic chlorine during the formation of the ozone hole.

**Edgardo Mondolfi** (deceased)

Prof. Mondolfi, a biologist, and former Ambassador of Venezuela to Kenya has done pioneer work in wildlife management. He was awarded Venezuela's *Pemio Nacional de Conservacion* (1969). Prof. Mondolfi has been Assistant Minister of Agriculture, adviser to the Ministry of Environment and Professor of the Central University of Venezuela, where he taught animal sciences. He has published extensively on endangered species, taxonomy and the ecology of mammals.

**Raul Alberto Montenegro**

Casilla de Correo 83  
 Correo Central  
 (5000) Cordoba  
 Argentina  
 Tel: (54- 351) 457 5710/455 1441  
 Fax: (54-351) 452 0260  
 E-mail: raulmont@satlink.com

Mr. Montenegro is a biologist from Argentina. He was awarded the prize for scientific research at Buenos Aires University, the environment prize at Tucuman's University and included in the honours list of the USA Academy for Educational Development. He wrote the ecology pages of *La Voz del Interior* newspaper from 1983 to 1988 (130,000 issues daily). He was president of the Argentine Association of Ecology and vice-president of Greenpeace Argentina. He is the author of 28 laws and regulations on environment, among them the environment law of the province of Cordoba, the first law of its kind in Argentina. He has written more than 80 specialised articles, 500 on environmental protection and 21 books. He chaired the children's campaign for peace and life that worked with more than 400,000 children. He has contributed through radio and television to the mobilisation of public opinion in Argentina in defense of the environment and against the arms race and nuclear power.

**Brian Morton**

Department of Zoology at the Swire Marine Laboratory  
 The University of Hong Kong  
 Hong Kong  
 China  
 Tel: (852) 859 2847/809 2179  
 Fax: (852) 559 9114/809 2197

For almost 25 years, Professor Morton, a British marine scientist, has contributed to the greater understanding of the Asian marine

environment and the threats posed by development in the region. He has organised numerous research workshops and conferences for scientists from China, Hong Kong and elsewhere in the search for solutions to common marine environmental problems. Professor Morton is also active in international marine organisations, founding chairman of the marine biological association of Hong Kong and founding editor of *Asian Marine Biology*.

**Pamuchigere Nembire**

Pfura District Council Natural Resources Committee  
 Nembire School  
 P. O. Box 9060  
 Centenary  
 Zimbabwe

In 1982, Mr. Nembire, a traditional chief in East Zimbabwe, declared part of his tribal lands which had been degraded during the liberation war a protected area. He carried out soil conservation and promoted sustainable agriculture among villagers. The protected area has regenerated into indigenous woodland and the local crop yields have increased. He was honoured with the 1988 national certificate of merit by the national resources board of Zimbabwe. His achievement is an example for marginal farmers in Zimbabwe and elsewhere.

**Nyakinyua Gitiri Women's Group**

P. O. Box 89  
 Kahuro  
 Murang'a  
 Kenya  
 Tel: (254-015) 741 001

Since 1983, this community women's group has raised and supplied 175,000 seedlings for rural afforestation and collaborated with the Kenyan Ministry of Agriculture in promoting better farming methods.

**Joseph R. O'Neal**

P. O. Box 35  
 Road Town, Tortola  
 British Virgin Islands  
 Tel: (809) 494 2292

Mr. Joseph O'Neal is a businessman who has promoted tree-planting in the British Virgin Islands since 1953 and led successful campaigns to establish 13 national parks and protected areas in the territory. He is a founder member of the Caribbean Conservation Foundation, an NGO formed in 1967 which has brought together NGOs and governments in the region in work for sustainable development.

**Ontario Public Interest Research Group**

Suite 201  
 455 Spadina Avenue  
 Toronto, Ontario  
 Canada  
 Tel: (416) 598 1576

A university-based grassroots movement formed in 1973, OPIRG is active in public awareness campaigns and research in environmental and social issues. The group works with communities on sustainable development activities and waste management, energy, acid rain and hazardous waste issues. It has

established seven resource centres, which hold environmental documents not usually available to the public.

**Chang-Keun Park**

265-216 Hongeun  
3-Dong Sudaemun-Ku  
Seoul  
Republic of Korea  
Tel: (822) 739 2551

In 1981, Mr. Park founded the Korean Environmental Protection Institute, an NGO which promotes environmental awareness through seminars and exhibitions. For the past 10 years he has researched, lectured, and written extensively on the environment, particularly on pollution. In 1988 he was awarded the Republic of Korea's Grand Prize for Environmental Protection.

**David William Pearce**

90 Kimbolton Road  
Bedford MK40 2PE  
United Kingdom  
Tel: (44-234) 341 946  
Fax: (44-234) 215 528

Professor Pearce has been active in environmental issues since 1964 and is noted for his pioneering work in the economics of sustainable development. He developed the theory and practice of environmental economics, which is now widely used by international development agencies. Professor Pearce has written extensively on environment and development and helped establish in 1971/72 the environment directorate of OECD, to which he is an adviser.

**Nancy Pearlman**

1783 South Wooster Street  
Post Office Box 351419  
Los Angeles  
CA 90035-9119  
United States of America  
Tel: (310) 202 7553/559 2773

An award-winning environmental broadcaster, Nancy Pearlman has been promoting the environmental message since 1969 as a journalist, activist, lecturer, college instructor, and nonprofit-making organisation administrator. She hosts and produces weekly international radio and television series, edits the bi-monthly compendium newsletter, compiles the directory of environmental organisations and writes specialised articles and reports. In 1972 she founded the Ecology Center of southern California, a regional conservation organisation reaching over 15 million people.

**Pemasky - Kuna Wildlands Project**

Apartado 2012  
Paraiso, Ancon  
Panama  
Tel: (507) 82 3226

This project, launched in 1981, was conceived and is being implemented by an indigenous group, the Kuna Indians of Comarca, San Blas, Panama. The group is managing a 40,000 hectare primary forest which for centuries has provided the tribe's

livelihood. It is an example of the world conservation strategy in action.

**Philippine Foundation of Rural Broadcasters**

4/F, National Irrigation Administration Building  
E de Los Santos Avenue  
Diliman, Quezon City  
Philippines  
Tel: (63) 972065  
Fax: (63) 983456

Since its establishment in 1981, PFRB has brought to public notice significant environmental issues and concerns through its monthly newsletter and taped interviews aired on the radio programmes of PFRB's more than 200 broadcaster-members, nationwide. It has organised seminar-workshops for mass media practitioners, NGOs and GOS to help them better inform, educate and motivate their audiences. The Foundation won the 1988 Philippines Award for Environment and Development, and the 1989 "Likas Yarman" (natural resources) award for outstanding environment communications and environmental activities.

**Pokret Gorana Srbije (The Gorani Movement of Serbia)**

Rankeova 17  
11000 Belgrade  
Yugoslavia  
Tel: (38-22) 456 842

A Yugoslav citizen's movement involved in afforestation since 1960. This organisation has mobilised brigades of volunteers to afforest 236,000 hectares. The movement organises well-attended rallies each world forestry day, on March 21, and publishes its own newspaper six times per year.

**Barbara Y. E. Pyle**

4221 Brookview Drive  
Atlanta, Georgia 30339  
United States of America  
Tel: (770) 436 2059  
Fax: (770) 436 2109  
E-mail: BYEPYLE@aol.com

Between 1981 - 1986, Ms. Pyle produced award-winning environmental documentaries for the Turner Broadcasting System, including *Our Finite World* a series on population problems and solutions in developing countries, among them China, Indonesia and Mexico. She has also made joint productions with the BBC and the better world society, and written extensively on the environment for US magazines.

**G. Radhamohan**

Qrs. No. Ds-4/4  
Mla Colony, Unit-4  
Bhubaneswar 751001  
India  
Tel: (91-50) 070 739

Professor Radhamohan, a social worker and teacher, has mobilised students and rural youth in "greening" barren hills in Orissa, India. With his volunteers he established a 1,000 hectare cashewnut plantation and campaigned for forest conservation and afforestation of major dam project areas. Professor Radhamohan

has promoted forest conservation in more than 5,000 villages in Orissa.

**Robert Richter**

330 West 42nd Street  
NY 10036  
United States of America  
Tel: (212) 947 1395  
Fax: (212) 643 1208

For the past 30 years Mr. Richter's TV documentaries on global environmental issues have appeared regularly on public and commercial networks in the US and many other countries. His best known productions include "Increase and Multiply", on population growth in developing countries, "Gods of Metal", on the nuclear arms race, and "Hungry for Profit" on large-scale plantation agriculture.

**Anita Roddick**

The Body Shop International Plc  
Watersmead, Littlehampton  
West Sussex BN17 6LS  
United Kingdom  
Tel: (44-0903) 731 500/717 107  
Fax: (44-0903) 726 250

In 1976, Ms. Roddick founded the Body Shop, which now has 782 branches in 42 countries retailing skin and hair care preparations. Her shops use recycled paper and refillable containers. She also uses the shops to publicise environmental and consumer issues. Ms Roddick supports community economic and health projects in India, Nepal, New York, Scotland, Mexico and Brazil.

**Basil Allen Rossi**

De Leons Place-Bgyiruhin  
Tagaytay Cavite  
Philippines

Dr. Rossi introduced organic farming of sugar, rice and pepper in northern Samar Province in the Philippines in 1980, increasing yields up to 300% and creating employment for many villagers. His achievements promote sustainable development.

**Felix Yakovlevich Rovinsky**

Institute of Global Climate and Ecology  
20b Glebovskaya Street  
107258 Moscow  
Russia  
Tel: (7095) 169 2211  
Fax: (7095) 160 5847

A chemist who has made significant contributions to research into the global distribution and effects of toxic pollutants in the biosphere. His work on organochlorines, sulphur and nitrogen compounds and heavy metals has led to a greater understanding of their effects on terrestrial ecosystems in Eurasia.

**Dr. Felix Augustine Ryan**

No. 15 West Mada Street  
Srinagar Colony  
Madras 600015  
India  
Tel: (91-44) 2235 1993  
E-mail: felix\_ryan@mantraonline.com  
Felixryan@sify.com

For the past 30 years, Mr. Ryan has been promoting income-generating projects for the poor based on rural raw materials, waste and appropriate technology in Africa and Asia. The three volumes of his popular book *better life technologies for the poor* is a valuable text for rural extension workers. He is the founder president of Ryan Foundation International which innovates ecofriendly low technology to solve problems created by high technology and also the chief monitor of the global movement "Survival by Sea Water" which was made part of the UN Secretariat document by the UNCED Prepcom in Dublin. Mr. Ryan shows the rural poor ways to desalinate sea or saline water into drinking water at almost no cost and plant trees that grow in sea water and shows the employment this generates. He was advisor to UNIDO and ILO.

**Jose Manuel Salazar**

Carrera 7 No. 8-05  
Departamento Del Risaralda  
Marsella  
Colombia  
Tel: (57) 618 5073

Mr. Salazar, who is also known as Don Manuel, is a small-scale farmer who has created a small forest on his farm, which he uses to teach afforestation and agroforestry to students and the community. In 1988 he was honoured with the "Roble de Oro" Award of Colombia's Institute for Renewable Natural Resources and Environment. His work is a model for peasant farmers worldwide.

**Richard Sandbrook**

International Institute for Environment  
and Development  
13 Endsleigh Street  
London WC1  
United Kingdom  
Tel: (44-207) 388 2117  
Fax: (44-207) 388 2826

Mr. Sandbrook was one of the founders of Friends of the Earth (UK) in 1969, an influential NGO with traditions of sound research, professional advocacy and grassroots approaches to environmental issues. He helped develop Earthscan, which is now a leading environmental publisher. Mr. Sandbrook has been actively involved with international NGOs for over 15 years, among them the Environmental Liaison Centre (now the International Institute for Environment and Development), where he is executive director.

**Pierre Schram**

Ingénieur Civil ENEFN  
Associate IUFRO Member  
1, rue de la Forêt  
8065 Bertrange  
G. D. Luxemborg  
Tel: (352) 45 67 36  
Fax: (352) 45 56 69  
E-mail: schram@pt.lu

Mr. Schram, a civil engineer, created an environmental database for Luxembourg, including a description and inventory of forest stands. He has made important contributions to the study of forest evolution by statistical analyses. The system, built upon the basis of aerial photographs, is extended to satellite imagery. It will be

linked to a low-cost information system, which can be used in global forest monitoring.

**Leonard Schwartz**

450 Christian Herald Road  
Valley Cottage  
New York 10989  
United States of America  
Tel: (914) 358 6924

Mr. Schwartz, formerly a publisher, is chairman of the US-based rainforest alliance, which was formed in 1987, to raise funds to acquire and manage rainforest reserves. The Alliance also supports a rural health programme in Peru, and publishes newsletters and other information on environment and health issues.

**Sawroop Krishna Sharma**

Environment Society of India  
Karuna Sadan, Sector 11B  
Chandigarh 160011  
India  
Tel: (91-172) 28832  
Fax: (91-172) 544533

In 1988, Mr. Sharma established a Green Library of Environmental Sciences, the first of its kind in India. He has organised several national and international exhibitions and seminars, to promote environmental conservation and sustainable development. He is secretary of the Environmental Society of India, an NGO active in environmental awareness, research and training which he founded in 1976 (the first in India).

**Andrew Augustus Simmons**

Jems Institution for Popular Education  
Enhams  
Prospect Post Office  
St. Vincent and the Grenadines  
Fax: (1 809) 457 2152

President of the Jems progressive community organisation, which promotes tree planting, soil conservation and sanitation. Since 1972 he has been mobilising young people in community environmental activities. He is the coordinator of a Caribbean Youth Environment Network.

**Thodoros Skoulidakis**

Dexamenis 10  
Kifisia  
Athens 14563  
Greece  
Tel: (30 210) 620 2712  
Fax: (30 210) 620 2712  
E-mail: skoul@chemeng.ntua.gr

Dr. Skoulidakis has conducted important research on the impact of air pollution on historic monuments, particularly the Acropolis in Athens. His studies of atmospheric sulphur dioxide and its effect on marble assist in the restoration of ancient monuments.

**David T. Sukuki**

Suite No. 219  
2211 West 4th Avenue  
Vancouver, BC, V6K 4S2  
Canada  
Tel: (604) 730 9670  
Fax: (604) 730 9672  
E-mail: elois@vkool.com

An eloquent communicator on environmental issues and the host of several radio and TV programmes, including the popular Canadian Broadcasting Corporation TV series "The Nature of Things", and the Canadian Broadcasting Corporation radio series "It's a Matter of Survival". He writes a weekly syndicated newspaper column on the environment and is the author of six children's books. He was awarded the UN Gold Medal, UNESCO's Kalinga Prize and holds 11 honorary degrees from Canada and the US. He is an Officer of the Order of Canada.

**Robert Swan**

The International North Pole Expedition  
112 Kent Street  
Sydney  
Australia  
Tel: (612) 241 3041  
Fax: (612) 251 4962

A British explorer and environmentalist, he has promoted the conservation of the Antarctic and the protection of the ozone layer through hundreds of public lectures worldwide. In 1985/86 he walked 1,500 km across the Antarctic to the South Pole.

**Krisna Tamrakar**

P. O. Box 11918  
Kathmandu 7  
Nepal  
Tel: (977-1) 471 583  
E-mail: chabimal@wlink.com.np

Ms. Tamrakar has for many years presented environmental programmes on Radio Nepal which have increased awareness of the need for the protection of the Himalayan kingdom's threatened environments.

**Josef Velek**

Dobrovskeho 14  
17000 Praha 7  
Czechoslovakia  
Tel: (420) 374 860/223 726

A Czechoslovak journalist, TV producer and author, and founder of the "brontosaurus- movement" which mobilises youth for conservation. During the past 14 years the movement has organised 15,000 young people to work in afforestation.

**Vlasis Vellopoulos**

Asimaki Fotila 99  
26222 Patras  
Greece  
Tel: (30-210) 751 8601/(30 6977) 911 727  
Fax: (30 210) 752 2915/(30 2610) 241 177  
E-mail: vellopou@otenet.gr

A self-trained social worker who has led successful campaigns for environmental legislation in Greece and against pollution of the Gulf of Patras. Among his other achievement are protecting the coastal forests and wetlands of Kalogria.

**Ven Kirantidiye Pannasekera**

Upper Mahawelly Environment Development Project  
Doragala Ramboda  
Sri Lanka

A Sri-Lankan Buddhist monk who promotes rural environmental

protection. Since 1981 ven Thera has organised more than 1,000 villagers to conserve forests and carry out afforestation programmes to protect areas threatened by development projects. He established a model village in Galahitiya, which practices sustainable development and is an inspiration to neighbouring communities.

**Valentin V. Voloshin**

Presidium of the United Kingdomrainian Academy of Sciences  
Vladimirska Street 54  
Kiev  
Russia  
Tel: 224 1698

Dr. Voloshin is deputy chairman of the Ukrainian National Committee for UNESCO's Man and Biosphere programme and he has influenced environmental policy in the Soviet Union. He is author of several publications on environmental management.

**Stephen S. Wanje** (deceased)

Fudumi Mitungi Women's Group  
P. O. Box 200  
Maragoli  
Kenya

Dr. Wanje, a medical practitioner in Maragoli, West Kenya, promotes better farming methods as well as health care among local women farmers. He uses his farm to demonstrate sustainable agriculture in marginal areas and provides low-cost medical care to the community.

**Dr. Robert T. Watson**

Director  
Environment Department  
The World Bank  
1818 H. St. NW,  
Washington DC 20433  
United States of America  
Tel: (1-202) 453 6965  
Fax: (1-202) 522 3292  
E-mail: rwatson@worldbank.org

A British-born chemist who, since 1980, has been a leader in NASA's atmospheric research programmes. He made major scientific contributions to the Vienna Convention and the Montreal Protocol agreements for the protection of the ozone layer. As a scientist, manager, catalyst and spokesman he continues to exert distinguished leadership in ozone layer research and in international actions to increase protection of the layer.

**David Alexander Weir**

248 Elsie Street  
San Francisco  
California 94110  
United States of America

Founder of the Centre for Investigative Reporting and an editor at *Mother Jones* magazine, his articles have alerted many Americans to threats to the environment. Mr. Weir's writings on pesticide issues - in particular "circle of poison: pesticide and people in a hungry world", co-authored by Mark Shapiro, and "the Bhopal syndrome: pesticides, environment and health" have increased public awareness of the potential dangers of chemicals.

**Michael Werikhe** (deceased)

Mr. Werikhe raised nearly US\$1 million for rhino conservation in his sponsored walks in 1982, 1985 and 1988 which covered nearly 5,000 km in Kenya and several European countries. His "walks for the rhino" significantly increased awareness and influenced public opinion in Kenya and Europe. He is a rare example of an African grassroots activist in a field usually dominated by expatriate scientists.

**Ram Prit Yadav**

Royal Chitwan National Park  
Kasra, Chitwan,  
Narayani Zone  
Nepal

Mr. Yadav conducted the surveys, which in 1973 led to the establishment of the first national park in Nepal, Royal Chitwan National Park, and two other protected areas. He played a leading role in the subsequent establishment of a breeding centre for the then threatened slender-snouted crocodile - the gharial - which has since thrived.

**Michael Alexandrovitch Zablotsky**

Prioksko-Terrasnyi  
State Biosphere Reserve  
Post Office Danki, SierpUnited Kingdomchov  
Moscow Region 142274  
Russia

A Soviet zoologist famed for his long pioneering work in breeding programmes for the endangered European bison. His work, frequently in very difficult circumstances, has led to greater protection of the bison and the establishment of breeding centres in Russia.

## 1990 GLOBAL 500 LAUREATES

### **Alcoa of Australia Limited**

P. O. Box 252  
 Applecross WA 6153  
 Australia  
 Tel: (618) 9316 5445  
 Fax: (618) 9316 5166

For more than 20 years the company has carried out a mine rehabilitation programme in the south-west of Western Australia. This covers four bauxite mining areas in a unique forest region and three associated alumina refineries. This programme integrates overall environmental protection with industrial development.

### **Mary Zanoni Allegretti**

Rua Itupava, 1220  
 Curitiba-Pr 80040-000  
 Brazil  
 Tel: (55 41) 262 9671

Since 1980 Ms. Allegretti has worked with Brazil's National Council of Rubber Tappers, led by the late Francisco Mendes Filho, for the preservation of the Amazonian forests and the organization of its peoples to seek their rights.

### **Roula Angelakis-Malakis**

50 Heron Polytechniou Ave.  
 264 41 Patras  
 Greece  
 Tel: (30-61) 426 988, 431 057  
 Fax: (30-61) 426 988  
 E-mail: nikism@tee.gr

A journalist with *Gynaika*, the leading women's magazine in Greece. Since 1975, she has influenced public opinion through her writing on ecosystems, global climate, hazardous wastes, desertification, wildlife, pollution of the seas and birth defects caused by pollution.

### **Arthur Beresford Archer**

172 Regency Park  
 Christ Church  
 Barbados  
 Tel: (809) 437 0163  
 Fax: (809) 426 2510

An environmental engineer and a pioneer in promoting sound environmental management in Barbados. Since 1971, he has played an important role in advancing the cause of the environment and in mobilising action towards solutions at the national and Caribbean regional levels. He organized and managed the environmental engineering division, marine water quality monitoring service, Barbados' first oil spill contingency plan, air and ground water pollution studies, initiated the occupational health monitoring service in the ministry of health in Barbados, and the environmental and health protection requirements of physical developments.

### **Adel Awad**

Dept. of Environmental Eng. Faculty Of Civil Engineering  
 Tishreen University  
 P. O. Box 1385  
 Lattakia  
 Syria  
 Tel: (963) 37042/22201

A member of key national environment commissions on marine protection, water safety and urbanism. His major contributions include pollution treatment in Syria's largest water project. His research forms the basis for water resource quality management and hydrology (sewage and stormwater networks and treatment) in large Syrian cities such as Damascus, Aleppo, and Lattakia.

### **Jean M. Belanger**

The Canadian Chemical Producers' Association (CCPA)  
 Suite 805, 350 Sparks Street  
 Ottawa K1R 7S8  
 Canada  
 Tel: (613) 237 6215  
 Fax: (613) 237 4061

President of the CCPA since 1978. In 1984, he led the industry's participation in the federal review of the petrochemical industry at which time the CCPA introduced "responsible care", a philosophy on corporate and environmental management. CCPA has introduced community awareness/emergency response programme codes of environmental practice. Belanger has succeeded in having this philosophy adopted by chemical industry associations in the US and the UK.

### **Sir David Bellamy**

The Mill House  
 Redburn, Bishop Auckland  
 County Durham  
 DL13 3NN  
 United Kingdom  
 Tel: (44 1388) 488 554  
 Fax: (44 1388) 488 550  
 E-mail: sphagnum.cix.co.uk

Botanist, writer and broadcaster. Professor Bellamy has made numerous television and radio programmes to communicate his enthusiasm and concern for the natural world. He has published some 80 papers and 34 books, many for children covering a wide range of environmental subjects. He is president, patron or trustee of numerous conservation and environmental organizations.

### **Dr. Enrique Beltran**

Cerrania 219 Insurrects Cuicuilco  
 04530 Mexico, D.F  
 Mexico  
 Tel: (525) 519 1633/606 55 22

For 50 years, Dr. Beltran has been a celebrated figure in Mexico in bringing environmental problems to the forefront of public awareness. His projects have had a great impact on the research on the environment and marine biology. He has formed the best

public library in Mexico on ecology and natural resources. Dr. Beltran was vice-president of IUCN from 1954-58 and is an honorary member of WWF.

#### **Bombay Natural History Society (BNHS)**

Hornbill House (Museum Compound)

Dr. Salim Ali Chowk

Shaheed Bhagat Singh Road

Bombay 400023

India

Tel: (9122) 244085/243869

The Bombay Natural History Society has played a crucial role in protecting India's wildlife. Started more than a century ago, the Society pioneered wildlife research in the subcontinent. This has helped save many species and habitats, for instance the restoration of the Great Indian Bustard populations. The Society has been especially successful in establishing a scientific basis for conservation and sustainable development programmes. Its publications have stimulated public interest in wildlife and conservation. The experience and achievements of the society offer valuable lessons to other conservation organizations, especially those in developing countries.

#### **Reid A. Bryson**

Center for Climatic Research

Institute for Environmental Studies

University of Wisconsin-Madison

1225 West Dayton Street

Madison, Wisconsin 53706

United States of America

Tel: (608) 262 2839

Fax: (608) 262 5964

The driving force behind the development of the University of Wisconsin's Institute for Environmental Studies and its focus on the "interdisciplinary study of the man-environment system" between 1965 and 1970. He was Director of the Institute 1970-1985. The Institute has produced scores of graduates in fields of environmental importance. Dr. Bryson is also widely known for his research on past climates, climatic change, and climate in relation to biota and history.

#### **Children's Alliance for the Protection of the Environment (CAPE)**

P. O. Box 307

Austin, Texas 78767-0307

United States of America

Tel: (512) 476 2273/258 0557

Fax: (512) 476 2301

CAPE is an action-orientated organisation uniting children and young adults in a global conservation movement. In the first two years after its founding in 1989, CAPE engaged more than 60,000 children in beach clean-ups worldwide. Today, members in 30 countries work together through CAPE-sponsored events such as International Beach Appreciation Day and the Global Clean-up Party and through participation in international reforestation and habitat preservation projects. They share ideas, knowledge, and accomplishments through *Many Hands*, the CAPE newspaper written by and for children of all ages. CAPE has produced a 140-page environmental curriculum, the CAPE Program Guide, for teachers, youth Leaders, and club sponsors.

#### **Chongololo and Conservation Clubs of Zambia**

c/o Wildlife Conservation Society of Zambia

P. O. Box 30255

Lusaka

Zambia

Tel: (260-01) 251 630

Fax: (260-01) 251 630

Email: Wcsz@Zamnet.Zm

Website: Wcsz.Org.Zm

The Chongololo and Conservation Clubs of Zambia were formed in 1972 as a national movement of young people. The Chongololo Magazine and Chongololo Guide, distributed to schools and youth clubs six times per year, provide basic information on Zambian habitats and wildlife. The 1,145 Clubs have established "action committees" to carry out publicity campaigns, tree-planting and fund raising for conservation work. The Clubs have weekly 30-minute radio programmes on the environment, in English and the vernacular.

#### **Chatichai Choonhaven**

Former Prime Minister of Thailand who showed political leadership and courage in revoking all logging concessions because of their damage to the environment, a reform sought by conservationists for decades. The 1989 decision was a landmark, proving Thailand's will to protect and manage the environment, particularly its forests.

#### **City Council of Erlangen**

Rathausplatz 1

8520 Erlangen

Germany

Tel: (49-131) 862 200

Fax: (49-131) 862 112

Erlangen (pop. 100,000) has become a model for an environment-friendly city management. In close cooperation with local representatives of associations for the preservation of nature and the environment, the Erlangen City Council has issued a series of by-laws for the enhancement of the ecological situation in Erlangen. This intensive collaboration, supported by committed public relations work, has led to a considerable improvement in the field of city ecology. An integrated refuse collection and processing programme helps to avoid the production of refuse and ensures the recycling of a high proportion of garbage and waste. The city's traffic planning is exemplary - approximately 200 km of bike paths have been developed over the past 20 years, and the use of public transport has risen by 25%. Biotopes were laid out at a cost of over US\$3 million, and in the immediate neighbourhood of the city approximately 40 hectares of wetland were restored. To date, 43% of the city zone has been declared either protected landscape area or nature reserve.

#### **Club des Amis de la Nature (CANUY)**

Universite de Yaounde

B.P. 337, Yaounde

Cameroon

Tel: (237) 22 09 55/22 09 24

An association of youth groups for the preservation of nature. Since 1981, the Friends of Nature have organised two national seminars, field and study trips to the 10 provinces of Cameroon, conferences and seminars, debates on the environment, television and radio programmes, and film shows and exhibitions on natural

resources and their degradation. CANUY subcommittees are organised by the secondary schools of Cameroon. There are 60 clubs at present.

**Barbara d'Achille** (deceased)

The late Mrs. d'Achille was a journalist. She took part in an expedition conducted by Jacques Cousteau, which stimulated her interest in the environment. Mrs. d'Achille visited the Peruvian jungles for 18 years, opposing any depredation and campaigned for national parks and sustainable development. In 1987, the Continental Bank honoured her with an award for creating awareness of conservation. During a mission to study the area of Huancavelica, Peru, she was attacked and murdered on 31 May 1989.

**Rene Dumont**

1 Rue Clos D'Orleans  
94120 Fontenay S/Bois  
France

An agronomist and a pioneer of the ecological movement and the father of environmental concern in France. He has served the French Government and FAO worldwide in agricultural and rural development projects. He fought against unsustainable agriculture, the wrong choices in economic and aid policy and the lack of consideration of the environmental impacts of investment.

**Ecology Law Quarterly**

493 Simon Hall  
Boalt Hall School of Law  
University of California, Berkeley  
Berkeley, CA 94720  
United States of America  
Tel: (510) 642 0457  
Fax: (510) 643 6171  
E-mail: ecologylq@law.berkeley.edu

Established in 1971, *Ecology Law Quarterly* was the first American law school review dealing solely with environmental law and policy. Its articles are cited frequently in court opinions, by legal institutions, and by lawyers. ELQ's articles cover the whole range of environmental law and policy and reflect widely differing philosophies and points of view. ELQ has sponsored symposia on environmental law and policy in developing countries, in the Pacific Basin and in Europe. ELQ is an important institution in the growth of environmental law and policy, in the US and throughout the world.

**Mark Edwards**

199A Shooters Hill Road  
London SE3 8UL  
United Kingdom  
Tel: (44-208) 858 8307  
Fax: (44-208) 858 2049  
E-mail: stillpictures@stillpic.demon.co.uk

One of the world's leading environmental photographers. His photographs, which are widely-used, show environmental themes in terms of human beings, often with dignity. His 20-year involvement in the field ensures that he understands the issues, which he neither demeans or sensationalises. He has built up a library of environmental photographs of outstanding quality.

**Hussain Muhammad Ershad**

Dhaka  
Bangladesh

Former President Hussain Ershad gave strong environmental leadership to Bangladesh, a nation vulnerable to present and future environmental hazards including climate change. He campaigned for an early conclusion of an international convention on protection and conservation of climate. He also proposed a global fund to help developing countries prevent environmental degradation. At the national level, former President Ershad declared 1990 as the "Year of Environment" and 1990-1999 as the "Decade of Environment" in Bangladesh.

**Dr. Jairo Escobar**

Calle 14 Esq. Av Sanchez Bustamante –Calacoto Edificio  
Metrobol  
La Paz  
Bolivia  
Tel: (591-2) 79 55 44  
Fax: (591-2) 79 59 63  
E-mail: Jairo.escobar@undp.org

Dr. Escobar, a marine biologist, has been responsible for the scientific coordination of projects at CPPS, the coordinating body of the South-East Pacific Action Plan since 1983. Dr. Escobar established marine pollution studies and environmental impact assessment in Colombia and is the coordinator of studies on the implications of climatic change in the South East Pacific.

**Fabio Jose Feldmann**

Av. Brigadeiro Luis Antonio 4.442  
4.442 01.402  
01 402 Sao Paulo  
Brazil  
Tel: (5511) 887 8228/9369  
Fax: (55 11) 884 2795

Mr. Feldmann, a lawyer and congressman, founded the Union of the Earth Defenders, an NGO active in many environmental campaigns. It played a role in reviewing the financing for several developments begun without environmental impact studies. Mr. Feldmann supported bills in Brazilian Congress to protect natural resources and endangered species. He is recognised as a leading force behind the inclusion of an environmental chapter in the new Brazilian constitution, which has provisions for land reclamation, conservation, environmental education, and the rights of indigenous peoples.

**Jose Jaime Flota**

"60 Minutos", Televisa, S.A. De C.V.  
Av. Chapultepec #18.2o Piso  
Col. Doctores  
Mexico D.F. 06724  
Mexico  
Tel: (525) 709 6820/286 4668

Mr. Flota has dedicated two decades of his journalistic career to the protection of the environment. His television series on the monarch butterfly and the sanctuaries of this endangered species played a key role in the creation of legislation to preserve it. His reportage on contamination helped create ecological awareness among the inhabitants of Mexico City and gathered support for measures to clean its heavily-polluted air. Since 1985, he has produced "60 minutes", a popular TV documentary including series on climate change and global warming. His report on Mexico's forests led to government measures to protect them.

**Ivan Fonseca**

Rua Pocas De Caldas  
165 Nanugue  
Minas Gercais  
Brazil  
Tel: (55-33) 621 1506

A doctor and ecologist, Mr. Fonseca has used his own funds for numerous efforts in reforestation and environmental conservation in Brazil. For 19 years he has been working to defend the jungle ecology of the Mucuri and Jequitinhonha areas. Since 1975, he has maintained a forest nursery with the aim of preserving the flora and fauna of the Atlantic Coast Jungle.

**Kathryn S. Fuller**

World Wildlife Fund - US  
1250 Twenty-Fourth Street, N.W.  
Washington, D.C. 20037-1175  
United States of America  
Tel: (202) 293 4800  
Fax: (202) 293 9211

Ms. Fuller became President of WWF-US in 1989. With over 3,000 projects in more than 140 countries, WWF is a leader in the conservation of the living environment by practical and positive action. Following Ms. Fuller's initiative, WWF has advanced debt-for-nature swaps as a valuable tool for easing third world debt while at the same time directing new funds into the protection of threatened ecosystems in tropical countries. Ms. Fuller is a recipient of several honorary degrees, including one from her alma mater, Brown University. She is a member of the President's Commission on Environmental Quality, the Council on Foreign Relations, and the Overseas Development Council. Before joining WWF in 1982, she served as Chief of the Wildlife and Marine Resources Section of the US Justice Department.

**Dhrubajyoti Ghosh**

370/1p NSC Bose Road  
Calcutta 700047  
India  
Tel: (91-33) 72 3548/44 2727

Dr. Ghosh has made a major environmental contribution by identifying the wetlands east of Calcutta as the world's largest resource recovery system. For almost a decade he campaigned for conservation of this great ecosystem and also developed technology options from the traditional practice of wastewater aquaculture. His wetland designs have been adopted by four other towns in West Bengal under the Ganga Action Plan of the Government of India.

**Michael Glantz**

Environmental and Societal Impacts Group  
National Center for Atmospheric Research  
P. O. Box 3000  
Boulder, Colorado 80307  
United States of America  
Tel: (303) 497 8119  
Fax: (303) 497 8125  
Email: glantz@ucar.edu

A pioneer in climate impact studies. He has initiated unique work on climate, its impact on fisheries and its role in desertification. Since 1980, he has helped develop climate and drought assessment in Africa. He also developed methods for the assessment of regional climatic change used in the US, Brazil, Vietnam and elsewhere.

**Niki Goulandris**

Director, The Goulandris Natural History Museum  
Othonos 100  
Kifissia 14562  
Greece  
Tel: (30-210) 8014813  
Fax: (30-210) 808 0674  
E-mail: goul@gnhm.gr

Niki Goulandris is known as a dynamic achiever in environmental awareness campaigns. She is an artist, naturalist, museum director, former minister of social services, past president of the Greek National Tourism Organisation, past president of the Hellenic Radio-Television and President of the Save the Children Federation in Greece. Recently, Niki Goulandris was elected "Woman of Europe" by the EC Commission, received the Order of Officier du Legion d'Honneur de la France and was appointed to the Board of Governors of the International Development Research Centre of Canada and the United Nations. With her husband Angelos, she founded the Goulandris Natural History Museum, acknowledged worldwide for promoting the study in Greek fauna and flora, for its significant scientific research in wetland and forest conservation and for its youth educational programmes. The Goulandris Museum's contribution to ecology (Delphi: Man and Environment), was awarded the "European Museum of the Year" 1984 title by the Council of Europe and has been presented the Onassis International Prize. Niki Goulandris is also an internationally-known botanical painter.

**Dr. Michio Hashimoto**

2-201 Aobadai, Midori-Ku  
Yokohama  
Japan  
Tel: (81-45) 804 982

Dr. Hashimoto has worked for 30 years in the fields of environment and public health at national and international levels. He was the driving force in the development and implementation of Japan's basic legislation on the control of pollution, particularly concerning air and water. Since 1985 he has been prominent in projects for Japan's environmental cooperation with developing countries.

**Heheng Village**

Jiangsu Province Tai County  
People's Republic of China

Traditionally, this village was poor because it was low-lying experienced annual floods each year. Before 1964, grain outputs were low and per capita income was less than 100 Yuan RMB. Today the yield is 1,710,000 kgs of grain and 59,000 kgs of cotton, with 890 Yuan RMB per capita income in 1987. The rate of forest cover has increased by seven per cent, the use of pesticides is estimated to have decreased 30 per cent and 67 per cent of all households have constructed marsh biogas ponds which provide fuel for nine months of the year. The pig farm in the village was reconstructed into an eco-farm in 1996 with the assistance of the national environmental protection agency.

**High Country News**

P. O. Box 1090  
Paonia  
Colorado 81428  
United States of America  
Tel: (303) 527 4898

A 16-page bi-weekly environmental newspaper known as “the small paper with a strong voice”, particularly in the Rocky Mountain region. It has a circulation of 12,000, but a much larger influence. In 1987 it won a prestigious George Polk Memorial Media Award for a major series on water policy in the western United States. The paper was established in 1970, and has been edited and managed since 1983 by Ed and Betsy Marston. It is financed by subscriptions, contributions, and grants and expertly covers news of water, air, land, wildlife, mining communities, and native Americans. It “covers the environment from the environmentalists’ perspective”, but has a reputation for recognising the economic as well as ecological realities of its region.

**Riel Huaorani**

Rock Petjomaltest  
Scuola Europea Ingegneria  
Villa Reale Borbonica Quisisana  
Castellamare di Stabia  
Naples  
Italy  
E-mail: Huaorani777@hotmail.com

Mr. Riel is a young Iriadamant-Micmac Indian from Canada. With a group of friends, he set up Young People’s Planet (YPP), a youth movement aimed at involving young people of all countries in environmental concerns. In 1988, “Terra dei Giovani” of Italy hosted his visit to Italy, where he addressed schools about planetary problems. In 1989 he became International President of YPP which began a “Green Mediterranean Campaign” which emphasises reforestation.

**Kazi Zaker Hussain**

University Of Dhaka  
Dhaka-1000  
Bangladesh  
Tel: (880) 502 528/506 330

Prof. Hussain, a zoologist, is the pioneer of wildlife conservation in Bangladesh. Since 1961, he has campaigned in the media and led a “Wildlife Biology” course in Dhaka University. He played a key role in saving the rhesus monkey of Bangladesh. His study of the rare Whitewinged Wood Duck has saved the bird, at least for the time being. He played an important role in persuading the Government to create the Bangladesh Wildlife Preservation Order of 1973 which led to the establishment of 14 “protected” areas.

**Milton M. Kaufmann**

President  
Monitor International  
19102 Roman Way  
Montgomery Village,  
Maryland 20886-5061  
United States of America  
Tel: (301) 948 1831  
Fax: (301) 648 1831

After serving 30 years in the US Air Force, Mr. Kaufmann started a new career as a volunteer conservationist, which he has vigorously pursued for 19 years. He founded, co-founded and

provided leadership for organizations including Monitor Consortium, USA, a coalition of 33 wildlife conservation and animal welfare groups. Monitor International has been the organization behind WIDECAST, the Wider Caribbean Sea Turtle Recovery Team in preparing sea turtle population recovery and conservation plans for 28 Caribbean governments.

**Kerala Sastra Sahitya Parishad (KSSP)**

Anayara  
Trivandrum 695 029  
India  
Tel: (91-471) 74256

The KSSP is an NGO active since 1962 in the area of environmental protection and the rational use of natural resources. KSSP is a grassroots organization with over 50,000 members of 1300 units. It won the Indira Gandhi Paryavaran Puraskar, the highest environmental award in India, in 1988. Its campaign was primarily responsible for saving the silent valley tropical evergreen forests from being destroyed by a hydro electric project. KSSP is currently engaged in a project in alternative land use practices with the participation of the people in selected hill slope areas in Kerala.

**Philip Rivogbe Kio**

Forestry Research Institute of Nigeria  
PM8 5054  
Ibadan  
Nigeria  
Tel: (234-22) 41441/414022/414073

Dr. Kio has made significant contributions to knowledge and the improvement, both theoretically and practically, of forestry and the rainforest and savannah ecosystems) in Nigeria. His 70 publications help to disseminate his knowledge and skills in these fields.

**Kitakyushu City**

Jonai 1-1, Kokurakita-ku  
Kitakyushu 803  
Japan  
Tel: (81-93) 582 2238  
Fax: (81-93) 582 2196  
E-mail: reiji\_hitsumoto01@mail2.city.kitakyushu.jp

Since 1967 industrial pollution in Kitakyushu City has been drastically improved through organised efforts among local government industries, universities and the public. Air and water pollution had reached dangerous levels requiring the city authorities to strengthen control, monitoring and investment for sewerage and industrial clean-up. Dredging of hazardous harbour sediments was performed with cost-sharing by industrial companies. Urban parks have been expanded by the city authority and industry. Kitakyushu City won the Japan Environment Agency Award in a “star watch” contest in 1987, which gave evidence of the revival of clean air in the city. The city also won the “UNCED Local Government Honours” in June 1992, in special recognition of its achievements in overcoming its severe environmental pollution and its active efforts in international environmental cooperation by making use of the experience.

**Roberto M. Klein**

Avendia Sete de Setembro, 547  
 CEP: 88.301 - 200  
 Itajai SC  
 Brazil  
 Tel: (55-473) 443442

Professor Klein, a biologist, has written more than 100 publications in Portuguese, German, Spanish and English on environmental issues. He is an influential adviser on reforestation.

**Winfried Lang**

Permanent Mission of Austria  
 9-11 rue de Varembe  
 CH-1211 Geneva  
 Switzerland  
 Tel: (41-22) 733 7750

Dr. Lang has significantly advanced the cause of the environment by contributing actively to the development of international environmental law. Between 1977-82 he was Chairman of the OECD Group on Transfrontier Pollution and participated in negotiations on the Convention on Long Range Transboundary Air Pollution from 1978-79. In 1985, Dr. Lang was President of the Vienna Conference on the Protection of the Ozone Layer and in 1987 President of the Montreal Protocol on Substances that deplete the Ozone Layer. In 1989 he published a book on international environmental law in Vienna, where he teaches at the University. He also participated in the Rio Summit. At present he is Austrian Ambassador to the United Nations in Geneva.

**Laurel Springs School**

Marilyn Mosley  
 (Oak Meadow School)  
 P.O. Box 2473  
 Ojai, CA 93024  
 USA  
 Tel: (805) 646 2473  
 Fax: (805) 646 0186  
 E-mail: mar@laurelsprings.com

In 1988, 12 high school students of Laurel Springs School decided to make a video that would inspire children to help save their planet. Their video is "We Can Make a Difference". The students wrote, filmed, edited, produced and raised all the money for the making of their video. Since receiving the Global 500 award in 1990, over one million children have seen "We Can Make a Difference". The students of Laurel Springs School remain dedicated to their cause. They have made two more videos, "Making a Difference Around the World" and "One Small Wish for this Earth" and have written two environmental workshops. This year the Laurel Springs students (aged 12-18) are performing their "Earth Hearing" workshops in schools around the country. They are also working on a fourth video.

**Philippe Lebreton**

Beynost  
 F-0 1700 Miribel  
 France  
 Tel: (32) 78 55 36 66/72 44 81 07

Professor Lebreton founded the Federation Rhone-Alpes for the protection of nature and the Ornithological Rhone-Alpes Centre in 1970/72. He has been active in the defence, creation and management of numerous national parks. He is the author of more than 200 publications on biology and the environment.

**Sietz A. Leeflang**

De Twaalf Ambachten  
 De Bleken 2  
 5282 HB Boxtel  
 Netherlands  
 Tel: (31) 04116/72621

From 1971 to 1977, Mr. Leeflang, as founder of the "Small Earth" project (*De Kleine Aarde*) in Holland, stimulated many to practice ways of life, agriculture and technical methods that preserve the environment and are on a human scale. In 1977, Mr. Leeflang and his wife left the project and started a small experimental centre for alternative techniques and working methods, called "The Twelve Trades" (*De Twaalf Ambachten*). In this centre several new techniques have been developed in the fields of water and energy saving, heating and house building.

**Dean R. Lindo**

Government of Belize  
 Buttonwood Estate  
 Belize City  
 Belize  
 Tel: (501) 0277388

Mr. Lindo was Minister of Natural Resources (1984-86) and Minister of Agriculture, Forestry and Fisheries (1986-89) of Belize. In 1985 he created the first reserve for the protection of the jaguar and in 1986 he created Belize's first marine reserve. Mr. Lindo started research at the Central Agricultural College on organic alternatives to chemical fertilizers and pesticides and brought in new legislation against the importation of dangerous commercial agricultural chemicals. In 1989, he initiated a national Tropical Forestry Action Plan, which will guide Belize towards sustainable forest exploitation.

**Joseph T. Ling**

2090 Arcade Street  
 St. Paul, MN 55109, USA  
 Tel: (612) 772 2058

Dr. Ling has contributed significantly to intellectual and scientific approaches to environmental concerns by applying the concept of waste minimization to a global industrial organization. In 1975 he inaugurated the "Pollution Prevention Pays" (3P) programme at the multinational 3M Company, where he served as Vice President of Environmental Engineering and Pollution Control. The 3P programme set an example for governments and industry worldwide. Since then the programme at 3M locations around the world has eliminated 197,000 tons of air pollutants, 17,700 tons of water pollutants, 1,600,000,000 gallons of wastewater and 432,000 tons of solid and hazardous waste. It has also saved the company nearly \$573 million. Dr. Ling has promoted the concept to industry and governments in the US, Europe, Asia, Latin America, Australia, New Zealand and South Africa.

**James Lovelock**

Coombe Mill  
 St. Giles on the Heath  
 Cornwall PL15 9RY  
 United Kingdom  
 Tel: (44-04566) 84721

In 1986 Professor Lovelock became President of the Marine Biological Association of the UK. He has published numerous papers and secured many patents over a wide field of environmental science. His contributions to the science of atmospheric chemistry are notable. He is perhaps best known for his "Gaia" hypothesis on the interdependence of life on the planet.

**Jom Malai**

Tha-Sadei Bird Conservation Unit  
Maung District  
Supunburi 72000  
Thailand

Mr. Malai, a farmer, lives about 100 kms north of Bangkok where 20 years ago he established his mango orchard as a habitat for the Night Heron, Cattle Egret Cormorants, the Open-billed Stork and other species. Today, his conservation work is assisted by the Royal Forestry Department. His area has been declared a Bird Conservation Unit. "Uncle Jom's" story has been praised in the international media and he is recognised by the Thai government as the best individual wildlife conservationist.

**Elizabeth May**

412-1 Nicholas Street  
Ottawa, Ontario K1N 7B7  
Canada  
Tel: (613) 241 4611  
Fax: (613) 241 2292  
E-mail: emay@sierraclub.ca

Ms. May, an environmental lawyer, has been active in the field since 1976. Her activities include working with the Haida people in British Columbia to establish a national park on South Moresby Island. As Executive Director of Cultural Survival (Canada), she works for the protection of forests and indigenous cultures in Brazil and Canada. She is also the national representative for the Sierra Clubs of Canada.

**David McTaggart**

Greenpeace International  
Qracht 167 Centrum,  
Amsterdam  
The Netherlands  
Tel: (31-20) 52 36 555

Mr. McTaggart was a founder of Greenpeace International and has been the organization's chief spokesman and Chairman since 1979. In 1972 McTaggart sailed to French Polynesia to protest against French nuclear tests near Mururoa Atoll. This was the beginning of the many campaigns by Greenpeace against nuclear tests and whaling. The organization has grown to three million members in 21 countries.

**Anna H. Merz**

Ngare Sergoi Rhino Sanctuary  
c/o Lewa Downs Ltd  
Private Bag  
Isiolo, Kenya  
Postal Address - c/o Chris Flatt  
P.O. Box 56923  
Nairobi, Kenya  
Fax: (254-2) 501424

In 1982, Mrs. Merz invested all her savings, time and energy in the creation of the rhino sanctuary at Lewa Downs Ranch in Kenya. There have been many difficulties - including drought and poachers - but today there are eight white rhinos and 13 black rhinos in the sanctuary. Eleven black and four white calves have been born including a black female who was hand-reared by Mrs. Merz from birth and is now seven and half years old and living free with the other rhinos.

**Christine Milne**

GPO Box 682  
Hobart, Tas. 7001  
Australia  
Tel: (61-418) 127 151  
E-mail: christine.milne@aph.gov.au

Ms. Milne, by profession a school teacher, was awarded an Australian Bicentennial Award for her achievements in protection of the environment. In 1989 she was elected as a "Green Independent" to the Tasmanian Parliament. Christine Milne's achievements in lobbying government and industry demonstrated that individual action can be effective in conserving forest environments from non-sustainable exploitation by industry.

**National Mobilization Programme (NMP)**

Government of Ghana  
Accra  
Ghana  
E-mail: epainfo@ghana.com

NMP was established in 1983 to mobilise human and material resources to rehabilitate key sectors of the Ghanaian economy. NMP has organised volunteers in towns and villages to identify pressing ecological and social problems and help solve them. Over 200,000 volunteers have planted millions of cocoa seedlings and rehabilitated several thousand acres of burnt out cocoa farms, thus helping to increase output of cocoa, the main export crop. Volunteers of NMP are also active in bushfire suppression and the improvement of village wells and sanitation. In 1983, the NMP successfully organised the evacuation and resettlement of 1.2 million Ghanaians repatriated from Nigeria and Cote d'Ivoire, thus avoiding a potential environmental disaster.

**Mark Dokotela Ncube**

Department of Natural Resources  
P.O. Box 132  
Gwanda  
Zimbabwe  
Tel: (263) 184 260

Mr. Ncube has developed his mixed farm in Matabeleland South on conservation principles. His land surrounds a swamp, which he has preserved by planting grasses, which also serve as grazing for cattle. He pipes water from the swamp to reservoirs from which he irrigates, waters stock, and draws domestic supply. Mr. Ncube has shown how wise conservation can contribute to successful production. He was awarded the Zimbabwe Natural Resources Certificate of Merit. Mr. Ncube has shown that protection of swamps assists farming in dry areas and his farm is a green oasis.

**Michael A. N. Odula**

CAPE-KENYA  
Rusinga Island  
P. O. Box 135  
Mbita  
Kenya

Ten years ago, Mr. Odula, a High School headmaster on Rusinga Island, began an environmental conservation and education programme involving thousands of primary and secondary school children in planting trees, soil conservation, and a central tree seed-bank.

**Dr. Gunavantraï Oza**

International Society of Naturalists  
Oza Building, Salatwada  
Baroda 390001  
Gujarat  
India  
Tel: (91-265) 428 703  
Fax: (91-265) 421 009  
E-mail: insona@123india.com

Dr. Oza, a botanist, is a member of the IUCN Commissions on Ecology, National Parks and Protected Areas and on Education and Communication and Emeritus Member of the Species Survival Commission. Mr. Oza is the Founding Editor of *Environmental Awareness* - a quarterly journal. He carried out field studies for nearly two decades in the Dachigam Sanctuary to assess the status of the Hangul (Kashmir Deer), and to protect it from threatened extinction.

**Paulinho Paiakan**

Avenida Braulia Venceslau Gurjao  
No. 337  
68550 Redencao  
Para  
Brazil  
Tel: (55-91) 424 0811  
Fax: (55-91) 424 0811

Chief Paiakan of the Kayapo tribe of Brazil has long campaigned against hydro-electric dams, which threaten to destroy parts of the Amazonian rainforest. He has been making it clear to bankers and politicians that his people are dependent on the rainforest for survival and that the dams can cause pollution and deforestation.

**Vasiliy Peskov**

V-Maslovka St. 11-5  
125083 Moscow  
Russia  
Tel: (7095) 25 72 022

Mr. Peskov is a journalist and ecologist who, for 15 years has been conducting the weekly Soviet TV programme "The World of Animals." He lectures extensively on the Antarctic, Africa and North America.

**Population and Community Development Association**

8 Sukhumvit 12  
Bangkok 10110  
Thailand  
Tel: (622) 256 0080-97  
Fax: (622) 255 8804

The Population and Community Development Association (PDA) and the Wildlife Fund Thailand (WFT) initiated a rural development project for conservation in three parks near one of Thailand's endangered national parks. Currently the project has been expanded to include a total of six villages. It aims to preserve wildlife and forests offering people economic incentives and improvements in their quality of life. Begun in 1985, the project established environmental protection societies, which give low-interest loans to villagers if they promise to conserve trees and wildlife, and also training in agriculture, health, forestry and conservation. The activities of most villagers have thus been deflected from illegal logging and hunting towards the protection of their environment.

**Raulino Reitz**

P.O. Box 30  
88220 Itapema - SC  
Brazil  
Tel: (55-473) 442725

For half a century, Father Reitz has worked for the preservation of the environment in Brazil. Mainly thanks to his efforts, 750 hectares of Botanical Park was established in 1961 in Santa Catarina. He was instrumental in the creation of the ecological stations of Taimbes, Carijos and Babitonga, between 1976 and 1986. He initiated protection of endangered fauna covering 40 species of animals. Beginning with 51 animals, his project now helps more than 1,000 people. An accomplished researcher, Reitz has discovered five new genera and 327 new species of plants in Brazil and he has written extensively on botany and ecology.

**Iosefatu Reti**

c/o South Pacific Regional  
Environment Programme  
P. O. Box 240  
Apia  
Western Samoa  
Tel: (685) 21929  
Fax: (685) 20231  
E-mail: sprep@pactok.peg.apc.org

Mr. Reti, one of the first Western Samoans trained in forestry, rose to become the Conservator of Forests and head of the Forestry Division, positions which had previously been held by expatriates. He provided strong support to the development of the national park and reserve system in his country, which has set an example for all of the South Pacific. In 1985, he was named Regional Co-ordinator of the South Pacific Regional Environment Programme (SPREP) at the South Pacific Commission. He returned in 1989 to head the Environment Office for the Government of Western Samoa. He was a Regional Councilor of IUCN (1986-1990) and has supported many efforts to strengthen nature conservation and protected areas activities in the region.

**Fiona Reynolds**

Council for the Protection of Rural England  
Warwick House  
25 Buckingham Palace Road  
London SW1W 0PP  
United Kingdom  
Tel: (44-207) 976 6433  
Fax: (44-207) 976 6373  
E-mail: info@cpre.org.uk

An environmental campaigner and lobbyist. Secretary of the Council for National Parks (1980-87) campaigning successfully against quarrying schemes in national parks and lobbying successfully for improvements in legislation for national parks. As Assistant Director for Policy of the Council for the Protection of Rural England since 1987, Ms. Reynolds has campaigned successfully for environmental improvements in planning and water legislation. She is at present Director of the Council for the Protection of Rural England (1992).

**Chae Shik Rho**

89-2 Neung-Dong  
Seoul  
Republic of Korea  
Tel: (82-42) 861 4552  
Fax: (82-42) 861 1700

Dr. Rho organized the 1975 National Conference on Human Environment which identified Korea's environmental problems, relating national development to environmental protection. He played an important role in the National Data Center for Environmental Pollution and the Environmental Affairs Forum. Recommendations by Dr. Rho have been adopted in the Korean Environmental Preservation Law. He has also been Editor-in-Chief of the Bulletin of Korea Environmental Preservation Association since 1978. At the national level, Dr. Rho was the leader of the drafting committee of the Presidential Declaration on Environment in 1991. He is the Chairman of the Korea Research Council on Environmental Sciences which consists of 20 academic environmental science and engineering societies.

**Klaus Scharmer**

Dohrer Weg 2  
W-5170 Julich  
Germany  
Tel: (49-2) 461 1323

Mr. Scharmer has, since 1973, promoted development of renewable energy, especially in India and Egypt. His work has been concentrated on the application of renewable energy - especially solar, thermal, and biomass - to basic problems in developing countries. Since 1983 Mr. Scharmer has promoted use of biomass from vegetable oil plants as fuel for engines, boilers and high protein feed for animals. The system has the potential to reduce desertification and atmospheric pollution. Recent work concentrates on the production and use of biomass and its impact on global CO<sub>2</sub>-balance.

**Mr. Roque Sevilla**

Whymper 1210  
Casilla No. 21-443  
Quito  
Ecuador  
Tel: (593-2) 547 011

Mr. Sevilla has played a key role in motivating public opinion on the conservation and management of natural resources. He founded Nagura, an NGO which promotes legislative measures, among them the creation of the Parliamentary Commission for the Environment, and the Directorate for the Environment in the Ministry of Energy. Since 1985, Mr. Sevilla, has headed the Latin American Action Network to control the use of pesticides. As National Forestry Director, Mr. Sevilla established "protected status" for the Biological Reserve of Limoncocha in Amazonia.

**Kantilal Jivan Shah**

P.O. Box 699  
Mahe  
Seychelles  
Tel: (248) 322 310  
Fax: (248) 324 137

For nearly 30 years, Mr. Shah has been active in conservation and environmental activities which resulted in the creation of Marine National Parks and Nature Reserves. He has also been instrumental in establishing coastal and nature reserve management, protection of sea turtles and the conservation of mangrove swamps. He has brought environmental issues and the need for conservation to the forefront of public awareness. Mr. Shah has been involved in the passing of the following legislation: creation of Ste. Anne Marine National Park; Vallee de Mai Reserve; Port Launay Marine National Park, the Protection of Shells Act; Animal and Bird Protection; Controlled Cropping of Seabirds' Eggs; Protection of Turtles; and the Seychelles Marine Mammal Sanctuary.

**John Sinclair**

36 Kemp Street  
Gladesville, NSW 2111  
Australia  
Tel: (612) 9817 4660  
Fax: (612) 9816 1642  
E-mail: john@sinclair.org.au

Since 1971, John Sinclair has led the Fraser Island Defenders Organisation's campaign to protect Fraser Island, the world's largest sand island off the coast of Queensland. This difficult campaign resulted in all logging and mining being banned. A world class National Park has been created to protect its specialised ecology and topography, with unique perched dune lakes and rain forest. Fraser Island is now inscribed on the World Heritage List. Mr. Sinclair was "Australian of the Year" in 1976. He has served in Australia's voluntary conservation movement, including the Australian Conservation Foundation, for more than 25 years, in senior leadership roles. He has also served on IUCN Commissions.

**Snake in the Grass Moving Theatre**

4131 Garry Street  
Richmond, B.C.VZE 2T9  
Canada  
Tel: (604) 277 9538

Founded in 1978, the Snake in the Grass Moving Theatre presents educational programmes for schools and the public, and has created many original productions ranging from theatrical interpretations of new ideas in biology and ecology to the dramatisation of various world mythologies. In recent years the company has focussed on productions which examine some root causes of the global environmental crisis, including the critical dangers involved in the exploitation of the natural world and of indigenous cultures which truly revere that world.

**Godofredo Stutzin**

Camino El Alto 17220  
Lo Barnechea  
Santiago  
Chile  
Tel: (562) 321 6028  
Fax: (562) 269 1978  
E-mail: mestutzin@hotmail.cl

In 1955, Dr. Stutzin, a lawyer, founded the Union of Friends and Animals and in 1967 the National Committee for the Defense of Fauna and Flora (CODEFF). He is a member of the IUCN Species Survival Commission and a member of the IUCN Environmental Law and Policy Commission. Dr. Stutzin has written extensively on nature conservation and animal protection. He campaigned successfully on Chile's ratification of CITES and was instrumental in lobbying Chile to put an end to whaling. In 1976, Mr. Stutzin initiated the successful campaign to preserve Lake Chungara, the highest lake in the world.

**Sayyid Shabib Bin Taimour**

Ministry of Environment  
P.O. Box 323  
Muscat  
Oman  
Tel: (968) 696 464

Under his leadership as the first Minister of Environment in the Sultanate of Oman, a national conservation strategy based on the principles of sustainable development was adopted. He has managed to insert environmental dimensions into all development plans in Oman. He is active in the Regional Organization for the Protection of the Marine Environment (ROPME). He was Chairman of the Council of ROPME 1986-88 and an important force in refocussing ROPME's programme towards coastal zone management, sustainable development, and clearance of the area from war-related sea pollution.

**Bassirou Tall**

Grand Yoff Leona, Villa no. 102  
Bp. 17865  
Dakar-Liberte  
Senegal  
Tel: (221) 633 5257  
E-mail: tall.bassirou@caramail.com

In 1986, Mr. Tall formed the Association of Pioneers of Reafforestation in Senegal to fight against desertification. Since 1983, he has led students in planting thousands of trees in rural and urban areas. He has assisted in the organization of international seminars on reafforestation.

**Phra Ajahn Pongsak Tejadhammo**

Dhammaaat Foundation for Conservation  
and Rural Development  
P. O. Box 52  
Chiangmai University  
Chiangmai 50002  
Thailand  
Tel: (66-053) 248 209  
Fax: (66-053) 211 560

From an understanding of forest functions gained through 38 years of retreats in the wilderness, Phra Ajahn Pongsak became acutely aware of the direct link between forest destruction and the increasing hardship suffered by lowland villagers. In response to this crisis, the Dhammaaat Foundation was set up to promote this

awareness and fund activities arising from this understanding. Their pioneer project in the Mae Soi Valley illustrates how these principles are put into action, where conservation and reforestation is being implemented alongside the provision of sustainable livelihoods and resource management. He has gained wide recognition for his work both nationally and internationally.

**Margaret, The Lady Thatcher**

House of Lords  
London  
UK

Lady Thatcher gave environmental concerns prominence in the national and international agendas of the British government. In major policy speeches in 1988, she strongly advocated increased international attention to, and action against, the threat of climate change caused by the effects of global warming, the atmospheric build-up of "greenhouse" gases. In association with UNEP, Lady Thatcher convened major international conferences in London in 1989 and 1990 seeking agreements to increase protection of the ozone layer.

**The Una Emeralds Society**

Brace Zardin 1  
77000 Bihac  
Yugoslavia  
Tel: (38-77) 331 007

The Society has 24,000 members and aims at popularising the protection of the environment among the young. The Society has lobbied to have the environment included in the syllabus of schools and has an annual journal devoted to nature. For three years the Society has organised a school for talented young painters (10-15 years old) who spend 10 days each year by the Una River painting nature. The more successful works tour many schools.

**UNESCO Club of the University of Yaounde**

B.P. 337 - S/G Club UNESCO  
Yaounde  
Cameroon

The UNESCO Club of the University of Yaounde has been active since 1976 in mobilising the public about Cameroon's and Africa's environmental problems including deforestation and soil erosion. The Club has also campaigned for the protection of wild animals and publicised the issues of toxic waste.

**Maria Aida Velasquez**

Lingkod Tao-Kalikasan  
Secretariat for an Ecologically Sound Philippines)  
P. O. Box 2734  
Manila 1099  
Philippines  
Tel: (63-2) 501 524

Sister Velasquez is a Benedictine Nun with degrees in chemistry. Since 1976, she has devoted herself to the environmental cause by initiating public awareness programmes, environmental and training activities and field projects in urban and rural areas of the Philippines. Amongst her major campaigns were the Bataan Nuclear Power Plant debate to close the plant; and a campaign against pollution of Calancan Bay. For her achievements the Philippines Department of Natural Resources and Environment gave her the "Likas Yaman" award in 1988.

**Mallika Wanigasundara**

A 3/1 Government Flats  
Hospital Road  
Dehiwala  
Sri Lanka  
Tel: (94) 714420

Ms. Mallika Wanigasundara has been a well-known journalist in Sri Lanka for more than 30 years. She has worked on the *Observer* and the *Daily News* published by the Lake House group of newspapers, in Colombo. She is now a freelance journalist and a foreign correspondent contributing to Depthnews (Asia) based in Manila, Panos Institute in London, and the IPPF journal *People and the Planet*. She also continues to contribute to the *Observer* and *Daily News* in Sri Lanka. She specialises in developmental, environmental and children's issues.

**Arthur H. Westing**

RFD 2, Box 330H  
Putney, VT 05346  
United States of America  
Tel: (802) 387 2152  
Fax: (802) 387 4001

Dr. Westing, an ecologist, is prominent in the field of study of the security aspects of global environmental issues. He has worked mainly at the International Peace Research Institutes in Stockholm and Oslo. He was active in the scientists' campaign to stop military use of herbicides in Vietnam. His publications have influenced official and public opinion on environmental and resource factors in strategic and military policy, including the longterm ecological and human consequences of conflict.

**Mr. Vivian John Wilson**

P.O. Box Ac 1310,  
Ascot, Bulawayo  
Zimbabwe  
Tel: (263-9) 286603/286460  
Fax: (263-9) 286460  
E-Mail: Duiker@Ecoweb.Co.Zw  
Website: Wwww.Chipangaliresearch.Org.Zw

In 1973, Mr. Wilson started the Chipangali Wildlife Orphanage. Its work involves rescuing trapped or injured wildlife, caring for orphaned animals, returning captive animals to the wild, establishing breeding groups of endangered African wildlife, research into wildlife and ecology, and education of the public, particularly children, in all fields of conservation. In addition, Mr. Wilson is carrying out surveys on the distribution of cheetah in Zimbabwe and on protection of the Chirinda forest. Mr. Wilson, a biologist, won the Rolex Enterprise Award in 1987 for his research on the duiker. He is chairman of Zimbabwe Parks and Wildlife Board.

**Mohamed Zahir**

MA. Kinaaraa House  
Mirihi Magu  
Mahe, 20-03  
Republic of Maldives  
Tel: (960) 32 7212  
Fax: (960) 32 3103

A journalist and writer on the environment. His weekly page in the daily, *Haveeru*, has been published for four years, generating environmental awareness in the public and government. Mr. Zahir has brought to the attention of government the alarming coral reefs base crack which led to an investigation by experts. He is a member of VESHI, an NGO committed to sustainable development and the stopping of environmental degradation. Mr. Zahir was honoured with the National Award of Encouragement in 1989 for his outstanding services to the environment.



## 1991 GLOBAL 500 LAUREATES

### **Murlidhar "Baba" Devidas Amte**

Anandwan  
Via Warora  
District Chandrapur  
Maharashtra 442 914  
India

Twenty years ago, Mr. Amte, popularly known as "Baba", established Anandwan, a settlement for leprosy victims in central India. Anandwan now houses 2,500 leprosy victims and 500 blind children who grow food by using fertiliser produced from biogas reactors. They also produce energy for cooking and lighting by feeding organic matter and human excrement into the central biogas unit. Recently, Anandwan adopted North African technology, which enables them to building the roof structures of houses without using wood. "Baba" Amte has also directed efforts toward saving forests and indigenous populations from the degradation caused by dam projects.

### **Joaquin Araujo**

Avda. de America, No.8  
28028 Madrid  
Spain  
Tel: (34-1) 726 03 43  
Fax: (34-1) 726 03 43

Mr. Araujo farms, writes and directs nature documentary films. His lectures on ecology and his newspaper and magazine articles aim at raising public awareness and protecting the environment. He is the author of 16 books, some 400 articles and has given over 300 lectures to universities throughout Spain. Araujo has directed several documentary series for television, founded several Spanish environmental societies and served as President of the first State Centre for Environmental Education in Spain.

### **Biplab Bhushan Basu**

School of Fundamental Research  
9/B Tollygunge Road  
Calcutta 700026  
India  
Tel: (91-33) 423348  
Fax: (91-33) 281620/286604

Mr. Basu founded the Young Scientists Society in Calcutta in 1964, now called the School of Fundamental Research. The School has dedicated 28 years to spreading scientific and environmental awareness to the grassroots by developing innovative environmental management programmes. The Natural Forest Revival Programmes have regenerated more than 7,000 hectares of natural forest by adding millions of tree saplings to degraded forested areas. Over the last five years more than 3,000 hectares have been protected from soil erosion and more than 5,000 hectares of wasteland could be biologically reclaimed. Basu has conducted over 100 training camps for village youths and his school comprises 200 active eco-volunteers.

### **BAUM**

The German Environmental Management Association  
Tinsdater Kirchenweg 211  
2000 Hamburg 56  
Germany

In 1984, BAUM ("Tree") - the German Environmental Management Association - was founded by Mr. Winter, a German entrepreneur. This integrated system of environmental management was the first and only systematic attempt to provide businesses with practical checklists on environmentally sound behaviour from production to marketing and transportation to training. Since its founding, BAUM's membership has grown from 10 to 250 companies. In 1991, organisations will join to create the first international, independent, industry network devoted to helping business cope with environmental issues.

### **H. R. H. Prince Bernhard of the Netherlands**

World Wildlife Fund for Nature (WWF)  
WWF-Netherlands  
P.O. Box 7 3700 A  
Zeist  
The Netherlands

In 1961, His Royal Highness Prince Bernhard of The Netherlands founded the World Wildlife Fund (WWF). He was president of WWF for 15 years, and during this period developed it into an influential global organisation and the largest worldwide non-governmental organisation in the field of nature conservation. He has successfully raised funds to finance conservation activities and projects in all countries where WWF is active. He is also President of WWF-Netherlands and in that capacity launched a television fundraising campaign in the Netherlands in 1977, which raised six million Swiss Francs for WWF funded projects. A television programme in 1987 raised over 100,000 new members for WWF-Netherlands. Thirty years after the founding of WWF, Prince Bernhard continues actively to convey with great enthusiasm the message of conservation through encouraging those active in the field of nature conservation and numerous radio and TV presentations.

### **Gertrude Duby Blom**

Na-Bolom  
Av. Vicente Guerrero 33  
San Cristoral de Las Casas  
Chiapas 29220  
Mexico

In 1943, Ms. Blom joined the first Mexican government-sponsored expedition through the highland Mayan villages of the Chiapas rainforest on muleback. There she met the Lacandons, a group of Mayans who had been isolated from civilisation for almost three centuries. This peace was shattered when private and commercial greed for the mahogany in the Lacandon rainforest stimulated massive road building and tree cutting into their area. Blom supported the Lacandons by writing, photographing, and publishing articles about the Lacandon culture. Today, at 89 years of age she continues to seek solutions to the ecological problems devastating local and worldwide indigenous populations.

**Jim Brandenburg**

1715 Meadowwoods Trail  
Medina Minnesota,  
MN 55356-9311  
United States of America

For 15 years, Mr. Brandenburg took photographs for National Geographic magazine, winning many international photography awards. He has been a member of the Board of Directors at America's premier environmental learning centre, Wolf Ridge, for 15 years. This group teaches over 10,000 young people annually. In 1989 he founded Concerts for the Environment, a national non-profitmaking organisation dedicated to raising consciousness and support for environmental concerns through music. He has taken a portfolio of photographs for the Nature Conservancy to inaugurate their prairie conservation programme.

**Lynton Keith Caldwell**

4898 East Heritage Woods Road  
Bloomington, Indiana 47401  
United States of America  
Tel: (812) 336 5901  
Fax: (812) 855 5678

Dr. Caldwell has participated in numerous environmental projects with the UN, UNESCO, OAS, IUCN and the International Joint Commission of Canada and the United States of America. He has published 10 books and over 200 scholarly articles. He was a leading participant in the drafting of the United States of America's National Environmental Policy Act (NEPA) of 1969 and the principal elements of this Act are now being utilised by 30 governments and international agencies in the USA, Australia, Canada, Japan, and the European Community. Dr. Caldwell has served on numerous scientific policy boards and commissions. He is a Fellow of the Royal Society of Arts, among others, and an honorary member of the International Association for Impact Assessment.

**Dr. Chul-Whan Cha**

Korea University 4  
Institute for Environmental Health  
2-ga Myungyun-dong  
Chongro-Gu  
Seoul  
Korea

Dr. Cha initiated the promotion of environmental education and preservation in Korea. His study on "Public Nuisance in Seoul, Pusan and Daegu Cities" convinced the government to include pollution control in their five year Master Plan for Economic Development. Dr. Cha contributed to the establishment of the organisation for environmental studies and founded the Institute for Environmental Health at Korea University in 1973. In 1982, the Korean government awarded him the prestigious National Medal for his environmental achievements.

**Conservation Council of New Brunswick**

180 St. John Street  
Fredericton  
New Brunswick E3B 4A9  
Canada  
E-mail ccnbcoon@nb.aibn.com

The foremost environmental public interest group in New Brunswick. Work is implemented by volunteers whose objectives

are to generate public awareness and to promote environmentally sound policies. These objectives are pursued through public speaking, publications, projects and community campaigning. To focus public attention on groundwater pollution, the New Brunswick government created the Clean Water Act in 1989, establishing groundwater protection zones, chemical monitoring requirements, and legally enforceable safe drinking water standards.

**Keith Frederick Corbett**

Pinetree Lodge  
30 Endfield Road  
Moordown  
Bournemouth  
Dorset, BH9 1 TH  
United Kingdom

For over 20 years Mr. Corbett has championed the cause of reptile and amphibian conservation. In 1967, he funded a project investigating the status, ecology, and conservation needs of *Iacerta agilis* and two associated herpetiles. His findings were instrumental in initiating the UK wildlife legislation in 1975 that protected the three species. He has also founded the Conservation Committee of the British Herpetological Society, the Association of Croydon Conservation Societies and initiated habitat management and re-introduction projects into regional and national conservation strategies.

**Herbert Jose de Souza**

Brazilian Institute of Social  
Economical Analysis (IBASE)  
Vicente de Souza Street, 29 Botafogo  
Rio de Janeiro 22251  
Brazil

Mr. De Souza, also known as "Betinho", is a sociologist, economist and author. He was head of the national Campaign for Agrarian Reform and founded the Brazilian Institute for Socio-Economic Analysis (IBASE). De Souza campaigned for Amazonian Indians and rain forests by co-authoring *Tregda Ecologica para a Arnazonia* (Give Peace to Amazonia), a publication advocating eco-development in the Amazonas. In 1988 he coordinated the Se Liga Rio (Pay Attention Rio) movement, offering an answer to city violence, pollution and surrounding deforestation. With the help of IBASE he and others organised *Terra e Democracia* ("Earth and Democracy"), the biggest ecological event in Brazilian history dedicated to the Amazon and Indian nations.

**Environment Telephone of Vereniging**

Milieudefensie  
Damrak 26  
1012 LJ Amsterdam  
Netherlands  
Tel: (31-20) 626 2620

Many people have questions about paint, detergents, their car or the nasty smell coming from a nearby factory. The "Environment Telephone" is ready to answer questions from consumers about the environment at home, in the neighbourhood, in their workplace and during their leisure. The workers of the "Environment Telephone" have access to an extensive documentation system, as well as a network of people and organisations.

**Malin Falkenmark**

Natural Science Research Council  
P. O. Box 6711  
S-113 85 Stockholm  
Sweden

A professor of International Hydrology at the Natural Science Research Council, she presently serves as a consultant on water-scarcity issues to the FAO and the World Bank, and chairs the International Water Resources Association's Committee on Water Strategies for the 21st century and the Working Group on the International Geosphere Biosphere Programme for the International Association for Hydrological Sciences. Dr. Falkenmark is the author of over 150 water science publications and her recent studies in environmental management include climate change, water scarcity implications for Third World development, and the links between terrestrial ecology and hydrology.

**Philip Martin Fearnside**

National Institute for Research  
in the Amazon (INPA)  
C.P. 487  
Manaus-Amazonas  
Amazon  
Brazil  
Tel: (55 92) 236 9683  
Fax: (55 92) 236 3822/0255

A research professor in the Department of Ecology at the National Institute for Research in the Amazon (INPA) in Manaus, Amazonas, Brazil. In 1972, his study of the human carrying capacity on the Osa Peninsula in Costa Rica convinced the Costa Rican national congress to create the Corcovado National Park. He has authored hundreds of publications on the environment and his work culminated in the creation of the Ouro Preto do Oeste Ecological Research Reserve. In 1988-89 he examined the environmental impacts of major World Bank projects around the world. He has special interests in the process and impacts of deforestation on the greenhouse effect.

**Fleurir Maurice Committee M.G.T.O.**

Emmanuel Anquetil Bldg  
Sir S. Ramgoolam Street  
Port Louis  
Mauritius  
Tel: (230) 212 6975  
Fax: (230) 212 6671  
E-mail: equal@bow.intnet.mu

The "Fleurir Maurice" Committee, a pioneer in ecological concerns, was set up in Mauritius in 1967 with the objective of protecting and embellishing the environment. An extensive awareness campaign is carried out through the media, posters, youth clubs, schools and colleges, women's associations, municipalities and district councils. A nationwide, annual "Fleurir Maurice" competition is organised and awards are presented to the best houses, schools, colleges, hospitals, industrial estates, sugar factories, villages, beaches and hotels in each of the four District Councils areas and the five towns of Mauritius. Nursery projects in schools, cleaning of beaches, placing kilns at the base of filaos trees to prevent people from damaging them when cooking food, and "Operation Force Verte" which consists of extensive tree planting along highways, main roads and mountain slopes.

**Alegria Fonseca Barrera**

Fundacio Alma  
Calle 100 No. 11B-95 of 201  
Bogota  
Colombia

Ms. Fonseca is a member of the Colombian Parliament, and a lawyer who succeeded in reversing the decision of the government to build a tourist hotel in the National Park of Tayrona. She also defeated a decision to construct an industrial area in the National Park of Salamanca Island and initiated the Forest Action Plan for Colombia. She is the founder of the Alma Foundation dedicated to monitor and educate people about the natural environment. Ms. Fonseca also stimulates public awareness through writing books and radio programmes, and has launched reforestation, tree nursery and community projects by organising a reforestation unit in every community.

**Walter Atilio Fontana**

Fundacion de Accion Ecologica  
Casilla de Correo 519, Correo Central  
Codigo Postal 5000  
Cordoba  
Argentina  
Tel: (54-51) 512 631  
Fax: (54-51) 244 092  
E-mail: foroecologista@bigfoot.com

When Mr. Fontana was only 15 years old he was already a dedicated ecologist. At 22 he was an environmental writer and in 1984 he founded the Juvenile Action and Ecological Fight Centre (CALEJ), which promotes environmental education using mass media and teachers. Since 1989, he has presided over the Fundacion de Accion Ecologica and organised over 60 courses for teachers and social instructors. In 1990 he became president of the organising committee for the "World Year of the Children and the Environment" held in 18 Argentine cities. He is director of an environmental magazine *Foro Ecologista* ("Ecologist Forum") and writes and directs radio programmes.

**I. T. Frolov**

Academy of Sciences of Russia  
Volkhonka 14  
119842 Moscow  
Russia  
Tel: (7095) 203 9169  
Fax: (7095) 203 9169

Mr. Frolov is the author of a number of booklets devoted to the philosophical aspects of the environment and the global problems facing humanity. He was also chief editor of a number of publications related to similar subjects. Frolov now heads the Scientific Council on Philosophical and Social Problems of Science and Technology of the Academy of Science of Russia. Frolov is a member of the International Board of the Ecoforum and Peace movement.

**Bjorn Olov Gillberg**

Miljocentrum  
Ullsayvagen 14  
756 48 Uppsala  
Sweden  
Tel: (46-18) 30 00

Mr. Gillberg is the founder and director of Sweden's most influential environmental advocacy group, Miljocentrum. For 19 years he has been the publisher and editor of the monthly journal *Miljo och Framtid* ("Environment and the Future"). He initiated anti-pollution lawsuits, which have improved national legislation, and through his efforts, industry has now adopted pollution abatement measures. The numerous lawsuits he has won to compensate victims of environmental abuse have had wide publicity in the media.

**Julian Gonsalves**

International Institute of Rural  
Reconstruction  
Silang  
Cavite 4118  
Philippines  
Tel: (63) 0969 9451

Dr. Gonsalves developed a training and education programme promoting the adoption of environmentally-sound methods of food production in the Philippines and other Third World countries. The programme focuses on problems of deforestation, soil erosion, fuel shortages, pesticide mismanagement, deterioration of rice eco-systems, loss of genetic resources and related stress on rural social systems. Specialists from more than 100 government and non-governmental agencies have been trained to adapt and disseminate these strategies in different countries in Asia, Africa and Latin America.

**Parvez Hassan**

Hassan & Hassan (Advocates)  
PAAF Building  
7D Kashmir Egerton Road  
Lahore  
Pakistan  
Tel: (92-42) 360800 - 03  
Fax: (92-42) 360811 - 12

Dr. Hassan is a leading corporate lawyer who has been actively involved in drafting conservation legislation with governments since 1975. The 1983 Pakistan Environmental Protection Ordinance is legislation proposed by Dr. Hassan. Since 1987, he has prevented contamination of ground water from untreated tannery wastes in the city of Kasur. In 1989, he formed the Environmental Protection Society of Pakistan. He has been IUCN's regional councillor for West Asia and deputy chairman of the Environmental Law Commission. Dr. Hassan also chairs WWF's Scientific Committee and is a member of the Pakistan Environmental Protection Council, the highest official body on environmental matters in Pakistan.

**Donald James Henry**

Australian Conservation Foundation  
340 Gore Street  
Fitzroy, VIC 3065  
Australia  
Tel: (613) 9416 1166  
E-mail reception@acfonline.org.ar

Mr. Henry campaigned against tourism development in Lindeman Island National Park and in the rainforests of north Queensland. As director of the Wildlife Preservation Society of Queensland and editor of *Wildlife Australia*, Henry has succeeded in generating grassroots support for conservation among rural people. He has also been appointed a commissioner with the Australian Heritage Commission and environmental adviser to the Brisbane City Council. Henry is president of the Moreton Island Protection Committee and the Australian Committee for IUCN. He sits on the Natural Environment Committee of the National Trust of Australia.

**Hoogovens Aluminium**

HUTTENWERK GmbH  
Dr. W. Weuster  
Schleusenstr.  
4223 Voerde  
Germany  
Fax: (49-281) 408468

Hoogovens Aluminium is a smelter plant located on 227 acres of which 195 acres have been developed into a nature reserve. In 1976, 140,000 native trees and bushes were planted, attracting hundreds of wildlife species. Two large ponds were built in 1980 and 1987, which attracted amphibians, ducks and herons. An additional 50 acres has also been set aside as a forest, making it possible for cattle to graze without the risk of fluoride intake. The Hoogovens smelter is a fine example of how industry and nature can co-exist.

**Gochoogin Jamts**

Ulaanbaatar  
4th District  
Home No.45, Door N.89  
Mongolia

Mr. Jamts has written articles on nature preservation, and rational utilisation and reclamation of natural resources. His publications showed that the cultivation of the Eastern Mongolian steppes would lead to soil erosion and loss of biodiversity and the area was subsequently set aside as a reserve. Jamts' efforts have also resulted in the closure of a number of lumber companies, dropping the volume of sawn timber by one million cubic metres and saving 10,000 hectares of woodland. He also initiated a tree-planting movement which aims to plant 70 million saplings.

**Yolanda Kakabadse**

Fundacion Futuro Latinoamericano  
Mariano Echeverria 843 y Francisco Feijoo  
P.O.Box 17-17-558  
Quito  
Ecuador  
Tel: (593 2) 2920 635  
Fax: (593 2) 2920 636  
E-mail: yolanda.kakabadse@fulano.org  
yolandak@uio.satnet.net

Ms. Kakabadse was head of Fundacion Natura (Nature Foundation), which was established 1979. Fundacion Natura

promotes public awareness on environment and conservation and has succeeded in developing legislation to prevent damage to nature's resources. Kakabadse's work prompted the President of Ecuador to declare the 1990s a decade of eco-development. She is IUCN's regional counselor, a member of the editorial advisory board of the *World Resources Report* and a member of UNEP's Senior Women's Advisory Group, Kakabadse worked as the NGO Liaison Officer in UNCED from November 1990 until July 1992.

**Robert Glenn Ketchum**

696 Stone Canyon Road  
Los Angeles  
California, CA 90077  
United States of America  
E-mail: metrov@mediaone.net

Artist and author, Robert Glenn Ketchum, uses his exhibitions, publications and the media to bring to public attention critical environmental issues within the USA. His book *The Hudson River and the Highlands* has been used by the Hudson River Greenway Council to support and encourage community participation in greenway development. *The Tongass: Alaska's Vanishing Rain Forest* helped to mobilise nationwide support for congressional approval of the largest timber reform bill in the history of the United States and *Overlooked in America: The Success and Failure of Federal Land Management* sharply criticises the federal government for its neglected care of public land and resources.

**Malayan Nature Society**

485 Jalan 5/53  
46000 Petaling Jaya  
Malaysia  
Tel: (60-3) 791 2185  
Fax: (60-3) 791 7722

Established in 1940, the Malayan Nature Society is a non-profit-making NGO that promotes nature appreciation and conservation. Its activities cover field trips, courses, outdoor expeditions, education, media campaigns and exhibitions with the aim of developing an appreciation for Malaysia's natural heritage. There are branches in nine Malaysian states. The proposed network of conservation areas incorporated in the Third Malaysia Plan (1976-1980) was a direct result of a paper submitted by the Malayan Nature Society.

**Peter Matthiessen**

Bridge Lane  
Sagaponack, NY 11962  
United States of America

Mr. Matthiessen is a naturalist and author who has used his art to document disappearing life forms and traditional ways of life. Matthiessen's *Wildlife in America* was the first book to document the environmental decline of the USA. His expeditions have taken him to Alaska, Canada, Asia, Oceania, South America, Africa and New Guinea. In *Indian Country*, Matthiessen exposes the injustices still being suffered by the native peoples of America; *The Spirit of Crazy Horse* documents the US government's renewed assault on American Indians that began in the 1970s. In both fiction and non-fiction, he has been nominated for the National Book Award, which was won by *The Snow Leopard* in 1978.

**Norman James Melrose**

Nymanyoka Farm  
P.O. Box 37  
Mhangura  
Zimbabwe

Since 1956, Mr. Melrose has been associated with the Doma Intensive Conservation Area Committee, a voluntary sub-committee of the Natural Resources Board elected to ensure that farming in the area is carried out in a conservation-conscious way. For 23 years he was in charge of operations carried out by the local mine to establish vegetation on the mine dumps which were being eroded by wind and water to the detriment of neighbouring farms. Experimental and practical planting of different plant species resulted in all the slimes dams being vegetated in a self-regenerating manner, local couch grass, Port Jackson Willows, Acacia, Cyanophilla and Takoma being the mainstays. The mine dumps are now difficult to differentiate from the surrounding bush.

**Claude Michel**

1 Max Rohan Street  
Beau-Bassin  
Mauritius  
Tel: (230) 464 1248

Mr. Michel graduated in the UK and taught biology for over five years before working at the Mauritius Institute for some 20 years, finishing as Director. After early retirement he worked at the Mauritius Institute of Education as a curriculum developer and lecturer in science, biology and environment. Over the past 20 years he has been writing a weekly contribution for a local newspaper (*L'Express*) on scientific topics, including plant and animal life, as well as the environment. Written in a light tone, the articles aim at interesting non-scientific readers in the topics covered. These articles have played a major role towards promoting environmental awareness in Mauritius.

**Ahmad Abu Musa**

Ba'ath Pioneer  
P.O. Box 2638  
Damascus, Syria

Dr. Abu Musa is the president of the Ba'ath Pioneer Organisation. The organisation aims to promote environmental consciousness among young people. Activities include seminars, symposiums, children's seminars, and tree planting projects in camps and schools. "Green Carpet" competitions, exhibitions for plants and flowers, and theatre are also used to convey the message of sustainable development.

**Seub Nakhasathien (deceased)**

Seub Nakahasathien Foundation  
50 Paholyothin Road  
Yad Yao District  
Chatuchak  
Bangkok 10900  
Thailand

The late Mr Nakhasathien worked as a forest researcher at the Wildlife Sanctuary in Thailand from 1975 to 1979. In 1983, as Chief of the Wildlife Rescue Project he worked unrelentingly to rescue drowning wildlife while also fighting against illegal poachers. In 1987, he campaigned against the construction of the Nam Choan, a 580 megawatt dam planned for the Thung Yai Naresuan Wildlife Sanctuary. In 1989, as chief of a Wildlife Sanctuary, he succeeded in saving 6,000 square kilometres of land

from exploitation. Nakhasathen took his own life on September 1 1990 following the shooting and death of two of his rangers by poachers and renewed frustrations encountered in his struggle to protect the environment.

#### **Nyamuniwa Nyamunda**

Musanhi School  
Mupfava Village  
P. Bag 520  
Mutoko  
Zimbabwe

Mr. Nyamunda is a farmer who practices conservation. Around his rural village he has begun to reclaim gullies, turning degraded land into highly-productive areas. He grows vegetables and has established orchards and fish ponds on the reclaimed land. In 1983, Nyamunda established his own woodlot to compensate for the number of trees being cut down. His knowledge in conservation and farming has led him to develop agriculture and conservation training programmes for the school children in the surrounding area.

#### **Vereniging Ode, Organisatie Voor**

Duurzame Energie  
Post Box 750  
3500 AT Utrecht  
Nederlands

The *Organisatie voor Duurzame Energie* (Organisation for Renewable Energy) is a Dutch NGO specialising in promoting renewable energy applications. The organisation was founded in 1979 and now has 1000 members and 35 associated local organisations. The organisation informs the public on developments in wind-energy and solar energy, with the objective of mobilising public and local groups to support the use of renewable energy resources. It has specialised in promoting and coordinating farmers, companies and groups of small consumers to use wind turbines and solar systems.

#### **Adama Ouedraogo**

Ministere de l'Environnement et du Tourisme (D.E.P)  
03 B.P. 7044  
Ouagadougou 03  
Burkina Faso

Mr. Ouedraogo is from north west Burkina Faso, an area prone to soil erosion. In 1969, Ouedraogo, created *Les Groupements de Naarn*, an organisation dedicated to conservation and tree planting. To date, over 4,000 harvestable trees have been planted alongside a holding for rabbits, pheasants, chickens and ducks. The organic waste produced by these animals is used as compost in a nursery that produced over 5,000 local and exotic plants in 1985. In 1986 he built a cold storage on a reservoir that provides a suitable breeding environment for fish.

#### **Geoffrey Palmer**

Unit 7  
85 Elizabeth Street  
Mt. Victoria  
Wellington 6001  
New Zealand

Sir Geoffrey Palmer has been Prime Minister and Minister for the Environment of New Zealand. He was instrumental in successfully combating driftnet fishing, a practice that led to the death of endangered species such as whales, dolphins, seabirds and turtles. His efforts resulted in the Convention for the Prohibition of

Fishing with Long Driftnets in the South Pacific. Palmer was the driving force behind the New Zealand Ozone Layer Protection Act, and he also established the New Zealand policies to mitigate global climate change. His leadership made New Zealand one of the first countries in the world to introduce comprehensive resource management legislation.

#### **Roger Payne**

Whale and Dolphin Conservation Society  
191 Weston Road  
Lincoln, MA 01773  
United States of America  
Tel: (617) 259 0423  
Fax: (617) 259 0288

President of the Whale and Dolphin Conservation Society in Lincoln, and a senior scientist with the WWF. In 1968 Dr. Payne discovered that humpback whales sing songs, and his studies resulted in the 1970 album, "Songs of the Humpback Whale", thus stimulating the Save the Whale movement. Dr. Payne's current research includes a 21-year behavioural study of the whales of Argentina, demonstrating that it is possible to study free swimming whales in the wild without injuring them. Past research from his Society includes studies of the potential disturbance to whales of sounds generated by offshore industrial development.

#### **Nicholas Polunin** (deceased)

Foundation for Environmental Conservation  
7 Chemin Taverney 1218  
Grand-Saconnex  
Geneva  
Switzerland

Dr. Polunin is a botanist and plant ecologist who has participated in, or led, numerous scientific expeditions to Greenland, Spitsbergen, northern most Norway, the Canadian Eastern and Western Arctic, northern most Alaska, Siberia, and West Africa and high mountains elsewhere, as well as making flights over the North Pole to investigate the biotic content of the atmosphere at the highest latitudes. He has made significant discoveries in the plant ecology of the Arctic, subArctic, and high-altitude regions. More recently he has organised major conferences on the environmental future and the endangered biosphere.

#### **Jonathon Porritt**

Forum for the Future  
9 Imperial Square  
Cheltenham GL50 1QB  
United Kingdom  
Tel: (44-01242) 262 737  
Fax: (44-01242) 262 757  
E-mail: a.paintin@forumforthefuture.org.uk

Director of Friends of the Earth between 1984 and 1990, he turned it into one of the most authoritative environmental campaigning and public awareness groups in Britain. His books, *Seeing Green* and *The Coming of the Greens*, are notable contributions to literature on the environment. His latest work, *Save the Earth*, has sold more than 500,000 copies in 25 different countries. He has also done extensive work promoting the environment on television and on radio.

#### **Maritza Pulido-Santana**

Environmental Education Programs  
Instituto Nacional de Parques  
Apartado 76471 1070 - A  
Caracas  
Venezuela

The founder and current coordinator of an environmental education programme for children in Venezuela called "Ecological Games". She initiated this programme in 1979 with 50 children in Caracas, and has involved more than 16,000 children from 15 cities around the country. It organises games and informal activities in the countryside for children in the urban areas. The objectives of the programme are to promote children's sensitivity towards nature, allowing them to discover their role in changing the public's behaviour towards the environment.

**M. K. Ranjitsinh**

C11/43 Bapa Nagar  
New Delhi 110 003  
India

Dr. Ranjitsinh has served as Regional Adviser in Nature Conservation for UNEP's regional office for the Asia and Pacific regions, and was instrumental in preparing national conservation strategies for Thailand and Bangladesh. He assisted in the elaboration of a cooperative environment programme for the South Asian Countries, and the International Convention on Migratory Species of Wildlife. Dr. Ranjitsinh was director of the Wildlife Department from 1973-75 and was instrumental in planning the funding of new national parks and sanctuaries in India.

**Yung-Hee Rho**

Graduate School of Environmental  
Studies  
Seoul National University  
56-1, Sinlim-Dong  
Kwanak-ku  
Seoul, 151-742  
Korea

Dr. Rho, as president of the Korean Planners' Association in 1974, laid the academic foundations for the creation of sound human settlements across the country, and was instrumental in convincing the government to create green-belts around the metropolitan areas. He played a critical role in establishing the Graduate School of Environmental Studies at the Seoul National University. Dr. Rho also participated in the formation of the Korea Environmental Preservation Association whose works centre on the protection of nature and on the prevention of environmental pollution caused by industrialisation.

**Eduardo Del Rio (Rius)**

Apartado 139-5  
Cuernavaca, Mor.  
CP. 62051  
Mexico  
Tel: (52-731) 125 666  
Fax: (52-731) 123 842

Rius and Ms. Ruge co-authored a children's booklet, *Cuadernos de vida y ecología, todos contra la contaminación*. The booklet has been circulated throughout the Mexican public school system to over 250,000 Mexican children by the government. With Ruis's cartoon figures and Ruge's text, the booklet explains the dynamics of pollution in Mexico and comments on the rationalisation and habits of the polluters. The booklet is extremely witty and explains pollution in terms that are accessible and compelling to readers of all ages. Over the past 25 years, Rius has written books and comics on ecological themes.

**Tiahoga Ruge**

Director  
Centro de Capacitacion y Desarrollo Sustentable  
Secretaria de Medio Ambiente y Recursos Naturales  
Av. Progreso No. 3  
Colonia del Carmen Coyoacan  
Mexico, D.F.  
14000 Mexico  
Tel: (525) 565 8338  
Fax: (525) 565 8338  
E-mail: tiahoga@semarnet.gob.mx

Ms. Ruge and Rius co-authored a children's booklet, *Cuadernos de vida y ecología, todos contra la contaminación*. The booklet has been circulated by the government throughout the Mexican public school system to over 250,000 children. With Ruis's cartoon figures and Ruge's text, the booklet explains the dynamics of pollution in Mexico and comments on the rationalisation and habits of the polluters. The booklet is extremely witty and explains pollution in terms that are accessible and compelling to readers of all ages.

**Starkist Seafood Company**

180 East Ocean Boulevard  
90802-4797 Long Beach  
California  
United States of America

In 1990, Starkist Seafood, the world's largest tuna fish canner, announced that it would no longer sell tuna with dolphin. As a result of this decision, 75% of the USA canned tuna market turned "dolphin safe" almost immediately. Asian and European canners have recently followed this example. Prior to this action many Pacific tuna fishing fleets intentionally dropped their nets on dolphins because in some areas tuna swim under schools of dolphin. This fishing technique, known as "setting on dolphin", was responsible for some 100,000 dolphin deaths every year. Starkist is also actively encouraging foreign nations to use only "dolphin safe" fishing methods, and is supporting the United Nations' call for a global ban on driftnet fishing.

**Crispin Charles Cervantes Tickell**

Ablington Old Barn  
Ablington, Cirencester  
Gloucestershire GL7 5NU  
United Kingdom  
Tel: (44-01285) 740 566  
Fax: (44-01285) 740 671  
E-mail: ct@crispintickell.net

Sir Crispin Tickell has been concerned with the environment as long as he can remember. He took advantage of a sabbatical year at Harvard University in 1975/76 to write *Climate Change and World Affairs* (since reprinted twice). As an adviser to participants in the annual economic summits, he helped put environment on the agenda. When Permanent Secretary of the Overseas Development Administration, he established the environmental dimension of British aid policy; and as British Ambassador to the United Nations he played a key role in environmental affairs, including initiation of the UN Conference on Environment and Development in 1992. Among his current responsibilities he is Chairman of the Climate Institute, President of the Royal Geographical Society and the Warden of Green College, Oxford.

**Dr. Jun Ui**

Okinawa University  
Kokuba 555  
Naha  
Japan 902  
Tel: (81-98) 832 2962  
Fax: (81-98) 832 2962  
E-mail: ui@okinawa-u.ac.jp

Dr. Ui, a Japanese chemist, has spent his scientific career documenting pollution and its impact on human beings. He was one of the first scientists to document the mercury poisoning in Minamata, Japan, and subsequently supported a movement for the victims. In Okinawa he is campaigning against an airport runway that could destroy a unique coral reef. He has also worked on a survey of river water quality, and studied and promoted the role of citizen's initiatives related to the environment. Dr. Ui has also initiated and organised free environmental lectures for all citizens at the University of Tokyo. He is presently the president of the Asian Environmental Society.

**Xiao Zhang Zhuang Village**

Anhui Province  
115, Xizhimennei Nanxiaojie  
Beijing 100035  
Yingshang  
China

For 20 years the village people of Zhang Zhuang have been practising sustainable agriculture. By developing irrigation and drainage systems, and planting trees to reduce soil erosion, they have succeeded in raising the soil fertility. In addition they have initiated an aquaculture industry, are utilizing marsh gas instead of domestic fuel and have reduced population pressure on the environment by successful family planning. Through sustainable development, this village will ensure a future for its rural economy and future generations.

## 1992 GLOBAL 500 LAUREATES

### **Ahmed Abdel-Wahab Abdel-Gawaad**

P.O. Box 613  
El-Maadi  
Cairo  
Egypt  
Tel: (202) 3503503/013/470306  
Telex: 92860 ZUUN

Professor of Environmental Science at the Faculty of Agriculture, Moshtohor, Egypt. During the last 20 years he has written the Environmental Encyclopedia Series in Arabic, and most of his research (120 papers) has been directed to the problem of environmental pollution by pesticide residues in Egypt. Through national symposia, international congresses and his scientific television programme, and public organizations and governmental agencies, Professor Abdel-Gawaad has helped advance knowledge of pesticides in agriculture.

### **Roland Albignac**

c/o PNUD, UNESCO  
BP 1346  
Antananarivo  
Madagascar  
Tel: (261-2) 219-07/340-64  
Fax: (261-2) 33315

Professor Roland Albignac, Director of UNESCO's Man and the Biosphere Project, has been involved in the study of conservation of Madagascar's wildlife for most of his life. He has contributed decisively to achieving national park status for the Mananara reserve, a key habitat for the aye-aye (the most threatened species of Lemur) and for the neighbouring marine park. Currently, he is helping to develop and apply low cost, sustainable methods of intensifying farming and fishing in the reserve.

### **Miguel Alvarez del Toro**

Apdo. Postal No 60  
Tuxtla Gutierrez  
Chiapas  
Mexico  
Tel: (52) 2 99 43/ 2 37 54

Professor Alvarez del Toro, Director of the Tuxtla Gutierrez Zoo, is a researcher dealing with the study of Mexico's wildlife and nature. He is also an Honorary member of the American Ornithological Society and is regarded as the grandfather of ecologists and environment preservers in Mexico. Professor Alvarez's research and work to preserve the Chiapas regions' heritage has been published and recognised worldwide.

### **Pablo Amaringo**

Escuela de Pintura Amazonica Usko  
Ayar Jr. L. M. Sanchez Cerro 465-467  
Pucallpa  
Peru  
Tel: (51) 573 088

Pablo Amaringo, a "vegetalista" (traditional healer) turned painter, has been teaching painting to youth in Pucallpa since 1980. His Shamanistic background has helped him understand the Amazonian

ecology depicted in the paintings. Paintings done by young people (aged 11 to 20) portray a rich array of plant and animal life, and have helped the inhabitants understand their environment, as well as serving a useful guide to outsiders.

### **Association Nationale des Pionniers de Reboisement**

B.P. 10508  
Dakar-Liberté  
Senegal  
Tel: (221) 25-40-17

The objective of the "National Association of Pioneers for Reforestation" (Association Nationale des Pionniers de Reboisement) is to unify young people in the fight against desertification. Between 1986 and 1989 they have planted nearly 28,000 trees and 10 nurseries have been established in Senegal. They have also held five training courses, seven "days of reflection" and one public conference on reforestation. In 1990, with the aim of mobilising more schools to begin reforestation, ANPR initiated the project "Promotion of Forests" (PROFOS).

### **Baha'i Vocational Institute For Women**

180 Bhamori, New Dewas Road  
Indore  
MP 452008  
India  
Tel: (91 0731) 442 353  
Fax: (91 0731) 431 304

In 1987, the Institute joined the Indian Government's Technology Mission on drinking water, in Jhabua, one of the 51 districts affected by guinea-worms, with 302 villages having 752 infected persons and 211,813 at risk. The Institute, with the government, coordinated environmental programmes to educate and train tribal villagers, mainly women, on prevention and eradication of guinea worms, caused by contaminated water. Mobilisation and motivation of health functionaries was also designed around the government's work related to drinking water management. This helped the district to eradicate the guinea-worms. Since July 1992, the Institute has voluntarily started working for another neighbouring district, Dhar, where 68 active cases were found by the Government in six villages.

### **Brigitte Bardot**

Fondation Brigitte Bardot  
4 Rue Franklin  
75116 Paris  
France  
Tel: (33-1) 45 25 24 21  
Fax: (33-1) 40 50 95 46

Brigitte Bardot, founder of the "Fondation Brigitte Bardot," has been very active in promoting the protection of animals and improving human behaviour towards them. She has most recently been involved in advocating the protection of endangered species and gave her French Riviera estate to the Fondation which has now officially been recognised as a public utility.

**Charley Barretto**

World Ecologists  
Gold Building, 15 Annapolis St  
Greenhills  
Metro Manila  
Philippines  
Tel: (63-2) 722 0416/721 3997  
Fax: (63-2) 721 3356

Charley Barretto, a recipient of the "Likas Yaman" award from the Philippines Department of Natural Resources and Environment in 1988 and the "Woman of Ecology" 1989 award from the Metro Manila Council of Women, is the Founder and President of the World Ecologists Foundation. Under Barretto's guidance, the Foundation had by its first anniversary reached its target of planting over one million trees. It is now undertaking the reforestation of 100 hectares in Nueva Ecija employing the tribal Aetas and with the official cooperation of the Philippines Army. The Foundation has been instrumental in creating environmental awareness through its television programme "World Ecologists Presents" as well as through publications. Barretto is also the founder and lecturer of "Science Mind and Man", one of the largest and most active movements in the Philippines.

**George Benneh**

Vice-Chancellor's Office  
University of Ghana  
P.O. Box 25  
Legon, Accra  
Ghana  
Tel: (233-31) 775 796  
E-mail: epainfo@ghana.com

Professor George Benneh, Head of the Department of Geography and Resource Development, is also the Director of the Population Impact Project (PIP) of the University of Ghana whose main objective is to make available to policy makers and planners information on population, resources, environment and development. Professor Benneh has published widely in these areas and his latest publication *Land Degradation in Ghana* was commissioned by the Commonwealth Secretariat. He is also the Chairman of the Environmental Protection Council Sub-Committee on Natural Eco-Systems.

**Michael Bloomfield**

19 Oakvale Avenue  
Ottawa  
Ontario K1Y 3S3  
Canada  
Tel: (613) 230-7353/(250) 380 3001  
Fax: (613) 230-7740/(250) 380 0887  
E-mail: harmony@islandnet.com

In developing educational programmes and informing the public on better ways to manage their resources to protect the environment, Michael Bloomfield, Founder and Executive Director of The Harmony Foundation of Canada, has helped many Canadians take definite steps towards sustainable development, including conservation, protecting forests and recycling wastes. The Harmony Foundation, founded in 1985, has published two booklets and a regular newsletter with advice on practical actions to protect the environment. Michael Bloomfield is the Editor of *Home and Family Guide: Practical Actions for the Environment*.

**Robert Peter Burton**

The Wilderness Society  
130 Davey Street  
Hobart 7000  
Australia  
Tel: (61-2) 6247 4072  
E-mail: bburton@hydra.org.au

Robert Burton was a leading figure in the fight to protect the Franklin River in the heart of Tasmania's south-west wilderness. In 1983 he was one of 15,000 arrested before the Franklin Dam project was stopped. He is the author of the definitive works on the impact of hydro-electric dams and the mining industry on the island state's wilderness and natural heritage. These works have helped bolster the work of several environmental groups leading to 20% of Tasmania being declared a World Heritage Wilderness Area. Burton's early photographic work and public advocacy of the protection of the region led to the establishment of the Douglas-Apsley National Park in 1989. Burton is a former vice president of the Australian Conservation Foundation whose frequent advocacy on both television and radio has helped foster constructive debate on environmental issues.

**Jorge Cappato**

Fundacion Proteger  
Coordinacion Argentina, Coalicion Rios Vivos  
Balcarce 1450  
3000 Santa Fe  
Argentina  
Tel: (54-324) 455 8520  
Fax: (54-324) 455 8520  
E-mail: rios.proteger@arnet.com.ar/  
Jcproteg@satlink.com

In 1988, Jorge Cappato, lecturer and environmentalist, was honoured with the highest national environmental award, known as "Conserving the Future" by the Ministry of Environment. He is the author of *Man and his Environment* and has written over 1000 articles as Editor of the daily paper *El Litoral* and over 400 articles for schools. He has initiated various seminars on the environment, including the first meeting of Argentina's environmental NGOs. He is also responsible for the implementation of UNEPs campaign "A Tree for Every Child - in Argentina. He is the author of the chapter about Ecology in the *New Encyclopedia of the Province of Santa Fe*, published in 1991, and recipient of the "St Clare of Assisi" award, a very important recognition at national level, for his journalistic works on health and the environment.

**Maria V. Cherkasova**

Director  
Centre of Independent Ecological Programmes  
P. O. Box 67  
115407 Moscow  
Russian Federation  
Tel: (7-095) 119 8686  
Fax: (7-095) 118 8686  
E-mail: cnep@online.ru

Maria Cherkasova, a Russian biologist and journalist, successfully coordinated a grassroots campaign to halt construction of a hydro-electric dam on the River Kantun in the former Soviet Union's mountainous Altai region. The dam threatened to pollute drinking water, destroy wildlife, flood and erode land. The Socio Ecological Union, an umbrella organization for 200 Soviet environmental groups, served as the campaign's base of

operations. Due to these efforts, independent scientists associated with the environmental NGOs participated in official expert commissions organized in 1987, 1988 and 1989. The movement raised environmental consciousness and led to some of the nation's first environmental conferences.

#### **CODDEFFAGOLF**

Casa No. 1528  
Ave. Los Inditos, Bo. Los Profesores  
Contayaguela  
Honduras  
Tel: (504) 37 2655

In 1987, the Committee for the Defense and Development of the Flora and Fauna of the Gulf of Fonseca (CODDEFFAGOLF) worked to prevent the conversion of El Jicarito, a 1,000-hectare lagoon along the southern coast of Honduras, into a shrimp farm that would have threatened wildlife birds, marine life and dislocated 2,000 families. CODDEFFAGOLF, through legal means and the media, successfully helped organize the 20 different communities surrounding the lagoon into a united group to halt the project. Due to their efforts, the group is once again able to farm. The Ministry of Natural Resources has designated El Jicarto Lagoon as a "reserve area for wildlife and artisanal fishery".

#### **Rose Cotta**

Soroptimist International  
c. Dr. Carulla 31-33, Atico  
E-08017 Barcelona  
Spain  
Fax: (34-3) 212 8576

Rose Cotta, founder member of the Soroptimist Club of Barcelona, acquired a four-hectare area of agricultural land in Catalunya Province in Spain, which had been farmed for 12 years using chemical pesticides and fertilizers. The aim was to convert the use of conventional non-organic techniques to organic methods. As a result, natural balance returned, with soil life improving and wild plants, insects, birds and mammals coming back to the area, and it has become a success in environmentally-sound and sustainable agricultural development.

#### **Tuenjai Deetes**

P.O. Box 11  
Amphur Mae Chan  
Chiangrai 57110  
Thailand  
Tel: (66-53) 715 696  
Fax: (66-53) 715 696

Tuenjai Deetes has been working with Thai hill people since 1970. In 1986, she, with a group of field workers, academics and government officials, started the Hill Area Development Foundation (HADF) to promote sustainable development in a number of hilltribe villages in North Thailand. Due to population pressure, inadequate government policies and lack of land tenure, the environment (soil, water, forests) has been rapidly deteriorating. HADF's education and extension activities have led to the adoption of sustainable agricultural practices such as contour farming and terracing for wet rice cultivation. Recently four villages have come together in a network to define appropriate land management systems for the fragile watershed area. The HADF programme provides a model for participatory community development, sustainable agriculture and watershed management, and is proof of the viability of the concept that people and forests can live together.

#### **Francesco di Castri**

7 Place de Fontenoy  
75700 Paris  
France  
Tel: (33-1) 4568 4157  
Fax: (33-1) 4306 1122

As early as 1965, Francesco di Castri was involved in the study of ecological sciences. He is the Coordinator for the Environment in UNESCO, Paris and has written 12 important scientific volumes and some 300 papers on theoretical and applied ecology. Di Castri began his career in 1958 when he obtained his PhD in animal studies, and specialised in ecology in Pavdova University. After lecturing at the Universities of Chile and Austria, he joined UNESCO in 1971 as secretary of the MAP Intergovernmental Council.

#### **Earthwatch Radio**

University of Wisconsin - Madison  
550 North Park Street  
15 Science Hall  
Madison, WI 53706  
United States of America  
Tel: (608) 263 5599  
Fax: (608) 262 2273

"Earthwatch Radio" is a series of two-minute radio features on the environment, produced and distributed free by the Institute of Environmental Studies and the Sea Grant Institute at the University of Wisconsin. The programme has prompted several spin-off projects, including an environmental newspaper feature series, environmental education supplements on special topics, and three paperback collections of "Earthwatch Radio" scripts, aimed at schools and libraries. The programme is aired on approximately 140 radio stations in the United States, Canada, and internationally.

#### **Salwa Osman Ebeid**

Afforestation & Reforestation Project  
Northern State - Sudan  
Ed Damer  
Sudan

Salwa Ebeid was the first woman to be employed by the United Nations Sudano-Sahelian office that aided the communities along the Nile River in Sudan through afforestation and reforestation projects. This project at the outset was hindered by the traditional obstacle of not allowing male project staff to work with women. Through Ebeid's work, this isolation of women was overcome and women's communities were established in all villages. Women are now actively involved in reforestation projects resulting in a reduction of sand-drifting and an increase in environmental awareness.

#### **Dr. Ranjen Lalith Fernando**

No. 10 Daniel Avenue  
Colombo 5  
Sri Lanka  
Tel: (94-1) 501 842  
Fax: (94-1) 580 721 ATT WNPS  
E-mail: ranmall.w@itmin.com

Dr. Lalith, an NGO lobbyist, is currently President of the Wildlife and Nature Protection Society of Sri Lanka. He successfully led a national and international campaign protesting against a World Bank-funded Forestry Master Plan for Sri Lanka. Co-editing a 75-page critical review of the plan, Fernando secured a UNEP/IUCN

sponsored ecological reassessment of the Plan and effected major changes to it. As Co-Chairman of a National Committee of NGOs, he highlighted the environmental hazards of a proposed coal-powered thermal power plant, deterring the ADB from funding it. Fernando is also organising, lecturing and participating in educational and public awareness programmes on national television and in secondary schools, where protection of endangered wildlife and conservation of natural resources is being emphasised.

**Perin Savakshaw Fitter**

Kenya Neem Foundation  
P.O. Box 1268  
Kisumu  
Kenya  
Tel: (254-057) 23290/44360  
Fax: (254-057) 22285  
E-mail: salim@johncumming.co.ke

Perin Fitter, a British teacher and environmentalist working for the Environment Conservation Volunteers Project, has helped foster environmental awareness by introducing Kenyan youth to different environmental management methods used by countries abroad. Working in close consultation with the Presidential Commission and Ministries of Agriculture, Environment and Natural Resources, she has carried out projects, conducted seminars and organized exchange programmes in various districts. By extending the mobile film unit programme to rural schools, she has succeeded in spreading the message of soil conservation to an average of 600 students per day.

**Herbert Girardet**

93 Cambridge Gardens  
London W10 6JE  
United Kingdom  
Tel: (44-208) 969 6375  
Fax: (44-208) 969 6375

Herbert Girardet is a campaigner, writer and film maker concerned with human impact on the Earth. His particular concern has been the survival of bio-cultural diversity in the face of rainforest destruction. Girardet has researched and produced 18 environmental TV documentaries filmed in 16 countries on five continents. In these films, as well as in his books, he has balanced thorough analysis of environmental problems and their causes with messages of hope for the future. In 1992 he published *Earthrise: How we can heal our injured planet*. In 1993, he will publish *The Gaia Atlas Of Cities: New directions for sustainable urban living*.

**Golden Hope Plantations Berhad**

Tingkat 9-16  
Menara PNB  
201-A, Jalan Tun Razak  
50400 Kuala Lumpur  
Malaysia  
Tel: (60-3) 261 9022  
Fax: (60-3) 261 8221  
E-mail: chteoh@tm.net.my

In 1989, the Golden Hope Plantations Berhad group adopted a zero-burn technique on four of the Golden Hope estates in Malaysia, over an area of approximately 600 hectares. This technique required old stands to be felled, shredded, pulverised and left to decompose in situ. No burning was carried out - in contrast to the conventional clearing system - and it has contributed to a clean air environment. The zero-burn system has replenished soil organic matter and improved the soil's physical

properties to enhance fertility. The zero-burn technique has since become a standard practice for all the Group's palm oil estates.

**Legeia Gonzalez L.**

FIPMA  
Calle 20e No 2-46 A.A 2741  
Cali  
Colombia  
Tel: (5723) 568 152/803 761  
Fax: (5723) 830 797

Legeia Gonzalez, Project Manager of the Foundation for the Research and Protection of the Environment, has organized workshops, seminars and other activities for grassroots groups in Colombia's Middle Pacific Region to teach groups about environmentally-safe technologies and systems. Gonzalez and her group have helped women pursue income-generating activities using new environment-friendly labour-saving technologies. The Colombian communities are now using the rain forest as "extract reserves" to obtain what they need from the forest without interfering with the basic ecological processes.

**Edwige Guillon**

"Le Boulay"  
Conflans/Anille  
72120 Saint-Calais  
France  
Tel: (33 43) 35 07 41  
Fax: (33 43) 35 42 70

In 1989, Edwige Guillon, (founder member and National Secretary of *Le Jour de la Terre* - Earth-Day France), resident of Saint-Calais, approached school directors to persuade them to teach children about environmental issues. As a result, teachers, most of them women, developed projects for the children on paper recycling: "don't throw away any more trees". Conferences, exhibitions and treeplanting programmes were held and state schools participated. Several collections of waste paper have been organised while waiting for permanent containers. The behaviour towards their environment of the 32,000 residents of Saint-Calais and the surrounding area is improving.

**Jorge Ignacio Hernandez Camacho**

Calle 39 18A-14  
Bogota  
Colombia  
Tel: (57) 28 33 019  
Fox: (57) 28 33 458

Dr Camacho's promotion of environmental awareness has contributed greatly to the establishment of the National Parks System. His 30-year public concern for Colombia's wildlife and natural resources is reflected in his scientific publications which have provided important models for conservation activities in forests, ecosystems, wildlife and water management activities.

**Kazuo Hishida**

1-6-6 Komoba  
Meguroku  
Tokyo  
Japan  
Tel: (813) 3466 5908  
Fax: (813) 3466 5948

Kazuo Hishida, President of the Hishida Office of Planning and Environment, has participated in the formulation of national environmental protection policies in Japan. His efforts in the 1960s and 1970s led to the drafting of emission standard papers

and technical guidelines for emission control for factories. He was recently appointed First Foreign Counsellor of the Research Centre for Eco-Environmental, Chinese Academy of Sciences.

### **Zhang Jia-Shun**

Anhui Yingshang County  
People's Republic of China.

Zhang Jia-Shun of Yingshang County, China, established in the mid 1970s a model village based on comprehensive principles for the integrated development of agriculture, including forestry, horticulture and fisheries. The project was mobilised entirely by the villagers, without any state funding. It was followed in 1978 by a reconstruction programme, as the village was repeatedly subject to floods and drought and was dominated by a low productivity monoculture. The programme included soil improvement, harnessing of water for irrigation, village planning and biological reconstruction through tree planting and animal husbandry.

### **Hayrettin Karaca**

Karaca Arboretum  
81887 Samanlikoy  
Yalova - Istanbul  
Turkey  
Tel: (901) 377848  
Fax: (901) 377282

Hayrettin Karaca gave up his business life of 31 years to begin work on conserving flora, and established the only private arboretum in Turkey. The Karaca Arboretum has approximately 6,000 varieties of trees and shrubs from Turkey and the rest of the world. The Arboretum is open to the public and all scientific foundations, and trains students in agriculture and forestry. Karaca also helped launch the Karaca Arboretum Magazine, a scientific periodical. Over the last five years, he has given over 30 lectures to students inside and outside the country.

### **Ashok Khosla**

Development Alternatives  
B-32, Tara Crescent  
Qutab Institutional Area  
New Delhi – 110016  
India  
Tel: (91-11) 696 1497/685 2258  
Fax: (91-11) 696 6031  
E-mail tara@sdalt.ernet.in  
or  
22 Palam Marg  
New Delhi - 110057  
India  
Tel: (91-11) 614 2213  
Fax: (91-11) 614 0339  
E-mail: akhosla@hotmail.com  
akhosla@india.com

Development Alternatives, founded in 1983, was one of the first major organisations set up specifically to address the problems of sustainable development. Its objectives are to address the problems of poverty, resource degradation and population growth at the village level on a large, national scale in a self-financing manner. To achieve this, it has adopted the strategy of focussing sophisticated scientific, technological and management methods to the solution of simple everyday problems of survival and subsistence. Led by Ashok Khosla, the organisation has built up a major research centre which develops innovative technologies for

basic human needs. Examples of such technologies include: low cost but high grade construction using local materials such as mud; fuel-efficient woodstoves for cooking; handmade recycled paper; and high-productivity handloom weaving machines.

### **Oliver Henry Knowles**

Mineracao Rio do Norte S.A.  
Caixa Postal 23, Porto Trombetas  
Cep. 68.275.000  
Para  
Brazil  
Tel: (55-091) 549 1342  
Fax: (55-091) 549 1482

A dedicated environmentalist, Oliver Knowles has been responsible since 1977 for ecological conservation at Mineracao Rio del Norte (MRN), working in the bauxite mining area in Amazonia, Brazil. He has done pioneering work in land and water regeneration, the classification and preservation of species and most particularly in the spread of environmental education within the Company workforce and in local communities. His work on the rehabilitation of land after bauxite mining is a model to all companies working in tropical rainforest areas. He conceived and implemented his company's programme, "Five Minutes for the Environment". Knowles was awarded the Marshall Candido Rondon medal in 1972 for his contribution to the responsible development of Amazonia, and the MBE in 1990 for his work on forest preservation in Brazil.

### **Professor U. B. Lindstrom**

Finnish Committee for UNICEF  
Perttulantie 6  
SF 002 10 Helsinki  
Finland  
Tel: (358-0) 692 7500  
Fax: (358-0) 692 3932

Professor Lindstrom, originally an agricultural scientist, now a full time development worker, has made numerous speeches and written books and hundreds of articles on global solidarity and environmental responsibility in international economic relations. His practical contributions to sustainable development include successful forestry projects in Africa, with voluntary funding from Finland.

### **Thomas E. Lovejoy**

President  
The H. John Heinz Centre for Science  
Economics and the Environment  
1001 Pennsylvania Avenue, N.W.  
Suite 735 South  
Washington, DC 2004  
United States of America  
Tel: (202) 737 6377  
Fax: (202) 737 6410  
E-mail: lovejoy@heinzctr.org

During his career at the World Wildlife Fund from 1973-1987, Dr. Lovejoy founded the television series "Nature" and was awarded an Emmy for it. In 1987, he was appointed Assistant Secretary of External Affairs of the Smithsonian Institution and serves on numerous scientific and conservation boards. Dr. Lovejoy's "Minimum Critical Size of Ecosystems" project in Brazil alerted policy makers to how forest fragmentation can accelerate the rate of extinction of species. His research resulted in the environmental impact of development projects becoming criteria for development decisions by the multilateral agencies funded by the US and other creditor nations. He also conceived the concept of debt-for-nature swaps in 1984.

**Ambassador Dr. Mateo J. Magarinos De Mello**

3396 Echevarriarza Street  
11300 Montevideo  
Uruguay

Ambassador Magarinos de Mello is a pioneer in the field of environmental law. He is the first jurist to write about the theory, and introduced this new legal system in the Faculty of Law and Social Science of Uruguay. He has been a great influence on Uruguay's environmental policy, and was in part responsible for the Montevideo meeting of government experts on environmental law and actively participated in the elaboration of the Montevideo programme. He is the recipient of the Elisabeth Haub Award from the Free University of Brussels and the International Council of Environmental Law of Bonn. Ambassador Magarinos is a veteran of the Stockholm Conference which gave birth to UNEP and was President of UNEP's Governing Council in 1981. He helped establish the National Institute for the Preservation of the Environment, and created the Department of Environment in the Ministry of Foreign Affairs. He was the founder and President of the Uruguayan Association of Environmental Law and of the Inter-American Committee of Environmental Law and Administration.

**Susan Mahon**

Barbados Environmental Association  
P.O. Box 132  
Bridgetown  
Barbados

Susan Mahon of the Barbados Environmental Association (BEA) initiated a project "National Gully Week" to highlight the plight of polluted gullies through educational promotional campaigns. The message was that illegal dumping was serious in the community and it was the citizens' responsibility to practise proper waste disposal. The result was the removal of 805 tons of garbage during a three week clean-up period. Now, over a year later, the gully is garbage-free and the community is focussing on educating the public on proper waste management practices.

**Torsten Malmberg**

Human Ecology Division  
University of Lund  
P.O. Box 2015  
S-220 02 Lund  
Sweden  
Tel: (46-46) 109685/118207  
Fax: (46-46) 104207

Professor Torsten Malmberg is Head of the Human Ecology Division of the University of Lund, Sweden. In 1953, he set up the Falsterbo Bird Observatory, which made the monitoring and protection of migrating bird populations of Northern Europe possible. Twenty years later he defended his dissertation in ecological zoology, which addressed the alarming decrease of the Rook (*Corvus frugilegus*) as a result of contamination by fungicidal seed dressings. This was soon prohibited, with recovery of the Rook stock as a consequence. During the last 50 years. Professor Malmberg has published more than 300 scientific and popular papers on ecology and behaviour, mostly orientated towards conservation. He is founder and editor of the *Acta Oecologiae Hominis*, an international monograph series on the science of human ecology. He has written the book *Rooks and*

*Pesticides* and other papers addressing and expanding the subject of his dissertation. For decades he has been a leading functionary within Swedish national and regional societies for ornithology, human ecology and conservation.

**Gladys Khangwayini Mashinini**

Ecolink  
P.O. Box 727  
White River 1240  
South Africa  
Tel: (27-013) 751 2120  
Fax: (27-013) 751 3287  
E-mail: ecolink@mweb.co.za

Gladys Mashinini is an EarthCare team leader with Ecolink, an NGO involved in a garden/nutrition project to train rural people in the benefits of home gardens and the ways in which waste can be recycled and utilized there. Teams visit the communities daily and using brochures, simple illustrations and community participation educate the people, enabling the community to learn how to improve their nutrition, reduce household waste by recycling and save money.

**Mathare Youth Sports Association (MYSA)**

P.O. Box 69038  
Nairobi  
Kenya  
Tel: (254-2) 76 36 14  
Fax: (254-2) 58 30 55  
E-mail: munro@form-net.com  
Mysakenya@nbi.ispkenya.com

Some of the poorest people in the world live in the Mathare Valley slums in Nairobi, and over half of them are children. MYSA was created as a small self-help programme by local youth to organize their own slum clean-up projects and sports leagues. Today, with 20 leagues, 225 teams and more than 4,000 players, MYSA has become one of the largest youth sports organizations in Africa. Every weekend nearly 1,500 children tackle two major causes of the high rates of disease and deaths, by clearing garbage and drainage ditches and participating in sports activities.

**J. Michael McCloskey**

2829 S.W. Sunset Blvd.,  
Portland, OR 97201  
United States of America  
Tel: (503) 892 2664  
Fax: (503) 892 2484  
E-mail: jmmccloskey@aol.com

Michael McCloskey, for 17 years the Executive Director and now Chairman of the Sierra Club, is one of the most respected and successful environmental leaders in the United States. Under his leadership, the Sierra Club grew to 350,000 members and now has over 600,000. It works with environmental groups worldwide. Between 1987-1989, he was the originator of the first World Wilderness Inventory, a key draftsman of the UN Charter for Nature and the legislative advocate for the establishment of the Redwood National Park in Northern California in the 1960s. McCloskey refocussed the EarthCare Network, managed by the Sierra Club, to make it a truly global tool. He is or has been a member of 40 boards, and has published over 30 articles related to the environment. He is now also Chairman of the Natural Resources Council of America.

**Colleen McRory**

Box 93, New Denver  
British Columbia VOG ISO  
Canada  
Tel: (250) 358 2333  
Fax: (250) 358 7950  
E-mail: colleenm@vws.org

Colleen McRory, as Chairperson of the Valhalla Wilderness Society, led an eight-year campaign from 1976 for the establishment of the 49,000 hectare Valhalla Provincial Park in 1983. Between 1984-1987 she assisted in the formation of the National Save South Moresby Park Reserve on Queen Charlotte Island. She received the Equinox Citation Award for her achievements in saving Canada's environment in 1989, which encouraged her to form Canada's Future Forest Alliance, an umbrella coalition of grassroots organizations representing one million Canadians.

**Mary McGillicuddy-Sheehy**

103 Balloonagh Estate  
Tralee, Kerry  
Ireland  
Tel: (353-066) 280 36  
Fax: (353-066) 220 95

After thorough study of the problem of reusable and recyclable resources, Mary McGillicuddy-Sheehy helped establish Kerry Recycling Cooperative in July 1989. The Co-op conducted environmental literacy programmes for householders, businesses, and schoolchildren. There have been environmental and economic benefits for the participants and a reduction in tonnage dumped in local landfills. Jobs were created for a period of time for those involved, but due to inadequate structural support, they have ceased. The group's educational outreach has heightened environmental awareness.

**Shirley McGreal**

International Primate Protection  
League  
P.O. Box 766  
Summerville SC 29484  
United States of America  
Tel: (1 803) 871 2280  
Fax: (1 803) 871 7988

Dr. McGreal is the founder and Chairwoman of the International Primate Protection League (IPPL), which she established in 1973. IPPL, which has Field Representatives in 33 countries and 13,000 members worldwide, has been at the forefront of the battle against illegal trafficking in gorillas, orangutans, chimpanzees and other endangered primate species, and several notorious smugglers have been jailed or indicted because of IPPL's front-line investigations. IPPL also provides grants to primate rescue centres around the world. Recipients have included facilities in Thailand, Zambia, Brazil, Uganda, and the Congo. For 19 years, Dr. McGreal has been the publisher and editor of the International Primate Protection League newsletter.

**Veer Bhadra Mishra**

Tulsi Mandir  
Tulsi Ghat, Varanasi  
Uttar Pradesh  
India  
Tel: (91-054) 231 0125

Dr. Mishra founded the Sankat Mochan Foundation in 1982, with the objective of launching the *Swaccha Ganga* (Clean the Ganges) project to protect the River Ganges from pollution. It was the first organized action by an NGO geared towards public education and awareness building to embrace the entire Ganga Basin. Dr. Mishra is a professor of Hydraulics and Water Resources Engineering at Banaras Hindu University and Head Priest of the Sankat Mochan Temple in Varanasi.

**Hasna J. Moudud**

159 Gulshan Avenue  
Gulshan, Dhaka  
Bangladesh  
Tel: (880-2) 600076/882676  
Fax: (880-2) 865547/831964

Hasna J. Moudud, former member of the Bangladesh Parliament, created a committee of non-partisan parliamentarians representing coastal constituencies working to highlight the tough problems of coastal ecosystems in Bangladesh. As Chairman of a special parliamentary committee on coastal area and environment, she submitted guidelines for a Master Action Plan for saving the fragile coastal ecosystems and marine environment leading to an improvement of the quality of life of the people of coastal areas. She has been campaigning for the regional acceptance and implementation of environmental standards modelled on the UN Convention on the Law of the Sea. She spearheaded efforts both within the parliament and among the public to promote environmental awareness and the involvement of women in environmental issues. She is also editor of *Environmental Weekly Bulletin*.

**Josip Movcan**

Belasova  
14 41090 Zagreb  
Croatia  
Tel: (385-41) 154 986  
Fax: (385-41) 431 515

Mr Josip Movcan, a forestry engineer, has for 32 years been responsible for maintaining the protection and development of one of Yugoslavia's oldest national parks - the Plitvice Lakes in Croatia - which is on UNESCO's World Heritage List. Movcan has been actively engaged in encouraging the abandonment of logging in national parks, to preserve ecosystems. He has thrice been a member of the European Federation of National Parks and Reserves, and is a recipient of the Van Tienhofen Award and the Gold Packard Medal.

**Nigerian Conservation Foundation**

Plot 5, Moseley Road  
Ikoyi, Lagos  
Nigeria  
Tel: (234-1) 686 163/681 385  
Fax: (234-1) 685 378

The Nigerian Conservation Foundation (NCF) is a charitable trust dedicated to the promotion of nature conservation. It launched the "Save the Yankari Game Reserve" campaign in 1984 and established the Lekki Conservation Centre and Nature Reserve as

an outdoor laboratory for school children to educate them on important environmental issues in the country. Following recommendations from NCF, the Natural Resources Conservation Council was established and inaugurated by the President in 1991. They have also launched school clubs and a school magazine called *Tortoise*.

#### **NIKA - Magazine of the Czech Union**

for Nature and Conservation

NIKA - Editor's Office

Slezska 9

120 29 Praha 2

Vinohrady

Czech and Slovak Federal Republic

Tel: (420-2) 215 2023

Fax: (420-2) 255 072

The NIKA magazine, launched in 1979, is best known to the public for its conflict with the then powerful state newspaper, the *Rude Pravo*. During the communist regime, NIKA managed to inform its readers about events in nature conservation and environment protection even behind the Iron Curtain. The magazine covers nature conservation, comments on serious events in the environmental sphere of Czechoslovakia and is published six times a year with a print run of 8,000 copies per issuer.

#### **Paasban/Family**

Planning Association

3-A, Temple Road

Lahore 54000

Pakistan

Tel: (92-42) 212 900/212 799

Fax: (92-42) 306 184

For the past 12 years, The Paasban Women's Development Programme has been working on a national strategy to bring women into the mainstream of development to improve their economic and social status. In 1986, the women introduced smokeless *chulhas* (stoves). Traditional mud stoves used by the majority of the rural population consumed a great deal of already scarce fuelwood. The project team thus organized a series of *chulha* workshops to train women to build, repair and maintain *chulhas*. Fuel consumption has now been reduced by 30 per cent and the women expend less energy gathering wood. Health conditions have also improved as smoke is reduced in communities.

#### **Participatory Development Forum (PDF)**

PM.I. Building

Jl. Gatot Subroto Kav.96

Jakarta 12790

Indonesia

Tel: (62-21) 798 2364

Fax: (62-21) 799 5188

The Participatory Development Forum was launched in 1972 by a group of women leaders in Indonesia to develop an accessible freshwater supply plan through community self-help. Bumiredjo Village lacked a safe water supply system and the only accessible water was a contaminated river. Following a serious epidemic that killed many people, the villagers built a water supply structure of tanks and bamboo pipes. These were later replaced using funds from CIDA. Now diarrhoea epidemics and skin disease incidents have dropped markedly, and the infant mortality rate fell from 125 per 1,000 in 1980 to 80 per 1,000 in 1990.

#### **Suryo Wardhoyo Prawiroatmodjo**

Environment Education Centre (PPLH)

Seloliman, Trawas

Mojokerto 61375

Jawa Timur

Indonesia

Tel: (62 31) 575884

Fax: (62 31) 817616

Dr. Prawiroatmodjo, veterinarian, initiated the establishment of Pusat Pendidikan Lingkungan Hidup (PPLH), an environmental education centre in East Java, Indonesia. The aim of the centre is to stimulate awareness and extend conservation education to all parts of Indonesia and South East Asia. The centre activities are mostly of a practical nature covering veterinary practice, observation, and field work along with other practical examples. He also joined the Green Indonesia Foundation to help them spread environmental education.

#### **Quercus**

Associacao Nacional de Conservacao

da Natureza

Rua Trindade Coelho - IC, 4o

4000 Porto

Portugal

Tel: (351-2) 320 324

Fax: (351-2) 200 3390

After six years, Portugal's National Association for Conservation of Nature - *Quercus* - has grown to 5,500 members, organised in 18 delegations throughout the country and several research bodies and task groups. *Quercus* is a non-profit making, non-partisan association that conducts studies/assessments of Portugal's flora and fauna and establishes environmental projects with business enterprises and governmental bodies adhering to the principles and aims of sustainable development. *Quercus* has made important contributions to environmental awareness through media campaigns. It is the publisher of the *O Teixo* newsletter, *Cademos Quercus*, as well as other nonperiodical publications. *Quercus* is also a member of several international organisations.

#### **Vo Quy**

Centre for Natural Resources and Environmental Studies (CRES)

Vietnam National University

19 Le Thanh Tong Street

Hanoi

Vietnam

Tel: (8404) 825-3506

Fax: (84 04) 826-2931

Email: cres@hn.vnn.vn

Vo Quy, a world renowned conservationist, was the architect of the National Conservation Strategy that mobilised the Vietnamese people to plant at least 160,000 hectares of trees per year to make up for the loss of some 2.2 million hectares of forest and farmland during the war. He was awarded the World Wildlife Foundation Gold Medal for his outstanding leadership in pioneering environmental conservation and education in IndoChina. Quy has also spearheaded the rehabilitation of the habitat of the Sarus Crane in IndoChina where it was previously thought to be extinct.

**Charlotte Rajeriarison**

32 Cite des Professeurs  
Fort-Duchesne  
Antananarivo 101  
Madagascar  
Tel: (261) 268 83  
E-mail: charlotte.rajeriarison@blueline.mg

Professor Rajeriarison, a teacher at the University of Antananarivo is also the head of the Ecology Department. She has been involved in the environmental education programme for children between the ages of 6 to 18, in order to make them aware of the benefits of plants and animals. As a professor and researcher, she keeps on teaching and leading student research on environmental problems and agroforestry practices. About 15 research papers have been presented under her direction at the University.

**V. I. Joy Royes**

4 Charlemont Avenue  
Kingston 6  
Jamaica, W.I  
Tel: (876) 970 4171  
E-mail: diam4kidscape@mail.infochan.com

V. I. Joy Royes is a teacher at St. Andrew High School for Girls and Chairperson of the Association of Science Teachers of Jamaica. The Student Science Club in her school began a composting project following the serious waste management problem in Jamaica. The Club tended a compost pile in their school, learning the process and its benefits. The students gained valuable biological knowledge and are using the compost to grow peas. This was preceded by another project on the use of natural pesticides as an alternative to chemical pesticides.

**Saenaua Women's Association**

Anoasa Village West Kwara'ae  
Malaita Province  
Solomon Islands

In 1982, New Zealand funded a reforestation project under a plan negotiated among the Solomon Islands Government, the New Zealand Government and Saenaua landowners. The project was initiated to reduce the slash and burn methods practiced by the local community. Landowners combined their plots and cleared the land. Trees were planted for a minimal wage and the women planted communal vegetable gardens between the stands of trees. This has resulted in deforested lands being replanted and the production of vegetables to supplement nutritional needs.

**M. A. Partha Sarathy**

IUCN Commission for Education and  
Training, Hanisimi, 1 12th Cross  
Raymahal Vilas Ext  
560-080 Bangalore  
India  
Tel: (91-812) 340400  
Fax: (91-812) 341674  
E-mail: partha@sparl.com

Partha Sarathy, Chairman of the Commission for Education of IUCN, founded the first "Tree Brigade" to motivate and educate the people of India on planning and protection of trees. As Chairman of the first IUCN Task Force on the Asian Elephant, he founded four regional offices of the World Wide Fund for Nature. With his personal financial means and influence he has devoted the past 25 years to the cause of conservation education in India and worldwide. He is well known through his radio programme "Environmental School on the Air". He established and taught at a school for children in an elephant forest.

**Taisitiroo Satoo**

Japan Wildlife Research Centre  
2-29-3 Yusima, Bunkyo-Ku  
113 Tokyo  
Japan  
Tel: (813) 33 813 8806  
Fax: (813) 33 813 8958

In 1978, Professor Satoo established the Japan Wildlife Research Centre, a non-profit making NGO which has contributed effectively to the development of government policies for conservation of biological resources in Japan. Under Professor Satoo's guidance, the Centre began technical cooperation with developing countries on wildlife conservation. As President of the Centre and Vice President of the International Union Forestry Research Organizations, he has published several books and more than 100 papers.

**Anesia do Amaral Schmidt**

Caixa Postal, 287  
Campinas SP  
Brazil  
Tel: (56-192) 371 105

Anesia do Amaral Schmidt, 84, and her 86-year-old husband Wolfgang, owners of the "Santa Monica" farm in Brazil, have dedicated their energies to the conservation of their native woods. Their farm comprises about 2,500 trees of 23 different species and after 47 years produces commercially viable hardwoods on a sustainable basis. Although their project began as a hobby, it is now a fully fledged research centre with specialised library and a collection of 234 timber sample species.

**Mukhtar Shakhonov**

480002 7 Lenin prs  
Alma-Ata  
Kazakhstan  
Tel: (7) 33-22-21

Mukhtar Shakhonov, Editor-in-Chief of *Zhalyn* magazine, is well known in Kazakhstan for his articles which raised public awareness of the need for the protection of the Aral Sea. The International Public Committee was established with Shakhonov as its head, which combined the efforts of public organizations, scientists and world specialists to solve the ecological problems in the Aral Region. An international charitable fund was organized with the intention of building a children's hospital and sanitary camp. Shakhonov is also a poet and his revelations of the tragedy of the Aral Sea have earned him worldwide recognition.

**Shanglijia Village**

Ningbo City  
Beijing  
People's Republic of China  
Tel: (86-0574) 473 827

Through the preservation of existing forests and the greening of residential districts, Shanglijia Village has become a model eco-farming village. With the construction of large animal farms, orange gardens and factories for fodder processing, printing, agricultural machinery and hardware, the economic focus of the village has shifted towards being more sustainable and environmentally sound. In addition, a large biogas system has been established to help solve the daily energy problems of the villagers.

**Dr. Daphne Marjorie Sheldrick**

David Sheldrick Wildlife Trust  
P.O. Box 15555  
Nairobi  
Kenya  
Tel: (254-2) 891 996  
Fax: (254-2) 890 053  
E-mail: rc-h@africaonline.co.ke

For over 25 years, Daphne Sheldrick has worked at the 8,000 sq. mile Tsavo National Park in Kenya. She successfully raised and rehabilitated many animals to the wild. She was the first person to succeed in raising orphaned infant elephants to which end she established the David Sheldrick Wildlife Trust. Sheldrick has brought to light the more subtle behavioural traits of wild creatures, and has featured prominently on numerous television programmes. She has passed on her experiences in four popular books, written articles on wildlife matters and lectured extensively in Kenya and abroad.

**Eung-Bai Shin**

Hanyang University  
#10 264-454 Limun 2-Dong  
Tongdaemoon-Gu  
Seoul 130-082  
Republic of Korea  
Tel: (822) 967 0770

For nearly 20 years, Professor Shin has been very active in the field of environmental science and engineering, playing an important role in the establishment of the national strategy for the "Cleaner and Greener Programme" at the government level, as well as the establishment of the National Basis for Institutional Reform, which led to the establishment of six regional environmental offices in the Republic of Korea. He has received numerous awards including the National Presidential Certificate of Honour for Science Day and Green Medal on World Environment Day in 1988.

**Society for the Protection of Nature in Israel**

4 Hashfela St.  
Tel Aviv, 66183  
Israel  
Tel: (972-3) 375063  
Fax: (972-3) 377695

Since 1953 the Society for the Protection of Nature in Israel has involved people of all faiths (Jews, Christians and Muslims) in outdoor recreational and learning activities in its efforts to raise environmental awareness. The Society operates 25 Field Study Centres that organize direct public action to save threatened natural and historic sites. Research is conducted in conjunction with Israeli Universities and International seminars on environmental education for both developed and developing countries.

**Southern Women against Toxics**

101 West Monroe Street  
P.O. Drawer 1526  
Livingston  
Alabama 35470  
United States of America

Southern Women against Toxics (SWAT) mobilizes and empowers communities to fight the health and environmental threats posed to their communities by toxic waste, garbage dumps and incinerators.

SWAT works to empower women in grassroots environmental leadership in order that they can, if they chose to do so, can take these leadership skills to the next forum. It serves as a clearing house of information for the purpose of community education. The Director is a speaker who has been featured in international publications and in television shows in the United States and Japan. Campaigns and protests have successfully blocked numerous would-be hazardous waste facilities. In addition, protests have brought attention to environmental issues and citizens' rights.

**Sri Lanka Journalists Forum (SLEJF)**

P.O. Box 26, 434/4 Sri Jayawardenapura  
Colombo  
Sri Lanka  
Tel: (94-1) 873 131/827 810/883 187  
Fax: (94-1) 883 187  
E-mail: slejf@sri.lanka.net

Sri Lanka Journalists Forum (SLEJF), founded in 1987, is a professional body of print and electronic media journalists engaged in environmental communication and awareness building. It is a registered NGO, with 278 members. To date they have trained over 350 Sri Lankan journalists on environmental reporting and sensitised them to environmental issues. They in turn have assisted in creating public awareness on sustainable development. As demand for training has been high, SLEJF introduced a four-month Diploma course in Environmental Journalism. They have now trained 260 students and received over 4,500 applications for last year.

**Bjoern Strandli**

Strandasveien 63A  
3135 Torrd  
Norway  
Tel: (47-38) 83883

Bjoern Strandli, County Environmental Chief in Norway, developed an environmental programme integrating various land-use activities and interests such as farming, recreation areas, nature conservation, archaeological monuments and development. He organized a joint Nordic project aimed at the practical application of conservation strategies on current land use planning at Municipal and County level. The project has made a significant contribution to the development of Nordic approaches to environmental management.

**The Dutch Cyclists Union (Fietzersbondenfb)**

Postbox 2150  
3440 DD Woerden  
Nederlands  
Tel: (31-3480) 23119  
Fax: (31-3480) 17058

The Dutch Cyclists Union was established in 1975 to fight for the rights of millions of Dutch cyclists. More than 50 local groups have joined to influence policy at a municipal level by means of street actions, negotiations and expert advice to encourage more people to use their bicycles, and therefore protect the environment by avoiding polluting modes of transportation. Today, the Netherlands is a model of how to integrate cyclists into a conventional public traffic network.

**The Xian Eco-Animal Breeding Farm**

Dawa County  
Liaoning  
People's Republic of China  
Tel: (86-4271) 892519

In 1986, The Xian Eco-animal breeding farm became a demonstration eco-farming site. In order to solve the pollution problem from the village's large sized pig-farm, the farm undertook the construction of eco-farming engineering involving purification systems of gourd pools, fish ponds and paddy fields. This not only significantly reduced the pollution problem, but also increased economic profits. The farm has now become a successful garden-like farm that promotes the development of eco-farming in the county. All 14 farms that followed this example have worked to integrate social, economic and environmental goals.

**Jon Tinker**

Senior Associate  
Sustainable Development Research Institute  
University of British Columbia  
Box 194 Horsefly, BC, V0L 1L0  
Canada  
Tel: (205) 398 3536/(604) 669 6188  
Fax: (205) 398 3536/(604) 669 6188  
E-mail jtinker@sdri.ubc.ca

Jon Tinker is founder and President of the Panos Institute, an independent international NGO working in partnership with others to develop greater understanding of sustainable development. Panos produces information itself, and helps NGOs and media in the South to strengthen their information capacities. He founded and directed Earthscan, Panos's predecessor, 1974-86, was environment and development editor of *New Scientist* magazine 1969-77, and is a former member of the UK Royal Commission on Environmental Pollution and a former Winston Churchill Memorial Fellow.

**Pravit Tomyavit**

Thai Yuwa Kasetkorn Promotion  
Foundation  
2143/1 Phaholyothin Road  
Bangkhen, Bangkok 10900  
Thailand  
Tel: (662) 579 3856  
Fax: (662) 561 4828

Pravit Tomyavit works with the Thai Yuwa Kasetkem Promotion Foundation that funds newly trained young farmers to promote sustainable development. Under the Royal Patronage of HRN Princess Maha Chakri Sirindhorn of Bangkok, the Foundation assists approximately 6,000 groups with about 200,000 members in Thailand. Tomyavit helped organize a Regional Workshop for Rural Youth in 1989 and 34 youth leaders from 10 countries in Asia/ Pacific attended. A youth environmental network was thus set up, which now publishes a bi-annual regional bulletin.

**Erna Witoelar**

Jalan Cidurian 39  
Jakarta 12170  
Indonesia  
Tel: (62-21) 714 204  
Fax: (62-21) 710 719

As first Executive Director of the Indonesian Environmental Forum (WALHI) and founding member of Friends of the Environment Fund (DML), Erna Witoelar is a leading force behind Indonesia's environmental movement. She is also a leading consumer advocate in her country and is now the President of the International Organisation of Consumers Unions (IOCU). Witoelar initiated several nationwide environmental campaigns, and has written extensively on topics covering the environment and consumer protection. She has been a strong promoter of the role of NGOs in the development process at national and international level for 20 years. She has served on the Advisory Committee of the Brundtland Commission, and was a member of the Commission on Developing Countries and Global Changes.

**Women of Mupata Village**

Matsa Store, Mupata Village  
P.O Box 119  
Gutu  
Zimbabwe

The women of Mupata village in Zimbabwe helped establish a self-help community group to generate income and implement sustainable water projects to meet agriculture and food production needs in the village. The project, initiated in 1989, with the assistance of the Agricultural Technical and Extension Services and the Ministry of Women's Affairs, managed to drill 10 boreholes, providing the community with access to clean water. "Food societies" were organized to engage in poultry farming, and manure gathering to be used to fertilise maize fields. The project, which has greatly improved the standard of living, is being expanded to include cattle rearing.

**Abdullatif K. Youssef**

Marine Research Institute  
Tishreen University  
Lattakia  
Syria  
Tel: (963-41) 25658

In 1981, Professor Youssef, Director of the Marine Institute of Syria, conducted research on air pollution in Kuwait, a first for an Arab country. This research determined the high risk polluting effect that the chemical character of recycled oil had on the environment. Much of his recommendations have been adopted by the authorities. Professor Youssef has initiated graduate study programmes on the marine environment.



## 1993 GLOBAL 500 LAUREATES

### ADULTS

#### **Ndyakira Ntamuhirra Amooti** (deceased)

Ndyakira Ntamuhirra Amooti is a Ugandan journalist who specializes in writing on African wildlife. He does not merely describe them, but he calls world attention to the poaching and smuggling of animals for laboratory experiments, exhibitions and other forms of ill treatment. At great risk to his life and career, he has written about and exposed the practice that has enabled him to reap rewards and recognition from conservation groups around the world.

#### **Mark Attwater**

43 Watlington Street  
Reading  
Berkshire, RG1 4RF  
United Kingdom  
Tel: (44) 118 950 9495  
Fax: (44) 118 950 9495  
E-mail: markattwater@lineone.net

Mark is an expert in rehabilitating captive gorillas and reintroducing them into their natural habitats. Invited to work in the Congo, he single-handedly solved some of the problems associated with this particular species. Aside from establishing the Brazzaville Gorilla Rescue Centre he also established an efficient legal confiscation procedure for CITES-listed primates. In addition, he rehabilitated, medically and socially, 22 orphan gorillas; implemented a successful reintroduction project; raised the awareness of the general public on the legal status of gorillas; and trained Congolese staff in gorilla rehabilitation and management.

#### **Roselie Bertell**

International Institute of Concern for Public Health  
830 Bathurst Street  
Toronto, Ontario M5R 3G1  
Canada  
Tel: (416) 533 7351  
Fax: (416) 533 7879

Roselie Bertell started her research work on cancer in 1970. She developed epidemiological methods to detect the health effects of X-rays and of ionizing radiation from nuclear devices and radioactive materials. She conducted health programmes for people who received radioactivity on the Marshall Islands in the South Pacific. Ms. Bertell supports small NGOs involved in public health worldwide. In Canada, she is campaigning against uranium mining activities in the province of Saskatchewan. Her book *No Immediate Danger: Prognosis for a Radioactive Earth* has been translated into French. She is the President of the International Institute of Concern for Public Health. In 1986 she received the Alternate Nobel Prize.

#### **Tom Burke**

Department of the Environment  
Room N14/13, 2 Marsham Street  
London SW1P 3EE  
United Kingdom  
Tel: (44-207) 270 4266  
Fax: (44-207) 276 3269

Tom Burke has been called the United Kingdom's longest serving and most effective environmental campaigner and thinker. He has lived up to this reputation by so effectively managing the non-governmental organization Friends of the Earth (UK) that it has become one of the most influential environmental groups in the world. He has headed the Green Alliance and the European Environmental Bureau and brought them to greater heights of effectiveness.

#### **Luis Bustamante**

c/o Tiahoga Ruge  
Jaime Nuno 77  
Mexico  
Tel: (525) 846 0280/662 5017  
Fax: (525) 846 0280

Luis Bustamante has dedicated the last 15 years of his life to the protection of nature and the environment in Mexico. In 1990, he formed the Mexican Association of NGOs for the Defense of the Pacific Coast, and he has brought together Mexico's most important NGOs to form the Committee for the Defense of The Chimalapas, the last tropical rainforest whose existence was threatened by the construction of a main highway. Thanks to his efforts and pressure put forth by his committee, in 1992, he managed to convince the government to change the route of the highway. At present, the organization is working with indigenous people and inhabitants of this last rainforest to begin sustainable development projects, which would enable them to preserve their habitat.

#### **CHASKI Children's Magazine**

c/o Elisabeth Huttermann  
Casilla 5742  
La Paz  
Bolivia  
Tel: (591-2) 326 419  
Fax: (591-2) 375 042

The Bolivian magazine *CHASKI* was created out of love for children. The publication appeals not only to pupils and teachers, but to those children whose parents are out working in the fields, mines, factories or streets. It was conceived in February 1983 in Cochabamba as a 21-page magazine with a circulation of 1,80. Today, it boasts a circulation of 10,000 and is published in La Paz. *CHASKI's* aim is to transfer ideas, optimism and new approaches. It creates in the child an awareness of his surroundings and offers an understanding of the various social groups that make Latin America. The reading child can express himself through the magazine as well as learn about himself. The magazine encourages love for nature and the environment and offers a balance between the individual, nature and society.

**Tsevegyn Davaajamts**

Building No. 54  
Apartment No. 28, Nairamdal District III  
Ulaanbaatar 49  
Mongolia  
Tel: 50681/51014

Tsevegyn Davaajamts is a professor of biology and botany and has published nine books, 40 scientific articles, and more than 80 feature articles on these subjects. His interest in these matters did not confine him inside the walls of academe. He was active in the application of ancient traditions to fatten cattle without damaging pasturelands. He has also led his people in planting over 80 million trees, which have survived to this day because of the methods used in preparing saplings. He is also known for his contribution in the publication of Mongolia's national atlas where he provided maps on damaged pastures.

**ECOVER Ltd**

Industrieweg 3  
2150 Oostmalle  
Belgium  
Tel: (32-3) 312 4373  
Fax: (32-3) 311 7270

ECOVER Ltd. offered European consumers a truly green alternative by introducing, in the late 1980s, a wide range of household cleaning agents – including heavy-duty ones – based on purely natural ingredients such as vegetable oils and herbal and fruit extracts. Through intensive research and development, the products capture a leading market share not only for their effectiveness and reliability, but also for their environmentally friendly approach.

**Freddy Ehlers**

Pasaje e de la Rosa  
#120y Marcos Jofre  
Quito  
Ecuador  
Tel: (594-2) 446 838/457 291

Freddy Ehlers is an Ecuadorian communicator, who has been working in television and mass media since 1970. His series on Latin America *Let's Talk About Ourselves* (1979) became the first of its kind to show the cultural and natural values of the Andean region. In 1990, he began with the production of a programme called *La Television*, a programme, which emphasizes environmental issues. One of the objectives of *La Television* is to create, amongst Ecuadorians, an awareness and a concern for their environment. It has become the most popular of all Ecuadorian productions and has the highest rating of all TV programmes.

**Hafidi My El Mehdi**

Direction Régionale des Eaux et Forêts  
Taza 35000  
Morocco  
Tel: (212- 61) 43 46 45  
Fax: (212-55) 67 37 88  
E-mail: mehdihafidi@yahoo.fr

Once upon a time, a rare species of wild sheep (*Amotragus Lervia*) roamed over 15,000 km of the rock peaks of the eastern Moroccan range. In 1985, forestry engineer Hafidi My El-Mehdi undertook the first census, which revealed that only 40 of this rare species remained in these daunting mountains. The extinction of this species was the result of poaching by the local population. Mr.

Hafidi reacted by locating and counting the animals that were left, and by sensitizing the local population. He brought in food and water; fought against poachers and undertook a study, which would lead to the creation of a national park to save this species. Mr. Hafidi convinced high-level authorities to support this park which is currently being set up.

**Dr. Birute Galdikas**

Orangutan Research & Conservation Project  
Tromol Pos 1, Pangkalan Bun  
Kalimantan Tengah  
Indonesia  
Tel: (62) 532 21374/310 207 1655  
Fax: (62-310) 207 1556

Dr. Birute Galdikas is recognized as the most knowledgeable person on the subject of orangutans. She has lived in the tropical rainforest of Borneo for over 20 years. Like Jane Goodall, Dr. Galdikas was encouraged by the renowned Dr. Louis Leakey to study the unique Asian great ape with long red hair – the orangutan or “person of the forest”. She not only studied the wild orangutan and devoted her time to the maintenance of the rainforest, she also rehabilitated those orphaned orangutans placed in her care. She is also devoted to the Indonesian people and their culture. Dr. Galdikas founded and is president of the Orangutan Foundation International (OFI) which has chapters in five countries and a small devoted membership. She helped care for and repatriate the famous and very ill “Bangkok Six” orangutans in 1990. As an intergovernmental liaison person, she helped walk both governments' officials through a sea of international red tape to secure the proper permits for the return to their native land of Indonesia. In addition, Galdikas, through OFI helped draw attention to the lucrative illegal orangutan pet trade in Taiwan. Her actions resulted in the decision of the Taiwan government to ban the import of all primates to the island; the creation of the Orangutan Foundation in Taiwan and the repatriation of 10 confiscated orangutans to Indonesia.

**Jeff Gibbs**

Box 371-1917  
West 4th Avenue  
Vancouver, B.C. V6J 1M7  
Canada  
Tel: (604) 687 5558  
E-mail: gibbs@lifeweb.org

Jeff Gibbs is one of Canada's foremost environmentalists. He has travelled to the United Kingdom, Australia and has criss-crossed Canada 10 times speaking to youth of all ages, presenting acclaimed slide shows and educating his audiences on Canada's and the world's threatened ecosystems. Much of Jeff's work has been through the Environmental Youth Alliance (EYA) which he founded in the autumn of 1989. EYA's goal is to provide a forum for Canada's youth and school environmental groups to exchange ideas, news, concerns, knowledge and success stories. The EYA is a network of youth encouraging, educating and empowering each other. It has grown into one of Canada's largest environmental groups comprising 20,000 youth. The EYA has held two national and international conferences and published seven national newspapers which has been sent to every school in Canada in both English and French. His work with the EYA has supported native populations who face the destruction of their traditional homelands, such as the Haida Indians in South Moresby. Jeff has also worked with Chief Paiakan of the Kayapo Indians in the Amazon rainforest who faced displacement when a proposed dam would have flooded their habitat. Jeff's most recent work has been with the Penan Indians of Sarawak, Indonesia.

**Akbar Sara Hussain**

Arad 4432  
 Street No. 442, NO. 1365  
 Muharaq  
 Bahrain  
 Tel: (973) 398 8673  
 Fax: (973) 398 6294

The oil industry almost exclusively employs men in the field due to the high risks involved. More so in situations requiring great skill and courage – like capping oil head fires. Akbar Sara Hussain stands tall in the oil industry of Kuwait, not only because she is a petroleum engineer, but more importantly, because she played a key role in stopping the over 700 oil fires set ablaze by retreating Iraqi troops during the 1991 Gulf conflict. Being a woman did not deter her from doing what she had to do. She stayed in Kuwait during the invasion, kept the computer files of all well heads in her home, posing great danger to herself and her family. With her courage and leadership, she helped direct the capping of the blazing well heads, which were put out in less time than expected and earned her a place in ecological history.

**Calestous Juma**

Professor of the Practice of International Development and Director, Science, Technology and Globalization Project  
 John F. Kennedy School of Government  
 Harvard University  
 79 John F. Kennedy Street  
 Cambridge, MA 02138  
 United States of America  
 Tel: 1 (617) 496-0433  
 Fax : 1 (617) 495-8963  
 E-mail: Calestous\_Juma@Harvard.Edu  
 Web: <http://www.cid.harvard.edu/cidtech/>

The African Centre for Technology Studies, established in 1988, is the brainchild of Dr. Calestous Juma. He has been the driving force behind the important contributions made by the Centre to Africa's quest for solutions to the complex issues of biotechnology, biodiversity and the transfer of technology. The work being done by the Centre has had tremendous cross-sectional impact on environmental management throughout Africa. A prolific writer he has authored and co-authored several books, including *The Gene Hunters* and *Biotechnology and Biopolicy*.

**Ian Bruce Carrick Kiernan**

37 Willoughby Road  
 Kirribilli  
 Sydney 2061  
 Australia  
 Tel: (612) 9692 0700  
 Fax: (612) 9692 0761

It has been said that great acts begin with small ideas and Ian Kiernan is just the man to ask when you want to build things up from scratch. Returning from a 27,000 nautical mile solo yacht race around the world, Ian was appalled at the state of the world's oceans. This experience prompted him to form a small group of volunteer friends and supporters to clean-up Sydney Harbour. The result was a resounding success and since 1989 Clean Up Australia had become a national activity which has grown from 200,000 volunteers to 400,000 in 1992. Clean Up Australia was given the "Event of the Year Award" by the Australian Day Council in recognition of its achievements. Five year since the project began, Ian is now looking forward to the "Clean Up the World" project where Clean Up Australia will team up with the United Nations Environment Programme (UNEP) to do just what

the title implies – clean up the world. The project will focus international attention on the common issues of waste management.

**Valery P. Kukhar**

App. 34, 17 Stritenska street  
 Kiev  
 Ukraine  
 Tel: (380-4) 559 9800  
 Fax: (380-4) 224 3243

Valery Kukhar is a proponent of ecological monitoring in the Ukraine. He contributes his expertise in resource-saving technology by advising on the appropriate location and construction of industries. He has turned the attention of the public to the ecological problems in the Ukraine through the mass media. Since the Chernobyl incident, he has devoted his time to examining ways of minimizing its harmful effects. He has also continued to apply his knowledge in chemistry to conduct research in the conservation of natural resources, the use of agricultural chemicals, and well-water retaining capacities.

**Susan Lakhani**

Toco Main Road  
 Matura  
 Trinidad & Tobago  
 West Indies  
 Tel: (809) 668 0171/662 5114  
 Fax: (809) 645 4288

Excessive slaughtering of leatherback turtles at Matura and other beaches, placed this species on the brink of extinction in Trinidad and Tobago. Ms. Lakhani took it upon herself to reverse the negative image of her village as slaughterers and abusers of wildlife. She almost single-handedly patrolled Matura Beach at night when Forestry Division staff were unable to do so due to the lack of staff and other resources. As a result of her efforts, Matura is now a true conservation sanctuary for leatherback turtles, and the nesting beach is a source of income and pride to the village. She walked the length of this lonely beach night after night, accompanied by her husband, educating visitors about the danger of lights and noise which can hamper the nesting process; keeping non-permit holders away; and most importantly, keeping would-be poachers at bay. Susan Lakhani did this for absolutely no remuneration, but for the love of nature, her community and her country. Thanks to her efforts, the Forestry Division, for the first time, benefited by receiving scientific data on a regular basis.

**Dr. Jesus Estudillo Lopez**

Rumania 909 Col. Portales  
 Mexico D.F.  
 C.P. 03300  
 Mexico  
 Tel: (525) 672 0772/532 0182

Dr. Jesus Estudillo, a Mexican veterinarian and animal reproduction and nursery specialist, is also known as a bird breeder. In Latin America, he is known as the "Father of Cracidae". In the 1950s, he established a breeding programme and infrastructure in Mexico City called "La Siberia" for endangered species. When Dr. Estudillo started the project, the importance of ex-situ conservation for possible reintroduction of the birds to their natural habitat was at an initial stage. His research involves technological development of vaccines for birds (Cracidae, Cranes and Parrots); research on the nutritional requirements of families and species; reproduction, breeding and enhancement of genetic

variation with ex-situ techniques for species of Cracidae; research on habitat requirements for Cracidae, Cranes and Parrots; the establishment of artificial habitats for ex-situ management; research on the natural selection process of the above species; research on plagues and diseases that affect these species; research on the reproductive behaviour of birds as well as on the competition within and between species. Dr. Estudillo built a centre for endangered bird species where 1,200 birds are represented, encompassing 100% of all Cracidae in the world, 80% of the Cranes and 70% of the existing endangered Parrots. Dr. Estudillo has for 40 years carried out all his research and programmes without commercial or political interest and at great personal and financial costs.

#### **M. C. Mehta**

5 Anand Lok  
Khei Gaon Marg  
New Delhi 110049  
India  
Tel: (91-11) 643 6512

If the thousands of medieval crusaders only partially and temporarily delivered the Holy Land from the Turks, this one crusader has probably won more battles in the courts of India. M. C. Mehta, a lawyer, has led a crusade against polluters despite public apathy, the threats to his life, the financial costs, and the generally hostile circumstances surrounding his activities. In his peaceful fight, he has succeeded in getting orders from the Supreme Court to include environmental messages in the cinema, in television, and to include the environment as a compulsory subject in schools up to the standard 12 level. He regularly conducts green marches involving students, professionals, and ordinary people to widen environmental awareness and to get more positive action from the grassroots level to the bureaucracy.

#### **Theodore Monod**

14 Quai D'Orleans  
75004 Paris  
France

Born in 1902, Monod has had an extremely rich and fascinating life, dominated by his passion for knowledge, adventure and justice. He is considered one of the world's pioneers in environmental awareness and action. He graduated as a Doctor of Science in marine biology and has maintained his interest in this field throughout his life. His early duties sent him to West Africa for the development of fisheries, and there he discovered the appeal of the desert. While he has always been recognized as a fish expert, he has become world famous for his many explorations on camel-back throughout the great Sahara desert. He became the founder, and for 25 years, the Director of the French Institute for Black Africa (IFAN) in Dakar, Senegal, which is still the major natural history institution of French-speaking Africa. After his retirement, at the age of 70, Monod has been active in the Academy of Sciences. He has written a number of books and hundreds of scientific papers. Monod has received many prestigious awards and decorations including "Officier de la Legion d'honneur et des Palmes academiques" and "Chevalier du Merite agricole et de l'Etoile noire". He also received the Royal Geographical Society's Gold Medal (1960) and the American Geographical Society's "Charles P. Daly" Medal (1961).

#### **Nancy Lee Nash**

5C Dragon View  
39 Macdonnell Road  
Hong Kong  
Tel: (852) 2523 3464  
Fax: (825) 2869 1619  
E-mail: nnashhk@aol.com

Nancy Nash conservationist, journalist and environmental education consultant, has continuously shown devotion and commitment towards wildlife conservation and environmental education. She initiated the first contact between World Wildlife Fund International (WWF) and the Chinese Government. This led to a major cooperative effort to sustain the existence of the endangered giant panda. She helped organize the transportation of seven Siberian tigers from the Bronx and Minneapolis zoos, where they were being successfully bred, to China where too much in-breeding was taking place. Currently, she is involved in a major project with the potential of reaching more than 500 million people in Asia and beyond. Nancy Nash is responsible for initiating, financing and running the project entitled *The Buddhist Perception of Nature ' A New Perspective for Conservation Education*. This project develops a new perspective for conservation education by using traditional Buddhist teachings to strengthen attitudes toward the protection of the environment, and to raise public awareness. Her work has inspired similar projects aimed at probing the environmental ethics of religious and native communities throughout the world. For initiating this globally significant project, Nancy Nash received the prestigious Rolex Award for Enterprise in 1987.

#### **Otil a Beluad**

P. O. Box 647  
Koror  
Palau  
Tel: (608) 488 2861

Otil a Belaud is a women's and young people's organization in Palau engaged in serious defence of their culture, independence and the country's very unique environment. Otil a Belaud worked against plans by Japan, Iran and the USA to base a superport oil terminal in Palau. Thanks to its efforts and those of other international environmental groups, the plan was shelved. Palau has a unique culture where land rights pass through women leaders. There are some unrivalled ecosystems in Palau, which must be preserved and the women are determined to do this. Current environmental activities of Otil a Belaud include preservation of traditional taro swamps, lobbying for alternative sustainable energy systems, and a limit on building heights. It is an organization, which has utilized the grassroots line of communication to move more effectively.

#### **Esther Peter-Davis**

Institut Eco-Conseil  
6 rue d'Arras  
67000 Strasbourg  
France  
Tel: (33-88) 610 467/601 619  
Fax: (33-88) 606 397/601 712  
E-mail: atdavis@dsuper.net

Esther Peter-Davis has been active, for many years, in environmental causes and in numerous grassroots initiatives. She

led one of four European Community pilot projects, during the European Year of the Environment, to test a concept developed in Germany - the eco-counsellor who advises households on how to behave better environmentally. So successful was the project that a separate nonprofit association, the Eco-Counseling Institute was created. The eco-counselor is a highly qualified expert/mediator whose main employers are cities and local authorities. Since 1987 more than 60 have been employed. A second institute has been set up in Belgium and a third is in the planning stage. Its training is so successful that it is now being copied throughout France by universities. Eco-counseling has begun to train the first Eastern Europeans as eco-counselors for small and medium-sized enterprises. She organized the First European Workshop (1989) of Eco-counselors and was mandated to set up the European Environmental Counseling Scientific Cooperation Network.

#### **Phornthep Phornprapha**

106 Soi Ruen Roam, Hua Mark  
Ramkamhaeng  
Bangkok  
Thailand  
Tel: (662) 513 3303/512 0127  
Fax: (662) 513 3279

The involvement of the private sector in environmental awareness in Thailand has acquired a new vision with a project called Think Earth. This project, conceptualized by Phornthep Phornprapha has to date mobilized over 250,000 students from government and private schools to participate in helping solve environmental problems at an early age. In the past two years he has been able to disseminate conservation awareness, throughout the country, as well as plant half a million trees to revive Thailand's dwindling forests. To sustain this activity, Phornthep founded a Forest Ranger Fund, which also supports the Huaykakaeng Wildlife Sanctuary. For his efforts, in 1992, Phornthep received the Best Environment Conservationist Award and the Best Public Promotion on Environmental Issue Award from the Thailand Marketing Awards.

#### **Dr. Darrell Addison Posey (deceased)**

Since 1977, Darrell Posey has worked tirelessly with the indigenous people of the Amazon to help them become aware of the importance of their own knowledge. Dr. Posey established and directed a 20-person inter-disciplinary scientific research team to determine, statistically, the importance of indigenous knowledge. This endeavour included an environmental education programme for the indigenous people themselves which would strengthen their resistance to selling their resources, such as their mineral rights and their forests. In 1988, Dr. Posey established the Institute of Ethnobiology in the Amazon (INEA), a non profit organization incorporated under Brazilian law, to help indigenous people develop markets for their own natural products and in so doing proving that financial options are viable using traditional sustainable models without resorting to the destructive activities of the developers.

#### **Dr. Vandana Shiva**

Third World Network  
A-60 Hanz Khas (2nd Floor)  
New Delhi 110016  
India  
Tel: (91-11) 657 434/643 5045  
Fax: (91-11) 462 6699

Dr. Shiva is among the most outspoken defenders and campaigners for the Third World poor – particularly women. She forcefully demonstrates that they are not to be blamed for environmental degradation. Initially trained in particle physics, she adopted a comprehensive approach on environmental issues as coordinator of the Research Foundation for Science, Technology and Natural Resource Policy in Dehra Dun, India. She is one of the most sought-after speakers on environmental matters and among her many books, *Staying Alive: Women, Ecology and Survival in India* has become a classic.

#### **The Tengtou Village**

Fenghua  
Zhejiang  
People's Republic of China

Since 1965, Tengtou Village in Zhejiang Province has undertaken environmental protection by combining agriculture with forestry, animal husbandry, fishery, industry and trade. The outcome of 25 years of effort is the realization of productive fields and underground irrigation. Along with large-sized animal farms, biogas pools and gas supply piping facilities, a three-dimensional cultivating and breeding eco-farming structure of forest and rice planting has been set up in the village. Their recycling system of farming, animal husbandry, cultivation, by-product processing, biogas use in lieu of fossil fuels and their use of organic fertilizers, reduces the amount of chemical fertilizer and pesticides used. In 1990, the profit of the village was 1.71 million yuan RMB, which greatly raised the community's level of education, welfare and sanitation. Three districts have been set up in the village: industrial and trade, education and residential. With the construction of five non-polluting clothes, fodder and diamond factories, it is now a beautiful eco-village.

#### **TIME Magazine**

Rockefeller Center  
New York, N.Y. 10020  
United States of America  
Tel: (212) 586 1212  
Fax: (212) 522 0451

*TIME*, an international news magazine, has consistently displayed a genuine concern for the environment and played a vital and meaningful role in informing its millions of readers about how they can help to improve the environment.

## YOUTH

### ARCHIPEL

The Children of Fleur de Lampaul  
9h. rue de la Meule  
85350 Ile D'Yeu  
France  
Tel: (33-16) 5158 3075

In 1979, a young teacher, Charles Herve-Gruyer set sail on *Fleur de Lampaul* with a number of troubled children and adolescents, as well as scientists from Europe. The goal of their expedition was to study cetaceans (270 observations of 12 species were made). In 1990, *Fleur de Lampaul* became the first sailship in France to offer children oceanographic courses. Documents on the marine environment are produced by the children and the scientists: 10 films – three of them for schools, 130 TV spots in more than 20 countries, 680 press stories, 600 radio broadcasts and photo exhibits in schools. Following the success of these expeditions, European authorities decided to support the project. The sailship is in the process of being recognized as a Scientific and Technical Cultural Centre by the Ministry of Research and Technology. In 1992, *Fleur de Lampaul* set off on a 26-month sailing expedition across the continents to study some of the ecosystems of our planet, including sea, desert, equatorial Africa, Amazonian forests, coral reefs, and to meet indigenous seafaring peoples.

### Severn Cullis-Suzuki

Environmental Children's Organization  
2477 Point Grey Road  
Vancouver, B.C. V6K 1A1  
Canada  
Tel: (604) 738 6956

If children could be made leaders in environmental programmes, Severn would surely be among them. She makes more sense than most adults who engage in small talk and do nothing. Severn, like many children her age, are doers and that means a lot when it comes to the environment. At age 5, she fought for the Indians in British Columbia to protect them from logging interests. At age 10, she founded the Environmental Children's Organization, which participated in the Earth Summit and brought the house down with her impassioned speech.

### Chandra Degia and Jimmy Brown

Wildlife and Environment Conservation Action Now (WECAN)  
c/o Hope Zoo  
Hope Gardens  
Kingston 6  
Jamaica  
Tel: (809) 927 1085

Wildlife and Environment Conservation Action Now (WECAN), formed in 1991, encourages environmental awareness among Jamaican youth; the development of a sustainable conservation ethic; and resource appreciation. WECAN concentrates on youth teaching youth, Chandra and Jimmy have been the catalysts. Programmes and activities, which have been implemented, include nature hikes/camping/caving, field work with biologists, organic gardening, paper recycling, environ-rap (music), presentations by biologists, a biannual environmental magazine, a children's zoo, bird watches and slide show presentations. They have organized a number of field excursions and have become knowledgeable about

the birds of Jamaica and their habitats, and have made a number of presentations on the subject. Chandra and Jimmy taught environmental education, developing their own curriculum, finding examples, and promoting enthusiasm for conservation among less-privileged children. Both have devoted many hours to research and to the efficient management of WECAN.

### Inter College

P. O. Box 4005  
Nicosia  
Cyprus  
Tel: (357-2) 456 892

In April 1991, Friends of the Earth launched the first recycling scheme on the island. A special *Guide to Recycling* brochure was published and circulated to schools on the island. Posters, stickers and reusable bags were given to all individuals and schools interested in initiating their own small scale recycling programme. In addition, seventy bins were placed in key areas in order to promote recycling in the community. Unleaded petrol has just recently entered the Cyprus market. In April 1992, Friends of the Earth, in collaboration with Inter College, launched a campaign aimed at raising awareness on the effects of lead on human health. Inter College's commitment to environmental protection is also reflected in its initiative to set up a course on environmental protection for business individuals, making it the only environmental studies course in the entire academic sector of the island.

### Nyahode Union Learning Centre

P. O. Box 9  
Chimanamani  
Zimbabwe  
Tel: (263) 2451

The valley where the Nyahode Union Learning Centre is located used to be a white commercial farming area until 1980 when some refugees from Mozambique settled there. They established a secondary school, which could also be attended by young adults. Soon, a land use plan was drawn up and the students began reforestation, planting orchards, building dams and spillways to harness the high amount of rainfall for use in irrigation of the fields. With the green cover, water has not been a big problem and their area has been made into a model community.

### Nafisa Shah

Newsline Publications  
3-A Sandhaven Apartments  
Frere Town FT 2213  
Karachi  
Pakistan  
Tel: (92-21) 515 744/523 550

Nafisa is a journalist for Newsline publications based in Karachi, Pakistan. She has written articles for her monthly magazine, but three of these stand out in support of environmental conservation. One is an article on a village whose inhabitants use dirty water from the Lyari river for all their needs, thus resulting in disease. The article mobilized the villagers into action and they now enjoy the benefits of a water project funded by the World Bank. Another article resulted in pressure against the government from building a highway across a national park. The highway has since been rerouted outside the wildlife preserve. A third article also pressured the government, through a court order, to stop the order which allows the hunting of the Houbara Bustard.

**Macon L. Terry**

Children's Alliance for Protection of the Environment, Inc.  
373 Westminster  
Houston, Texas 77024-5625  
U.S.A  
Tel: (713) 827 8286

Terry is an action-oriented environmental achiever. As a boy scout, he led in the effort to save the endangered green and ridgeback turtles and organized a coconut reforestation programme in Mexico. He has spoken at many national and international fora and has used his talent in ventriloquism and puppetry to drive home his message. In the United States, he established a Children's Forest for the US Department of Agriculture. His articles and environmental cartoons have been widely circulated.

**Aika Tsubota** (deceased)

Aika was born on November 26, 1979 and passed away on December 27, 1991. For a girl so young, Aika knew more about the environment than other children. She left a lasting legacy with the publication, in several languages, of her book *Secrets of the Earth*. The book tackles many of the problems pertaining to man and nature. Presented as a comic book, *Secrets* was a one-girl project. Aika drew the illustrations, composed the text, organized

the layout and the overall presentation. The book is being used as a textbook in elementary and secondary schools in Japan and its relevance may prove useful in other countries as well.

**Youth Nature Conservationist Centre – WOLVES**

38273 Vyssi Brod 313, CSFR  
Czech Republic

Young Nature Conservationist Centre – WOLVES – activities include environmental education and the organization of outings to “discover nature”, as well as summer and winter camps. The WOLVES participate in natural science and environmental competitions. They take part in projects addressing Amphibians, Bird Protection, Bumble-Bees, the Counting of Buzzards. They also took part in: Ozone and The Blue in the Sky (a project which monitored acid rain). They helped the Environmental Commission in their region by marking the borders of nature reserves and also helped with the maintenance of these protected areas. They have their own tree and shrub nursery where they plant and care for many endangered species. They also organize programmes and lectures for elementary schools on the subject of environmental protection. WOLVES have won the competition *Golden Leaf* several times as well as the *Silver Thread*. They also hold a prestigious prize for young environmentalists. WOLVES has also influenced children in the promotion of a positive outlook towards nature.



## 1994 GLOBAL 500 LAUREATES

### ADULTS

#### **Lorraine Adams**

85 Hull Street  
Oamaru  
New Zealand  
Tel: (64-3) 434 8426  
E-mail: lori penguin <coasthopperotago@yahoo.co.nz>

Ms. Lorraine Adams has played an outstanding role in advancing the cause of conservation and environmental protection in coastal North Otago, New Zealand. Thanks to her efforts local authorities and industry are facing up to their responsibilities. Prior to Ms. Adams making a public issue of the neglected condition of the Oamaru foreshore, this beach has been the site of fouling by sewage and industrial waste from timber plants, abattoirs and freezing-works plants. Ms. Adams' actions raised the anger of civic leaders and on every point raised by her and denied by local authorities, she has been found to be correct. She has been tireless in cleaning litter and debris from the beach and has obtained the support of many schools. Most of the planting along the shoreline has been carried out and substantially financed by her. The colonies of blue penguins have also benefited from her actions, which have improved nesting sites and increased their safety from predators.

#### **Professor Seth Sunday Ajayi**

University of Ibadan  
Ozo's Building  
P. O. Box 20971  
Ibadan  
Nigeria  
Tel: (234-22) 415 868

Professor Ajayi's contributions, nationally and internationally, have enhanced intellectual and scientific approaches to wildlife conservation and training, not only in Nigeria, but throughout Africa. At the national level, Professor Ajayi was team leader of an expert group, which produced the Action Plan for Conservation of all renewable natural resources in Nigeria. He was also project leader at the National Science and Technology Development Agency of a research project on studies dealing with the domestication and control of wildlife species and their importance in food production and public health. He was Chairman of the Publicity Sub-Committee of the National Wildlife Conservation Committee and Chairman of the Committee of Wildlife Specialists on the Development of Lake Kainji National Park and representative on the National Wildlife Conservation Committee at the University of Ibadan. In 1980, while he was a lecturer in the Department of Forest Resources Management at the University, he fought relentlessly for the creation of a separate Department of Wildlife and Fisheries Management and, subsequently, became the pioneer head of the new department (1981 to 1988). As a result,

the Federal and State Governments have given greater attention and support to wildlife conservation in Nigeria.

#### **Dr. Sama Siama Banya**

Office of the President  
State House  
Freetown  
Sierra Leone  
Tel: (232-22) 228 483  
Fax: (232-22) 228 483  
E-mail: cssl@sierratel.sl

Dr. Sama Siama Banya is a classic example of a national figure who has worked hard to promote environmental protection and conservation in his country. From his early professional days as a physician, Dr. Banya was able to see the correlation between a poor environment, sanitation and the health of his people. He has helped combat outbreaks of cholera and for years campaigned for a sanitized environment for the health of all. As cabinet minister and policy maker, he was instrumental in piloting and financing the first three wildlife parks in Sierra Leone. Dr. Banya is a founding member and Honorary President of the Conservation Society of Sierra Leone (CSSL) and Vice-Chairman of the Commonwealth Human Ecology Council. CSSL works with the World Wildlife Fund (WWF), the Royal Society for the Protection of Birds, the Government of Sierra Leone, the World Resources Institute (WRI) and the Jane Goodall Institute in supporting wildlife protection and sustainable development in the country's three national parks and the Gola rainforest. One of Dr. Banya's most recent successful initiatives has been to help create national awareness and to sensitize governors on wildlife conservation when he launched a special wildlife week which was graced by the Head of State and Dr. Jane Goodall.

#### **José Pedro Castro**

25 de Mayo 260 Apto.1  
Tacuarembó 45.000  
Uruguay  
Tel: (598) 32 3064

Mr. José Pedro Castro's contributions to the conservation of the Pampas deer (*Ozotoceros bezoarticus*) is well documented. The deer was once one of the most abundant mammals in Uruguay. As a result of commercial hunting and disease transmitted by livestock, the Pampas deer suffered a dramatic reduction and today is one of the most threatened species in Uruguay. The actual population is approximately 600 to 800, concentrated in two small areas of the country. In 1985, this species was declared a "National Monument" of Uruguay by the Government. The survival of this species is owed, in great part, to the protection given by Mr. Castro. On his farmland survive the majority of the deers – more than 500. He set aside more than 1,200 hectares of his land to assure the survival of this deer without any financial benefit.

**Raffi Cavoukian**

Troutadour Records Ltd.  
1075 Cambie Street  
Vancouver, B.C.  
Canada  
Tel: (604) 682 8698  
Fax: (604) 682 4291

Raffi Cavoukian – known as Raffi to his fans – is an active supporter of the environment who brings joy to children through his songs and performances. He tells of love of other people and of the wonderful creatures with which we share the planet. His *Baby Beluga* is a song, which teaches respect and love for other species. He gave a major donation to the David Suzuki Foundation, which enabled it to get off the ground. His recent record *Evergreen, Everblue* has a very strong environmental message. He has successfully woven his passion and concern for the environment into his performances. His gentle, supportive style has encouraged hundreds of thousands of his young listeners to be more environmentally aware. Raffi has been credited by the music industry for leading the campaign to reduce wasteful packaging of compact discs and cassettes. His current publishing contract calls for his books to be printed on non-chlorine bleached recycled paper with non-toxic, vegetable based inks. In 1992, Raffi was named a UNEP Goodwill Ambassador with special responsibility for youth.

**Jesus Arias Chavez**

A P. 8  
Ozumba  
C.P. 56800 Estado de Mexico  
Mexico  
Tel: (52-5) 546 8827  
Fax: (52-5) 703 0106

Mr. Jesus Arias Chavez, an expert in alternative technologies for 30 years, is a member of the Xochicalli Foundation and an ardent promoter of Mexican non-governmental organizations (NGOs). He is part of Mexico's large ecological movement and has shared his expertise in biotechnology, organic agriculture and environmental monitoring with numerous academic and research institutions. Many of his technological findings have been applied nationally and internationally and his advice on environmental matters is often sought by the federal government and environmentalists in Mexico. His work has been used in more than 50 countries where he has either constructed, designed or planned technologies such as tools, machines, systems, parks, houses, farms and ecological communities.

**Yul Choi**

Korean Action Federation for Environment  
Samick Park Apt. 507-607  
Gildong, Kangdong-ku  
Seoul  
Republic of Korea  
Tel: (822) 735 7000  
Fax: (822) 741 1240

Mr. Yul Choi has played a key role in the environmental movement in Korea. In 1982, he founded Korea's first environmental organization – The Korea Pollution Research Institute. In 1985, he revealed that more than 40,000 people were suffering from pollution caused by the industrial complex in the Onsan area. As a result of a scientific survey, which he undertook, and thanks to the support of NGOs, the Government acted by relocating the people and also offered medical treatment. His achievements include organizing nuclear campaign groups to stop the construction of two nuclear power plants and in 1990 he led

the campaign to protect the greenbelt of forests and nature reserves. He was chief executor of the boycott against the company, Doosan, which illegally spilled the toxic chemical phenol into the river and the Director of the Korean NGO Committee for the Earth Summit in Brazil. He is now Secretary-General of the largest environmental organization, Korea Action Federation for Environment with 60 full time staff, 12,000 members and 11 regional offices.

**The Ghandruk Conservation and Development Committee**

P. O. Ghandruk  
Kaski  
Nepal

The Ghandruk Conservation and Development Committee is a grassroots local organization formed in 1987 under the guidance of the Annapurna Conservation Area Project (ACAP). The Committee comprises local people from Ghandruk village who have knowledge and wisdom of traditional resource management, including forest management. The Committee is also involved in environmentally sound small-scale development activities in order to enhance the quality of life of the local people. The Committee has been working to solve local environmental problems such as deforestation, landslides and pollution from tourism in the Annapurna Sanctuary area. The Committee has brought an innovative approach to conservation with sustainable rural development. In 1992, the Ghandruk Conservation and Development Committee won the J. Paul Getty Wildlife Conservation Prize for its environmental efforts.

**His Royal Highness, The Prince Phillip**

Duke of Edinburgh  
Buckingham Palace  
London SW1A 1AA  
United Kingdom

As President of World Wide Fund for Nature (WWF) International, His Royal Highness, The Prince Phillip, Duke of Edinburgh pioneered an innovative scheme to bring together world religions in the name of conservation. This effort culminated with WWF's 25th Anniversary in Assisi, Italy, where top representatives of the world's major faiths gathered to issue declarations on the environment and to assess what their faiths had to say about nature. This gathering contributed to preserving the environment and promoted goodwill and understanding in an inter-faith context. This initiative helped reach untold millions worldwide with a conservation message through religious channels. His Royal Highness has written a number of books on the environment including *Birds of Britannia* (1962), *Wildlife Crisis* (1970) and *The Environmental Revolution* (a collection of his speeches from 1962 to 1977). His later speeches have been compiled in three other books entitled: *A Question of Balance, Men, Machines and Sacred Cows*, and *Down to Earth*.

**Dr. Karen Eckert**

Wider Caribbean Sea Turtle Conservation Network  
WIDECAST  
17218 Libertad Drive  
San Diego, CA 92127  
United States of America  
Tel: (858) 451 6894  
Fax: (858) 451 6986  
E-mail: widecast@ix.netcom.com

Dr. Karen Eckert is one of the most important figures in conservation and grassroots community empowerment in the fields of endangered species in the Wider Caribbean Region. She is the Executive Director of the Wider Caribbean Sea Turtle

Conservation Network (WIDECAST) which seeks to restore depleted sea turtle species and promote sustainable co-existence between Caribbean peoples and their marine resources. Through Dr. Eckert's efforts WIDECAST seeks to integrate both government and non-government groups in establishing scientifically-sound resource management policies in 36 Caribbean states and territories. Under Dr. Eckert's direction, the project has resulted in a comprehensive series of nationwide Sea Turtle Recovery Action Plans. The WIDECAST model conceived and designed by Dr. Eckert, consists of a regional recovery team of senior sea turtle scientists who volunteer their time and expertise in training local country coordinators. These individuals, in turn, work with residents in defining a national agenda for the recovery of sea turtle stocks. The direct involvement of in-country grassroots networks is the heart and soul of the WIDECAST programme. It educates the local network about marine resource management and creates an advocacy body, which will ensure implementation of the plan. These plans are locally generated and are customized to local needs, culture and regulatory systems.

#### **Paul Ekins**

42 Warriner Gardens  
London SW11 4PU  
United Kingdom  
Tel: (44-207) 498 8180  
Fax: (44-207) 498 8183

Mr. Paul Ekins is founder and director of The Other Economic Summit (TOES) – an international network with groups in most G7 countries – which organizes “economic summits” at the time of the G7 summits, with a focus on strategies for human development, social justice and environmental sustainability. In 1986, Mr. Ekins set up the New Economics Foundation to undertake work on developing a “new economics”. His book *A new World Order: Grassroots Movements for Global Change*, now a recommended text for undergraduate development studies courses, describes within a coherent theoretical framework, a broad range of initiatives and organizations working for a people-centred development process. Other books on sustainability *Wealth Beyond Measure: An Atlas of New Economics* and a companion book *Real Wealth* are the first books on green economics geared specifically for school use. Mr. Ekins' present research interest is the relationship between environmental sustainability, economic growth and international trade. His “Trading off the Future” has been an important input into the debate on GATT and the environment. He is the founder and coordinator of the Living Economy Network, a loose international grouping of 2,000 academics interested in these approaches, a founding member of the Society for the Advancement of Socio-Economics and of the European Association for Evolutionary Political Economy.

#### **Fundacion Peruana para la Conservacion de la Naturaleza**

Apartado 18-1393  
Lima 1  
Peru  
Tel: (51-14) 422 796

Since its inception in 1985, the Peruvian Foundation for the Conservation of Nature (FPCN) has been a leader in conserving biological diversity in Peru. Through agreements with the Peruvian Government, FPCN provides on-site management to nine of Peru's 25 protected areas. These areas make up nearly 85 per cent of the lands currently included in Peru's national system

of protected areas. No other non-governmental organization (NGO) in Latin America manages as many conservation units over such a large geographic area. FPCN has become one of the leading NGOs in Latin America working with pilot projects in sustainable forestry. FPCN is an advisor to the Ministry of Tourism and has played a major role in the establishment of Peru's national trust fund for protected areas. In 1992, FPCN was elected to Chair the Peruvian Network of Environmental Organizations and its school campaign has reached 15,000 students via talks, videos and art concerts. FPCN has been instrumental in drafting a proposed new national forestry law for Peru to be presented to the Peruvian Congress in 1994. FPCN has eight offices, three regional offices, and four field offices with a staff of 105.

#### **Molly R. Gaskin**

42 Sandown Road  
Goodwood Park  
Mt. Cumana  
Trinidad & Tobago  
Tel: (809) 662 4040  
Fax: (809) 658 2513

Ms. Molly Gaskin, as President and founding member of the Pointe-a-Pierre Wild Fowl Trust, successfully lobbied for the restoration of a part of the Mucurapo foreshore wetlands and for the Government of Trinidad and Tobago to accede to the Ramsar Wetland Convention. She is a founding member of the Council for President of Environmental NGOs. She designed and produced the first environmental education books for the country's schools and achieved another first when she brought together the Pointe-e-Pierre Wild Fowl Trust with the Audubon Sanctuary of Alkalia Lake in North Dakota. She has promoted student interest in the environment by organizing natural history competitions, slide lectures and field trips to wetland habitats. She is a member of the Advisory Committee to the Government on wildlife and environmental matters. She is the recipient of the national Humming Bird Gold Medal and of the Rotary Club of Port of Spain Award in recognition of vocational environment services. She is also an accomplished photographer who has had a number of exhibitions on the environment, and who in 1977, put together the first audio-visual environmental education programme in Trinidad and Tobago.

#### **Masazumi Harada**

Kumamoto University  
Nagaminemachi 1780-6  
Kumamoto-shi  
Kumamoto 862  
Japan  
Tel: (81-96) 344 2111  
Fax: (81-96) 364 3554

Professor Masazumi Harada was the first detector of the effect of organic hydrargyrum or Minamata Disease in humans. He has devoted himself to helping victims of the disease and to various environmental issues. He has published a number of books on the issue, including: *Mental and Neurological Disturbances due to Organic Mercury Poisoning During Prenatal Period*; *Minamata Disease, Words and Photography: Carbon Monoxide Poisoning; Epidemiology in Neurology; Organic Mercury Poisoning; Carbondisulfate Poisoning and Mercury Poisoning; Congenital Minamata; Never Ending Minamata Disease; History of Minamata Disease; The End of Minamata Disease Not Yet in Sight.*

**Gustav Harmer**

Ottakringer Brauerei  
Ottakringer Street 91  
A-1160 Vienna  
Austria  
Tel: (43-1) 222 49100

Fax: (43-1) 222 40916/4129

Dr. Gustav Harmer, President of WWF Austria, took over the personal liability for a bank loan, which was then granted to WWF Austria in 1989 to buy land along the Danube to prevent a power plant company from developing the land. Together with Professor Dr. Bernd Lotsch, Austria's most famous conservationist, Dr. Gustav Harmer took over the personal leadership for an unparalleled nature conservation campaign. The campaign "Bail out Nature" had to raise US\$8.5 million. As many persons as possible and groups, including schools and organizations, needed to be contacted. Industrial leaders (sponsorships) and wealthy persons (large donors) were personally contacted by Dr. Gustav Harmer. In the end more than 200,000 Austrians gave donations. This was the first step to actually realize the planned national Park Donau-March-Thaya-Auen, which today is in preparation.

**Sir John Houghton**

Royal Commission on Environmental Pollution  
Robert Hooke Institute  
The Observatory, Clarendon Laboratory  
Parks Road  
Oxford OX1 3PU  
United Kingdom  
Tel: (44-207) 276 2080

Dr. John Houghton is well known internationally for his outstanding research in remote sensing of the atmosphere from space. In cooperation with Professor Desmond Smith, Dr. Houghton developed the selective Chopper Radiometer for the Nimbus 4 and 5 satellites in the early 1970s – an instrument, which sensed remotely the atmospheric temperature structure up to about 50km in altitude. Further developments by the group at Oxford led by Dr. Houghton, namely the Pressure Modulator Radiometer flown on Nimbus 6 in 1975 and the Stratospheric and Mesospheric Sounder flown on Nimbus 7 in 1978, enabled the temperature structure and the distribution of some minor constituents up to about 90km in altitude to be observed. These instruments, for the first time, provided global information on the structure of the stratosphere and mesosphere and have played a large part in enabling more detailed studies of the radiation, dynamics and chemistry of the whole atmosphere to be pursued. Dr. Houghton also cooperated with scientists at the Jet Propulsion Laboratory in developing an instrument for the Pioneer Venus Orbiter. He is the recipient of a number of awards including the Darton Prize (1954), the Buchan Prize (1966), the Symons Gold Medal (1991), the Charles Cree Medal of the Institute of Physics (1979) and the Glazebrook Medal (1990). In 1988, he was appointed as Chairman of the Scientific Assessment Working Group of the Inter-governmental Panel on Climate Change.

**Roelof Hueting**

Roelofsstraat 6  
2596 VN Den Haag  
The Netherlands  
Tel: (31-70) 337 3800  
Fax: (31-70) 387 7429

Mr. Roelof Hueting founded the Department of Environmental Statistics at The Netherlands Central Bureau of Statistics in 1969. The Department produces statistics on the whole field of the environment, including species and resources, both in physical and monetary terms, and attempts to construct alternative national income figures, corrected for environmental losses, alongside the current figures. Roelof Hueting assisted the Dutch Ministers of Health and Environment with their first environmental legislation, introducing "the polluter pays principle". He helped the Dutch eco-movement stop the construction of a polder in the Waddensea, an estuary of international environmental importance, which resulted in the entire polderplan being abandoned. Hueting was co-author of a "realistic alternative scenario" estimating the consequences on the production and employment levels of an economic policy that shifts its priority from production growth to saving the environment and natural resources. His paper *Correcting National Income for Environmental Losses: A Practical Solution for a Theoretical Dilemma* arrives at a method of calculating a Sustainable National Income, aimed at better measuring economic success than the national income, as the latter does not take into consideration the limitations imposed by sustainable use of the environment. Mr. Hueting is currently working on a pilot calculation for a sustainable national income of The Netherlands.

**Joseph Makabuza Kabirizi (deceased)**

c/o Jose Kalpers  
International Gorilla Conservation (IGCP)  
BP 931  
Kigali  
Rwanda  
Fax: (250) 83574

Mr. Joseph Makabuza Kabirizi spent nearly 30 years working with the "Institut Zairois pour la conservation de la nature (IZCN)", before dying tragically on 24 October 1993 as a result of a road accident. He was the IZCN Regional Director for North Kivu, Eastern Zaire. As a warden first, Mr. Makabuza worked in most of the national parks and reserves of Zaire and had acquired outstanding experience in protected area management and conservation. His numerous qualities had enabled him to be appreciated by his colleagues and superiors as well as by the international conservation community. In his last position, he designed and started implementing a new decentralized scheme for IZCN. Given his experience in gorilla conservation, he was nominated as the Zairian national representative for the International Gorilla Conservation Programme.

**Osamu Kobayashi**

Tokyo Electric Power Company  
508, 13-4 Nanpeidai-cho  
Shibuya-ku  
Tokyo 150  
Japan  
Tel: (813) 3501 8111  
Fax: (813) 3504 1570

Mr. Osamu Kobayashi is Director of the Tokyo Electric Power Company (TEPCO), the world's largest private electric utility. In June 1968, he assumed office as the first Manager of Environmental Administration at the Department of the Environment. TEPCO was the first electric utility in Japan to establish such a section to deal with control measures for environmental protection. He has been responsible for TEPCO's promotion of environmental protection for the last 20 years. He has been working to develop and introduce innovative technologies such as: high grade electrostatic precipitators, flue gas desulphurization and denitrification technologies. With the belief that the electric power company should fulfil its social responsibilities as a public utility corporation, he contributed to the decision, by top management, to introduce the use of LNG, making TEPCO the world's first electric utility to use such a low-polluting fuel for power generation. Thanks to his commitment, TEPCO has had tremendous influence over the consolidation and improvement of environmental protection measures taken by other electric power companies. Mr. Kobayashi has taken the lead in concluding voluntary agreements with local governments on pollution control on thermal power plants. These agreements provide environmental standards that are far more stringent than those required by Japan's national laws and ordinances.

**Marie-Paul Labey**

c/o Esther Peter-Davis  
7 rue Goethe  
F-67000 Strasbourg  
France  
Tel: (33) 8860 1619  
Fax: (33) 8861 0712

Ms. Marie-Paul Labey is known in France for the role she has played in combatting asbestos-pollution in drinking water. An extensive campaign which she developed resulted in no less than 10 legal texts on the recognition of asbestos-linked occupational diseases, toxic waste management, labelling of products and the prohibition to use flaked asbestos as building material for residential units. In 1982, Ms. Labey set up GRAPE, a federation of 47 environmental NGOs. From 1983 to 1989, she represented environmental NGOs and chaired the Rural Planning Commission and her reports on the loss of agricultural land and the development of a regional waste management policy initiated important action. The need to protect the environment and the high unemployment rate in lower Normandy, France, led Ms. Labey to set up *Rivieres et Bocages* (R & B), a non-profit body which uses Government employment measures to restore and protect both the natural and built environment. She initiated vocational training courses and devised a scheme providing municipalities with planning and maintenance staff. The courses draw people from many regions and were awarded a prize by the Fondation de France. Over 150 people are now employed by R & B which in 1993, launched a pilot project for sustainable development and set up a job-creation workshop in the industrial zone of Vire. For her outstanding work, Ms. Labey was awarded the "Merite de l'Ordre Agricole."

**Lillehammer Olympic Organizing Committee and**

Project for an Environment-Friendly Olympics  
P. O. Box 106  
N-2601 Lillehammer  
Norway  
Tel: (47-62) 6107 1741  
Fax: (47-62) 6107 1329  
E-mail: olav.myrholt@ioc.olympic.org

The Lillehammer Olympic Committee and the Project for an Environment-Friendly Olympics set an environmental standard, which was conspicuously absent in previous Olympics and which will undoubtedly set a precedent. The Project for an Environment-Friendly Olympics, comprising mainly NGOs, originally opposed the games in Lillehammer for environmental reasons, however, they decided to work with the Olympic Committee to ensure that most of the venues as well as transportation plans were designed to cause as little ecological damage as possible. Authorities used various economic instruments to ensure a green approach. For example, fines were levied for the number of trees felled. In addition, an ice rink was built inside a mountain so as to save energy for heating; battery-powered ice machines were used instead of propane gas-fuelled ones so as to keep the bobsled track cold; and the bobsled course was designed to blend in with the forest on the fringes of the mountains outside Lillehammer. Many of the structures in the Olympic village can be disassembled and rebuilt as housing in other parts of Norway. The plates, utensils and cups, used by food vendors, were also designed with the environment in mind, as they were made from a material which could be fed to livestock once they had been used. Hotels and other facilities were built so as to mix with the decor of the village and all vehicles were banned from Lillehammer during the games.

**Nikita Nikolaevich Moiseev**

16/11 Leminsky Prospekt. Apt. 172  
Moscow  
Russian Federation  
Tel: (7095) 476 4071  
Fax: (7095) 306 6689

Mr. N. N. Moiseev is a scientist in the field of environmental protection as well as education. Under his leadership the first mathematical pattern of the biosphere was developed. He also developed the Nuclear Winter Hypothesis, which forced nuclear States to stop nuclear tests and the use of nuclear weapons in order to save the biosphere. He is a member of the Russian Academy of Sciences, whose spectrum of interests and activities brought him from computing military missile trajectories to mathematical modelling of the pernicious effects of a large scale nuclear war, to his current involvement in environmental activities aimed at protecting future generations. He organized the Russian Section of Green Cross International and became its first President. In 1992, he was one of the initiators of the establishment of the International Independent University of Ecology in Moscow, which promotes environmental awareness possibly making it the first non-governmental humanitarian university in the world.

**Garth Owen-Smith and Margaret Jacobsohn**

IRDNC  
 Kenya House  
 Robert Mugabe Avenue  
 Windhoek  
 Namibia  
 Tel: (264-61) 228 506  
 E-mail: mjacobsn@iafrica.com.na

In a remote corner of Kunene Province in North-western Namibia, Garth Owen-Smith and Margaret Jacobsohn have been working quietly to link wildlife conservation with the needs of the local Himba, Herero and other peoples. Owen-Smith's and Jacobsohn's 20 years in the field have resulted in an auxiliary game guard system using local communities to manage and protect the wildlife. The system, in operation since 1982, is an example of conservation extension in practice. The approach has pioneered what is known as community-based conservation in Namibia. Their work has resulted in the protection of the last population of desert-adapted black rhino and elephant. Since Namibia's independence, a challenging new dimension has been added to their work. This is the development of a national community-based conservation programme by the newly formed Ministry of Wildlife, Conservation and Tourism, patterned after the field successes of their earlier work. The result is a national programme aimed at designing natural resource and land-use plans with local communities, not for them. This is now becoming a model for communities throughout Africa. For their 20 years in the field, Owen-Smith and Jacobsohn won the 1993 Goldman Prize awarded to grassroots environmentalists from the six inhabited continents.

**Gonzalo Palomino**

Grupo Ecologico  
 Universidad del Tolima  
 Apartado Aereo 1013  
 Ibague, Tolima  
 Colombia  
 Tel: (57-982) 633 864  
 Fax: (57-982) 644 869

Mr. Gonzalo Palomino pioneered the environmental movement in Colombia. The Ecological Group of the University of Tolima, which he coordinated, began 20 years ago, and since then he has encouraged, inspired, and trained many people who are now committed to protecting the environment. The Network of Natural Reserves of the Civil Society of Colombia which currently represents 54 private natural reserves and around 15,000 hectares of forest dedicated to conservation, environmental education and sustainable development is a strong supporter of Mr. Palomino's activities.

**Nicanor Perlas**

110 Scout Rallas Street  
 Quezon City  
 Philippines  
 Tel: (63) 993 982  
 Fax: (63) 997 608

Mr. Nicanor Perlas successfully solved problems of growing food without pesticides. His approach not only increased yields and net incomes but also alleviated poverty. Perlas pioneered a method,

which is a variation of the bio-dynamic and ecological agriculture approach while incorporating the best in indigenous farming practices. His method is currently the basis for the country's two largest examples of sustainable agriculture. In Davao del sur, 800 acres of sustainable rice farming have seen the net income of farmers increase by 200 per cent without any use of pesticides. Perlas succeeded in focusing national attention and action on the hidden practice of using pesticides already banned or restricted in other countries. Twice he galvanized public and Government action resulting in the banning of eight highly hazardous pesticides. He also succeeded in convincing the Government to initiate policy reforms to reduce and phase out pesticides in farming. He pioneered the concept of seven dimensions of sustainability: economic viability, social justice and equity, cultural pluralism, holistic science, appropriate technology and human capacities and spirituality. These dimensions are now part of the national sustainable agriculture coalition.

**Richard Evans Schultes**

78 Larchmont Road  
 Massachusetts 02176-2906  
 United States of America  
 Fax: (617) 665 0601

Professor Richard Evans Schultes embarked on an active life of Amazonian exploration. So involved was he in the region that a huge part of that unique region was named after him a few years ago. He has written a number of publications, including *Economic Botany of the Kiowa Indians*; *Plants and Human Affairs*; *The Botany and Chemistry of Hallucinogens*; *El Reino de los Dioses* and *The Healing Forest*. He has been a contributing author to the *Encyclopedia of Biological Sciences*, *Encyclopedia Britannica* and the *Encyclopedia of Biochemistry*. Professor Schultes is the recipient of a number of awards including Colombia's Order of Victoria Regia (1969); the Cross of Boyaca (1983) and the WWF Gold Medal (1984).

**Josef Tamir**

4 Uri Street  
 Tel Aviv  
 Israel  
 Tel: (972-3) 223 785

Mr. Tamir has been a journalist, a politician, a diplomat and more recently head of Israel's umbrella NGO "Life and Environment" which brings together all the non-governmental environmental groups in Israel. As a senior statesman of the environmental movement, Mr. Tamir's contributions and role in Israeli environmentalism is important both historically and in the context of the present efforts being made in the environmental movement. He is the author of *The Environment – One Universe*. He has received a number of awards, including: First Prize from the Ministry of the Interior, for significant achievements in the quality of the environment (1977); the Council of Beautiful Israel Award to "Israel's Quality of Life and Environment Pioneer and Champion" (1979); Quality of Life Award of the Knesset Speaker (for elevating environmental issues to the forefront of the Knesset agenda as well as of local authorities and public institutions) (1983). He organized the opposition, which prevented the building of hotels on the sea front, which would obstruct sea-breezes in the direction of Tel Aviv's interior.

**The Chosun Ilbo**

61 Taepyong-Ro 1Ga  
Joong-Gu  
Seoul  
Republic of Korea  
Tel: (822) 724 5114  
Fax: (822) 724 6619

The *Chosun Ilbo* is the oldest, and most widely circulated newspaper in Korea. Through a series of articles this publication shed light on waste pollution and methods for its reduction and instilled in the public that they too can make viable contributions, through practical adjustments in their everyday lives. The *Chosun Ilbo* produced and distributed paper bags for recycling newspapers in 28 cities. By the end of 1992, 11 million paper bags had been distributed and were effectively used, with 2.2 million copies of newspaper not going to waste everyday. A recycling headquarters was established by July 1992. The *Chosun Ilbo* produced two guidebooks on waste: *Waste not to be thrown away* and *Let's Learn About Waste*, aimed at educating the public. They also developed the "Let's Pitch in the Waste Reducing Campaign" which drew the participation of the Republic's President. They organized and sponsored the International Symposium on Solid Waste Recycling Technology and hosted environmental cultural events including an environmental music concert in October 1992, using the slogan Don't Waste Wastes. A number of popular musical groups and personalities performed with the aim of spreading environmental awareness. They launched and hosted a 14 km bicycle riding campaign in cooperation with the Korean Olympic Cycling Committee at the Olympic Stadium in which 1,500 people participated. The *Chosun Ilbo* received the Medal of Merit from the Korean Government and the International Olympic Committee Environment Trophy.

**Brenda and Robert Vale**

2 Nottingham Road  
Southwell, Notts. NG25 0LF  
United Kingdom  
Tel: (44-602) 513 164  
Fax: (44-602) 513 159

Brenda and Robert Vale, both architects and lecturers, have shown an outstanding commitment to a sustainable lifestyle. They are at the leading edge of developing houses and buildings, which have minimal impact on the environment. They have developed and moved into the "Autonomous House", which collects and purifies rainwater for drinking and washing; uses a composting toilet for waste treatments; needs no central heating because of the very high insulation standards; and generates its annual demand for electricity by using solar energy. This house is practical evidence of the Vales' commitment and in 1992, they were awarded the first "Green Building of the Year Award".

**Bernadette Vallely**

Women's Environmental Network (WEN)  
59B Forburg Road  
London N16 6JA  
United Kingdom  
Tel: (44-207) 354 8823  
Fax: (44-207) 354 0464

Ms. Bernadette Vallely, Founder and Director of the Women's Environmental Network (WEN) has been instrumental in linking environmental problems with practical women's action in the fields of consumer information and health. She set up the organization with her own money and worked without a salary for

three years. The organization is one of Britain's leading environmental pressure groups. WEN has over 200 affiliated organizations, representing a network of over five million women, local activist groups and over 3,000 individual supporters. Campaigns have included chlorine-free paper, chocolate and pesticides, minimum packaging, eco-labelling, dioxins and chlorine, tampon safety and boreal and temperate forest protection. WEN's first campaign successfully persuaded companies to stop using chlorine bleached paper in a number of consumer products including sanitary protection, disposable nappies, office paper, coffee filters, magazines and art paper. Awards received by Bernadette Vallely include the British Environment Media Award: Campaign of the Year (1993); Ethical Consumer Award for Best Consumer Campaign (1993); Cosmopolitan Award for Young Women Achievers (1991); UNIFEM/Women and Environment, Partners in Life Success Story (1991) and the Prima Green Award for best environmental organization (1990). She has also written and contributed to many books on the environment.

**Leonie Vejjajiva**

Wildlife Rescue Foundation of Thailand  
235 Sukhumvit 31  
Bangkok 10110  
Thailand  
Tel: (662) 258 5560  
Fax: (662) 261 0925  
E-mail: war@war-thai.org

Ms. Leonie Vejjajiva is Founder and President of the non-profit Wildlife Rescue Foundation of Thailand. She operates a sanctuary for primates rescued from abusive situations or confiscated by Thai wildlife authorities. She cares for at least 60 primates, most of them endangered gibbons. Her work is extremely stressful because of the appalling condition in which animals are brought to her. She is now working with Thai wildlife authorities to establish a sanctuary on Government land outside Bangkok. She is constantly working to educate the Thai people and foreign residents not to buy wildlife for use as pets. One of Mrs. Vejjajiva's most remarkable accomplishments was her role in the famous "Bangkok Six" case. This case involved six baby orangutans confiscated at Bangkok Airport on 30 February 1990. The animals were sent to Mrs. Vejjajiva for care. It was learned that the person responsible was an animal smuggler residing in Bangkok who had been involved in illegal trafficking for 10 years, mainly in Australian birds. Mrs. Vejjajiva contacted him and obtained a great deal of detail about the story, which confirmed the involvement of another smuggler who was later indicted. Mrs. Vejjajiva agreed to come to Miami to testify against this smuggler despite threats.

**Dr. Edgar Wayburn**

The Carlisle 1450 Post Street  
Apartment 1008  
San Francisco, CA 94109  
United States of America  
Tel: (415) 673-3591/977-5579  
Fax: (415) 977 5799  
E-mail: EdgarWayburn@aol.com

Dr. Edgar Wayburn, is a Sierra Club volunteer who in the course of 50 years of environmental work has saved 106,271,000 acres of public protected land. At 87 years of age, he is still active in nature conservation through his role as Chairman of the International Committee of the Sierra Club and as Honorary President of the Sierra Club. He was instrumental in establishing

the Redwood National Park through his personal relationship with key national legislators and agency staff and he drafted documents and prepared and gave testimony at Government hearings. His campaign to establish the Golden Gate National Recreation Area in California were similar to his efforts for the Redwoods. His involvement in Alaska is even more phenomenal. He and his wife tramped and canoed much of the areas and again his ability to mobilize national action was decisive. It was he who approached the Sierra Club Board to take on the issue of identifying wild areas in Alaska for protected status. He was very much involved in structuring the coalition of environmental groups, which planned the political strategy to bring about success. His dedication to the protection of the wild is unmatched.

**Zhongwei Gusha Forestry Farm**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

Natural conditions are bad in the Zhongwei Gusha Forestry Farm region, with annual rainfall of 80 mm accompanied by yearly evaporation of about 3,000 mm. Founded in 1957 the farm is responsible for dune-fixing and for defending China's first desert line. Over the past three decades 67.38 million seedlings have been grown; 55.12 million trees planted; 680,000 acres of land covered with grass hedges; and orchards built on 1,130 acres. These have formed an 800-metre-wide green protective screen on either side of the 55-km Zhongwei-Gantang rail line. The number of windy and dusty days in a year have been reduced from 330 to 122. The above measures have effectively protected cultivated land and provided 280,000 acres of fertile farmland. In addition, biological varieties increase daily. There are now 147 kinds of animals and 260 plant species that thrive in the forests. The region encompasses 12 kinds of wild creatures and 453 species of plants. The farm yields output worth 100 million yuan a year. The farm has won several awards including a special National Scientific Progress Prize.

## YOUTH

### Zulekha Ali (deceased)

On 14 August 1993, Zulekha Ali, a young journalist who had made a name for herself in environmental journalism in a short career spanning just one year, lost her life to the waves while saving another girl from drowning. She did a series of investigative environmental stories for her newspaper, *The News*, and almost everything she wrote triggered action because she followed up. Last July, the local town committee decided to turn the only children's park in the area into a maternity home, despite the fact that there were already several homes there. Zulekha did a story on the conversion mobilizing the community who took the matter to court. A stay order was obtained and the park was saved. Last summer a dozen people drowned in the sea while celebrating the festival of Eid. The cause? Illegal sand excavations and inadequate beach safety. Zulekha Ali highlighted this issue and as result Section 144 was imposed in the area prohibiting sand excavation. Last May, a lethal chemical used in the dyeing industry was dumped along Lyari River, causing the death of two people. Zulekha followed the trail of the chemical and discovered that about 1,460 drums of the same chemical were stored in the customs warehouse. Zulekha's investigation revealed that a large number of chemicals were still dumped. This report resulted in the involvement of environmental agencies and thanks to her efforts toxic chemicals are no longer treated in the same passive way.

### CenterStage Children's Theatre Troupe

1289 Bartlein Court  
Menasha, WI 54952  
United States of America  
Tel: (414) 738 9692/(800) 553 4058  
Fax: (414) 749 1829

The CenterStage Children's Theatre Troupe is a group of young performers, aged eight to 20, who take their original musicals to schools, communities and conventions and represents 20 school districts from Wisconsin. Their flagship musical, *To Save the Planet*, is about the global environment and has been performed 115 times for over 43,000 people. It is inter-generational and illustrates the consequences of our actions on the environment. The members have become ambassadors for the environment and have joined forces with the Children's Alliance for Protection of the Environment (CAPE). They work in separate schools to organize environmental clubs and CAPE chapters. They help to clean up neighbourhoods, recycle and conserve. The American Library Association's Book list reviewed the cast album and said it was "a thoroughly professional, polished performance". And Wisconsin's Governor said *To Save the Planet* is a shining example of the type of work that must be done today to ensure our happiness and livelihood tomorrow". By selling the script to schools, hundreds of kids across the United States of America have been able to put on the musical themselves. It has been performed abroad by schools in Mexico, Taiwan and Peru.

### Fundacion Ecologica Arcoiris

Olmedo 09-84 y Riofrio  
P. O. Box 1701860  
Loja  
Ecuador  
Tel: (593) 757 2926  
Fax: (593) 757 2926

Fundacion Ecologica Arcoiris, an ecological NGO in southern Ecuador, focuses on the protection of the Podocarpus National Park. Founded in 1989 by a group of university students, it has grown into an important regional organization, made up of volunteers, students and interested persons whose activities range from environmental education to scientific investigation to lobbying and public awareness. One of their first actions was education in schools and universities (a transition which continues) through lectures, conferences and field trips. They also make scientific investigations of the plant and animal life of the Park. In 1992, they completed a study of the threatened Mountain Tapir and of the Romerillo, the only native conifer of Ecuador. They also monitor bird species. One of the major threats to the Park is mining and logging which Arcoiris is trying to keep out. In 1993, they succeeded in pressuring a Norwegian mining company to leave the Park. They were also able to stop two proposed roads that would have opened the Park to further destruction from mining and logging. In March 1993, Arcoiris won a long court battle that mandates the Ministry of Agriculture to stop granting mining contracts within the Park.

### Omar Castillo Gallegos

Yacatas No. 99 Departamento 5  
C.P. 03020 Colonia Narvarte  
Mexico  
Tel: (525) 538 7075

When only eight years old, Omar Castillo, mobilized public opinion in Mexico after watching a TV programme on the destruction of the rainforests in the province of Chiapas. In 1985, he convinced his father to walk more than 1,000 km to these forests. After this experience and based on what he learned from the indigenous people, he decided to return to Mexico City and walk seven days and six nights around the Central Plaza until the President agreed to see him. When the President accepted, Omar asked him to save the forests and the Lacandones Indians. In January 1986, he gathered more than 5,000 children in Cancun in a campaign to save Lake Nichupte. That same year, he met the Secretary of Public Education and asked him to include Ecology in all free school books – a request, which became a reality. In July 1986, he bicycled to nine Mexican states to raise awareness of the pollution of the seas, rivers and lakes. He has also organized clean-up campaigns for children and a food aid campaign to save the Tarhumaras Indians. His activities have earned him worldwide attention and international media coverage.

### Kids for Coral

c/o Janette Deagle  
911 Marine Drive #197  
Tumon Bay, GU 96911  
Guam  
Tel: (671) 646 5626  
Fax: (671) 649 1055

Kids for Coral, began four years ago on the Island of Guam, it was designed as a year-long project for seventh graders, however, due to the members' enthusiasm and a feeling that there was still much

to be done, the project has continued. Kids for Coral now boasts a membership of 125, comprising students from grades seven to twelve. When Kids for Coral was formed, Guam was undergoing tremendous growth. Erosion at construction sites resulted in sediment washing into the oceans and suffocating coral reefs. In some areas, up to 90 per cent of the reefs were damaged or destroyed. Poaching, sewage outfall, overfishing and harvesting of live coral also contributed to reef destruction. The goal of Kids for Coral has been to promote awareness of this issue and of the importance of preserving coral reefs. Highlights of their achievements include: Reef Motif art show at Guam's art gallery; beach clean-ups; window displays on reefs; articles in newspapers; testimony at hearings against an underwater observatory; save the reef week; island-wide essay contest; presentations at public and private schools; fundraising; publication of newsletter *Reef Briefs*; radio and TV talk shows; and conferences for 350 middle school students on the subject.

#### **The Municipal Ecologic Brigade**

c/o Irena Alcaldes  
P. O. Box 5123  
Managua  
Nicaragua  
Tel: (505-2) 31868  
Fax: (505-2) 31274

The Municipal Ecologic Brigade was founded in 1992 as a youth movement for young people between the ages of six and 18. Their focus is environmental awareness. It has more than 4,000 members and operates throughout Nicaragua. In collaboration with local authorities, they coordinate environmental activities such as seed collection, creation of tree nurseries, waste disposal, clean-up campaigns and reforestation. This Brigade represents the fastest growing civic movements in Nicaragua and their motto is: "For our Future we are the Brigades".

## 1995 GLOBAL 500 LAUREATES

### ADULTS

#### Father Balemans

P. O. Box 6486  
Ouagadougou 01  
Burkina Faso  
Tel: (226) 45 72 86

Father Balemans, a priest from The Netherlands has made Burkina Faso his home. He has devoted his life to spreading the message of sustainable development and more specifically to the struggle against desertification. Having founded the "Association pour le Développement de la Région de Kaya", he has taught rural communities to care for and nurture their environment. From natural resource management to sound agricultural practices and rational breeding methods, scores of villagers have benefited from Father Balemans' guidance and have subsequently learned "to help themselves". Twenty-five villages have successfully implemented Father Balemans' scheme, which was recognized as a model of its kind by a Government Decree in September 1994.

#### The Bangkok Post

Bangkok Post Building  
136 Na Ranong Road, Off Sunthorn Kosa Road  
Klong Toey  
Bangkok 10110  
Thailand  
Tel: (662) 240 3700  
Fax: (662) 240 3666

In 1992, the *Bangkok Post* held an Environmental Awareness Campaign, in which 21 of Thailand's leading advertising agencies were asked to come up with an eye-catching environmental message in the form of a full page advertisement, which the newspaper ran for several months free of charge. That same year, the *Bangkok Post* launched a tree planting project in Hyay Kha Kaeng Wildlife Sanctuary, in which a percentage of every long-term subscription to the newspaper was given to the Rajapruck Foundation for the purchase of tree saplings. From September 1992 until the project ended in August 1993, the Post gave more than US\$100,000 for the purchase of 35,000 saplings, which were planted in the buffer zone of the sanctuary. The *Bangkok Post's* promotion of environmental awareness, however, dates back long before that. In 1981, when environmental problems in the minds of most readers were synonymous only with pollution, it started a "Nature Notebook" column covering environmental issues such as deforestation, desertification, hazardous wastes, population growth, disappearing flora and fauna, genetic diversity and pollution. The column was phased out in early 1993, but by then several Post reporters were regularly writing about the environment. To date, their reports on environmental problems and in-depth coverage of environmental issues and concerns can be read on a regular basis, not only on the news pages, but in other sections of the paper such as Business, Outlook, Horizons and Perspective, making the *Bangkok Post* the leading newspaper dealing with the environment not only in Thailand but in the Southeast Asian region. For its environmental awareness campaign, the *Bangkok Post* was awarded the first prize in community promotions at the Annual Marketing Newspaper Association Conference in Australia in 1993 and the Social Responsibility Marketing Award from the Ninth Thailand Marketing Awards later that same year.

#### Marti Boada

Olzinelles, 6  
08470 St. Celoni  
Catalonia, Barcelona  
Spain  
Tel: (3493) 867 3298  
Fax: (3493) 518 3331  
E-mail: martiboada@wanadoo.es

Forty-six-year-old Marti Boada of Barcelona, Spain has been involved in environmental education initiatives for more than two decades. He established Spain's first school of natural history, which he directed for 12 years, and has founded eight non-governmental organizations: the Committee for the Protection of the Mountains of Montseny; the League for the Defense of the Natural Heritage; the Group for the Study and Documentation of Montseny-Montnegre; the Group for the Defense of the Emporda Wetlands; the Catalan Society for Environmental Education; the Valles Centre for Studies of Mediterranean Ecosystems; the Group for the Defense of the River Ter; and the Catalan Society of the History of Science and Technology. He is a member of several other environmental institutions including the Institute of Andorran Studies Catalan where he heads the environmental section and the Institute of Natural History of which he is a committee member. Boada's written work is extensive with more than 30 books concerning mankind and the environment, 22 textbooks for students and teachers and more than 150 articles. He has also produced posters, videos and exhibitions to raise environmental awareness.

#### Bernardo P. Ferraz

National Environment Commission (NEC)  
P.O. Box 2020  
Maputo  
Mozambique  
Tel: (258) 465843/48/51  
E-mail: micao@ambinet.eum.mz  
Ferraz@ambinet.ue.mz

Dr. Ferraz's involvement in environmental issues stems from the time he was employed as physical planner at the Governor's Office in the State of Massachusetts, U.S.A. After returning to Mozambique, he worked in rural areas for several years spreading the concept of local community participation in the decision-making process. This was a challenging decision for Dr. Ferraz to make as Mozambique lacked qualified people such as himself and he could have chosen a comfortable town life. After resigning from his appointment as Director of the State Marketing Board in 1982, Dr. Ferraz joined the National Institute for Physical Planning in order to raise environmental awareness in the country and eventually set up a Government Agency to take charge of environmental issues. It is worth mentioning that Dr. Ferraz worked alone, teaching and mobilizing people interested in environmental issues from 1982 to 1986 when an environmental unit was at last established within the Institute of Physical Planning. His key strengths are awareness building, community empowerment and strong advocacy of sustainable development. According to some of his compatriots, "talking about environment in Mozambique means referring to Dr. Ferraz's achievements".

**Robert John Filmer**

P. O. Box 1377  
Roosevelt Park 2129  
Republic of South Africa  
Tel: (27 11) 477 3676  
Fax: (27 11) 477 3675  
E-mail: Rob@Eco-Access.Org

Robert Filmer is an enthusiastic and dedicated nature conservationist who has made a considerable contribution towards making nature more accessible to other people. However, unlike most other conservationists, Robert is disabled. He is a diabetic with renal failure and has lost his eyesight. Losing his sight has made Robert acutely aware of the inaccessibility of the natural environment to handicapped people. He believes that facilities for the disabled or the blind to experience nature first-hand are essential in order to enrich their lives and to spread an awareness of nature conservation. Convinced that there is a dire need for a national strategy to research and disseminate information, he set about working towards this goal with everything within his power. Robert organized and participated in two camps for blind people and he initiated a fully accessible 180-metre trail for the blind and handicapped. Furthermore, he has written articles about ecotourism for the disabled and has given various radio talks on the subject. He has also written a report on environmental education and the disabled. Robert Filmer is a brave and resourceful young man who has not allowed his disability to stand in the way of his goals. While overcoming great physical disabilities, or perhaps because of them, Robert has put other people's education about the natural world at the forefront of his endeavours.

**Janis and Bob Jones**

Lighthouse Road  
R.D.2, Palmerston  
Otago  
New Zealand  
Tel: (64 03) 439 4653

In 1980, Janis and Bob Jones purchased a house at the Moeraki Lighthouse in New Zealand. Their home soon became a sea bird hospital where distressed and injured birds were nursed, cared for, fed and released. Over the past decade, hundreds of yellow-eyed and little blue penguins have passed through the lighthouse sanctuary. The couple's work has been most influential in exposing the predicament of the world's rarest penguin, the yellow-eyed. Janis and Bob have also planted out areas in coastal shrubs to provide nesting sites for the birds. The couple face many uphill battles with different authorities and a nearby land owner. They have started a trapping programme for penguin predators although they realize that the penguins' worst enemy is man. Concurrently, Janis and Bob play an advocacy role, visiting schools and talking to community groups. Many clubs and individuals in the area have started raising funds for plants, fencing, food and drugs for the couple's project.

**M. Krishnan**

52 Dr. Radha Krishnan Road  
600004 Madras - 4  
India

For Madhaviah Krishnan, 82, the preservation of nature has always been an overriding passion. Since 1949, he has made his living variously as an artist, writer, naturalist, and nature photographer. Madhaviah Krishnan's fortnightly nature column "Country Notebook", published in India's premier newspaper, *The Statesman*, is perhaps the longest running personal column in the

history of the Indian Press. It has run without a break for the last 45 years. Through this column, Mr. Krishnan has tried to stimulate the interest of ordinary citizens in India's unique heritage of plant and animal life. He has tried to instill in the younger generation a love for nature while at the same time telling them that preservation is not the duty of the Government alone but is theirs too. He was awarded the Jawaharlal Nehru Fellowship in 1968 for an ecological survey of larger mammals in India. He has been a member of diverse Central and State Government Committees on Wildlife. He has published books on India's flora and fauna, including a survey of India's wildlife for the Bombay Natural History Society. He has also undertaken field surveys on wildlife for the Central Government.

**Tamas Lantos**

The Ormansag Foundation  
Istvan u.52, H-7625 Pecs  
Hungary  
Tel: (36 72) 317 255  
Fax: (36 72) 317 255

Just five years ago, in the tiny region of Ormansag, Hungary, bordering Croatia, Tamas Lantos used his background in agricultural engineering and sociology and his love for the land to found the Ormansag Foundation. A non-governmental organization, the Foundation promotes sustainable development projects in the area involving local populations at all stages of planning and implementation. Today, as the Foundation's President, Lantos leads six permanent staff and a team of volunteers in projects concerning organic farming, water resource protection and the preservation of the area's natural and cultural heritage. Through the Organic Agriculture Reference Programme, the Foundation operates a school farm and provides training and equipment to local farmers. This project helps local farms compete in the marketplace using conventional methods. The Foundation is also introducing pollution prevention technologies and setting up a transborder nature park along the banks of the Drava River which will encompass 46 villages scattered between pastures and wetlands. To encourage the preservation of Ormansag's cultural heritage, Lantos has directed the Foundation in its work with the local Gypsy population to enlist their support in sustainable development. Projects have included courses in traditional Gypsy crafts and organic gardening as well as cultural exchanges with Gypsy populations living abroad. In 1993 the Foundation was awarded the Hungarian Prize for Regional Action.

**Anna and Livio Michelini**

Rua Bosque das Mangueiras, 51  
Ondina  
40213-120 Salvador (BA)  
Brazil  
Tel: (55 71) 247 9737  
Fax: (55 71) 245 5064

Ten years ago, Anna Conigliaro Michelini, a sociologist, and her husband, Livio Michelini, a physicist, visited Brazil's Pontificia Universidade Catolica de Minas Gerais as lecturers. The ties they made then inspired them - working with the non-governmental organization International Service Volunteers' Association - to launch the Environmental and Social Rehabilitation Programme for Informal Settlements (Favelas). Under their leadership, Favelas involved the university, federal public agencies, state and local governments, and people living in impoverished human settlements (slums) in a project that raised living conditions in seven cities. It began in Belo Horizonte where citizens lived in sub-human conditions lacking proper health care, housing, sanitation, education, employment and human rights. The situation

highlighted environmental problems - deforestation, soil erosion, flooding increasing landslide risks, massive pollution from lack of sewer systems, potable water, and solid waste disposal services. To combat these problems, the Michelinis worked with Brazilians to develop appropriate sanitation technologies and land planning activities while working to change land tenure legislation. The introduction of urban services - water, sewerage, electricity, roads, public transportation, telephones, schools, and health - followed. The project was duplicated in other cities. In 1988, they won the II International Technology for Development Prize.

#### **George Monbiot**

Amazonia, 8 Eaton Close  
Broughton, Chester CH4 0RF  
United Kingdom  
Tel: (44 1865) 724 360  
Fax: (44 1865) 437 896  
E-mail: g.monbiot@zetnet.co.uk

George Monbiot is an investigative journalist who has been researching, naming and exposing the perpetrators of environmental destruction and abuses of indigenous peoples' rights. From 1985, he produced Britain's first investigative environmental programmes for the BBC Natural History Unit. His broadcasts (in particular those exposing the shipping agents who deliberately scuppered a bulk carrier off the Irish Coast, causing a local environmental catastrophe and reports tracing a chimpanzee smuggling network back to the head of customs in Abidjan, Cote d'Ivoire) precipitated major news stories. George Monbiot uncovered a tiger skin smuggling network operating between Indonesia and Singapore. He wrote "Poisoned Arrows", in which he thoroughly investigated the destruction of rainforest and wetland habitats and the dispossession of indigenous people in Irian Jaya (which with Papua once formed the island of New Guinea). His erudite description of the various tribes and their beliefs was acclaimed by critics. He worked in the Brazilian Amazon and exposed the landlords expelling peasants. He also denounced the illegal trade in mahogany between Brazil and Britain tracing timber cut in indigenous reserves to the furniture restoration department of Buckingham Palace. As a consequence the Royal Family pledged in 1994 that it would only use tropical wood from sustainable sources. With his book *Amazon Watershed*, which won the Sir Peter Kent Award for conservation writing, his report "Mahogany is Murder" and the documentary film "Your Furniture, Their Lives", he launched an international campaign against the illegal mahogany trade, now adopted by over 120 environmental groups, leading to a 55 per cent reduction of mahogany sales in Britain. He also founded the Forest Network to coordinate the advocacy campaign. His commitment to the protection of the environment went as far as taking personal risks. More than once, George Monbiot was captured by gunmen and beaten up by security guards, left with facial injuries and broken bones. Monbiot is also the author of a book on East Africa's environment entitled *No Man's Land*.

#### **Ricardo A. Navarro**

33 Calle Poniente 316  
San Salvador  
El Salvador  
Tel: (503) 2 256 746  
Fax: (503) 2 266 903  
E-mail: foeichair@navegante.com.sv

Ricardo Navarro is a mechanical engineer by profession. In the 1970s while he was a professor at the State University in San Salvador, he organized three international Congresses: "Efficient Use of Natural Resources," "Appropriate Technology for

Developing Countries" and "Basic Needs and Technology." Due to this, the engineering community of El Salvador became involved in ecological and social issues in the country for the first time. In 1980, Navarro founded the Salvadorian Centre for Appropriate Technology (CESTA). While in political exile, Navarro continued to work for the welfare of his people. He conducted an investigation into the use of bicycles as an alternative transport medium. The bicycles made from used parts provided jobs and an energy-friendly transportation mode. Upon his return to El Salvador, he influenced peoples' attitudes towards their environment encouraging more direct participation in environmental matters. Navarro was one of the main contributors to the action plan for the National Ecological Recovery of El Salvador (the "Cerro Verde" proposal). A timely plan as the country had a war-torn abused environment. Through CESTA, and in cooperation with Salvadorian ecologists and environmental organizations, Navarro was able to save ecologically important areas from destruction and hazardous industrial development. He also prevented toxic waste dumping.

#### **Her Majesty Queen Noor**

Office of Her Majesty Queen Noor  
Bab Al Salam Palace  
Amman, Jordan  
Tel: (962-6) 551 5191  
Fax: (962-6) 464 7961  
Email: noor@queennoor.jo

or  
Press Office of Her Majesty Queen Noor  
Bab Al Salam Palace  
Amman, Jordan  
Tel: (962-6) 551 5191  
Fax: (962-6) 535 3021  
Email: press@queennoor.jo

Queen Noor of Jordan has reached out to the Jordanians in her efforts to bring about awareness of the state of the environment and promote preservation efforts. She is a leader of many environmental initiatives in which she involves herself at all levels - inception, implementation and follow-up. At the international level, she acts as Patron of the International Union for the Conservation of Nature (IUCN). As Patron of Jordan's Royal Society for the Conservation of Nature (RSCN) - which operates environmental protection and awareness projects primarily concerning the country's wild and marine life - Queen Noor has overseen the establishment of seven reserves. The Society plans to establish five more by the year 2000. Her RSCN activities also include supporting environment clubs throughout the school system and commissioning comprehensive studies on fauna and flora in the Dana Nature Reserve. Her Majesty's concern for the ecosystem of the Gulf of Aqaba - one of Jordan's environmental treasures - prompted her to found the Aqaba Committee for the Protection of the Environment, launch campaigns to fight pollution, and helped establish the Gulf's Marine Science Station, which features an aquarium and carries out education and research projects. In addition, she headed the National Commission to develop laws supporting the National Environmental Strategy. The Commission worked with IUCN defining the strategy, making Jordan one of only two Middle East countries with a comprehensive environmental plan. She also supports the role of women in environmental preservation through her position as Patron of the Noor Al Hussein Foundation, which has a project providing rural women with farming equipment and training to manage medicinal herb gardens.

**Serigne Samb**

c/o Probovil, Louga  
B.P. 16  
Louga  
Senegal  
Tel: (221) 67 11 01

Serigne Samb is a farmer in the small village of Thiamb'ene Till in north-western Senegal: an area which has seen a drastic reduction in tree cover due to grazing pressures, shifting cultivation, and tree cutting. The loss of tree cover has meant loss of valuable fodder for domestic animals kept by the villagers. Samb recognized the negative effect that deforestation was having on his livestock herd and so in 1983 he established the first sylvo-pastoral field in Thiamb'ene Till. Samb fenced in 14 hectares of his farm using cuttings of *Euphorbia balsamifera*. His intention was to use the fenced in area as a fodder reserve in drought years. The natural regeneration of *Acacia raddiana* developed extremely well inside Samb's fenced field in contrast to the barren lands around it and after only four years of protection, the number of trees/ha had increased from 10 to 1,250. Samb's experiment has been a great success and has stimulated other farmers and community members in the region to adopt similar practices. His farm has become a model for soil conservation and environmental protection and has attracted the attention of the PROBOVIL project, which is making technical improvements and organizing visits by farmers from neighbouring villages. Samb's example clearly demonstrates that individual farmers, using locally developed technologies, can rehabilitate and protect their land while at the same time increasing their level of productivity.

**George B. Schaller**

Sentry Hill Road  
Roxbury  
Connecticut 06784  
U.S.A.  
Tel: (212) 220 5096  
Fax: (212) 220 7114

George Schaller has spent many years in remote and rugged places studying the natural history of rare animals - and fighting for their survival. He sees these animals as symbols of the habitats in which they live. Preserve their habitats and thousands of other plants and animals will be assured of a home is his motto. As the director of Wildlife Conservation International, a division of the New York Zoological Society, Schaller and the staff have helped establish more than 50 wildlife reserves around the world. Schaller feels that the destruction of environments is now so drastic that, in the decades ahead, the nature of life on earth will be irrevocably changed. For Schaller, saving fragments of nature is a matter of great urgency. Recently he faced one of his greatest challenges. With Chinese scientists, he collaborated in a project to save the 1,000 giant pandas still alive in the wild. He is currently working on the Tibetan plateau in order to help preserve the wildlife of those remote uplands. His numerous books include *The Mountain Gorilla*, *The Year of the Gorilla*, *The Deer and the Tiger*, *The Serengeti Lion*, *Mountain Monarchs*, *Stones of Silence*, *The Giant Pandas of Wolong*, and *Golden Shadows, Flying Hooves*.

**Safina Z. Siddiqi**

C-32 Block 2, Kaechs  
Karachi 75350  
Pakistan  
Tel: (92 21) 438 884/442 149  
Fax: (92 21) 772 6050

When nearing the age of 60 - a time of retirement for most people - Safina Z. Siddiqi was just gearing up to lead the women in her neighbourhood in Karachi in a campaign to improve their environment and living conditions. Her living-room wall - plastered with "before" and "after" pictures - portrays the fruits of the women's efforts. Before, the streets were pitted with potholes, open sewers spilled over contaminating drinking water and uncollected garbage accumulated into stinking heaps on the road sides. Since 1989, when Siddiqi founded the Karachi Administration Women's Welfare Society (KAWWS), the sites have changed. The women - the majority of whom are housewives with no university education like Siddiqi - pressured civil servants to help them build and repair roads in neglected areas, fix sewers and install street lights. The women themselves established a garbage collection system, planted tree saplings, negotiated a caretaking system to ensure their survival, and established eight parks - one which replaced a sewage pond. In 1992, KAWWS made quality drinking water a national issue when it filed public interest litigation before the country's Supreme Court as a human rights case. Siddiqi and her neighbours' efforts have attracted more members and international recognition. Membership has swelled to more than 100 and Siddiqi's story was one of 200 community development successes reported during the 1991 Global Assembly of Women and Environment in Miami, USA.

**Television Trust for the Environment (TVE)**

The Centre for Environmental Communications  
Prince Albert Road  
London NW1 4RZ  
United Kingdom  
Tel: (44 207) 586 5526  
Fax: (44 207) 586 4866  
E-mail: tve-uk@tve.org.uk

Set up in 1984, Television Trust for the Environment (TVE) works to raise public awareness through audiovisual media, placing particular emphasis on promoting issues relevant to developing countries and on building up programme-making capacities in these countries. In 1987, TVE launched the "Moving Pictures" service to provide a wide range of high quality films and videos to TV stations, non-governmental organizations (NGOs) and other educational agencies in low and middle income countries. Since its launch, "Moving Pictures" has enabled over 128 countries to broadcast over 5,000 films one or more times and sent out over 16,000 videos to NGOs. For ten years, TVE has supplied environmental programmes for Worldwide Television News (WTN). TVE and WTN just formalized their association by joining forces to co-produce a new television series "Agenda 21". The series provides TVE with a new means to help producers and film crews based in developing countries and countries in transition. TVE co-productions have won over 120 international awards, including Emmys, Prix Italias and BAFTAs.

**Trees for Africa**

P. O. Box 2035, Gallo Manor 2052  
 Republic of South Africa  
 Tel: (27-11) 784 6399  
 Fax: (27-11) 783 2134  
 E-mail: Proggreen@isat.co.za  
 Jpark@trees.org.za  
 Web: www.trees.org.za

Trees for Africa (TFA) is the only national greening organization in the Republic of South Africa that facilitates community owned projects. Funds are raised from corporations, funding organizations and citizens to assist in the improvement of the quality of life in the townships, curb soil erosion in rural areas, and create environmental awareness. Since its formation, TFA has planted almost a quarter of a million trees at 1,000 events throughout the country. TFA promotes education, training and youth development through educational workshops and tree planting projects. TFA continues to expand its activities and receives numerous requests daily for assistance from community groups throughout southern Africa. Although it is strong on grassroots involvement, TFA would not survive without the generous support of sponsors. Corporations, small businesses and individuals have given money, goods and expertise that have been pivotal in its work. According to the Department of Environment Affairs, eight million tons of fuelwood will be consumed annually in the Republic South Africa by the year 2000. Thirty per cent of the population relies on fuelwood as the main source of energy and growing trees for fuel is desperately needed to take the pressure off indigenous trees.

**Ron G. Watkins**

“Payneham” Haynesdale Road  
 Frankland, W.A. 6396  
 Australia  
 Tel: (619) 826 7013  
 Fax: (619) 826 7013  
 E-mail: rgwatkins\_co@bigpond.com

Ron Watkins has developed an innovative system of land management, to solve the problems of land degradation, water logging and secondary salinisation, wind and water erosion in his area. He has integrated this with land use management to address additional problems of soil degradation, acidification, loss of structure (organic matter) and loss and imbalance of plant nutrients. Watkins developed a new approach by insisting on the need to address whole catchments and work from the top of the landscape down, rather than treat the symptoms at the bottom of the landscape. The system also involves water harvesting and water use. This “Integrated Whole Farm - Whole Landscape Planning” management system is a significant advance in whole farm management irrespective of whether it finally solves the problem of recharge of ground water leading to secondary salinisation. The cost-effective system can be used in wind and water erosion control and in commercial and small holder farming systems. The land management system has been put in place over the past 10 years. Through membership at the Land Management Society, Watkins has contributed significantly to intellectual approaches to environmental problems.

**Kyung-Sun Won**

18-10 Okjung-Ri, Hoechon Eup  
 Yangju-Gun, Kyonggy Prov.  
 Republic of Korea  
 Tel: (822) 741 7961  
 Fax: (822) 745 8006

In 1955, Won Kyung-Sun, a Republic of Korea farmer, founded Pulmuwon - a self-reliant, charitable organic farming community with the goal of increasing food production in sustainable ways, which also would guard against food contamination. His first step in establishing Pulmuwon was giving up his land titles and donating his property to the community. At 80 years of age Won is still putting his life's energy into promoting organic farming as well as battling environmental destruction in an effort to alleviate poverty. He is revered as the father of Republic of Korea's organic farming movement and his influence on farmers in the Republic of Korea has been far-reaching. Over the years, he organized education initiatives promoting agricultural reform. Today, his former students are practicing organic farming throughout the country and have developed alternative agricultural technologies. They distribute their products widely through consumer cooperatives, providing people with ample amounts of safe food. In 1990, Won joined the Citizens' Coalition for Economic Justice (CCEF), and in 1992 he represented CCEJ at the Earth Summit. Upon returning to the Republic of Korea, he established the CCEJ's Centre for Environment and Development, which has worked with the Government to promote policies concerning recycling, pollution control and alternative energy development that adhere to sustainable development principles.

**Yokkaichi City**

and Mayor Kanshi Kato  
 1-5 Suwa-cho, Yokkaichi-Shi  
 Mie 510  
 Japan  
 Tel: (815) 9354 8114  
 Fax: (815) 9354 3974

Yokkaichi in Mie Prefecture was once notorious for its smog. Throughout the 1960s and the early 1970s, the City was badly polluted by sulphur dioxide from its huge oil and petrochemical manufacturing complex. In 1976, the City achieved the clean-air requirements on sulphur dioxide and by 1987, it was clean enough to be designated by the Environment Agency as a City where “the starry heavens could be seen”. After arduous technological and administrative battles, the Yokkaichi Pollution Control Board was able to implement a successful pollution control project integrating environment and development. Yokkaichi transferred its know-how to other cities with similar needs. In 1990, it became the host of the International Centre for Environmental Technology Transfer - which reaches out to developing nations and has trained 345 overseas experts from 26 countries. Yokkaichi City pioneered public medical care programmes to assist patients with pollution-related respiratory diseases, an initiative which led to the enactment of the 1973 Pollution Related Compensation Law. Two green buffer zones have been developed and 340 billion Yen have been spent on environmentally sound measures.

## YOUTH

### **Alwan-Al-Teif**

P. O. Box 44266  
House 32, Street 57, Al Amamat Central  
Khartoum  
Sudan  
E-mail: secs75@hotmail.com

Alwan-Al-Teif, a children's music and drama troupe in Sudan, proves that no one is too young to help raise public awareness about environmental issues and have an impact. Through the troupe's performances at children's festivals, schools, universities, ministries and other institutions, the young members are directly involved in environmental conservation - changing people's values today to help assure they have a home free from pollution and mass degradation tomorrow. Their work has inspired other youth groups to emulate Alwan-Al-Teif and their music is often broadcast on radio and television. The troupe has also produced an audio-video cassette with 16 songs and plays. Off-stage, Alwan-Al-Teif has established a tree nursery and distributed many of the plants to people throughout the local community.

### **Association for the Protection of the Environment**

Mokattam Village  
P. O. Box 32  
Qal'a, Cairo  
Egypt  
Tel: (202) 510 2723  
Fax: (202) 510 0149  
E-mail: ape1@idsc.net.eg

The Association for the Protection of the Environment (APE) is a non-profit organization which emphasizes conservation through recycling and believes in providing the poor (especially vulnerable women's groups) with opportunities for self-advancement. The main activity of the APE is a compost plant which collects animal manure and organic material from garbage dumps and turns it into commercially viable fertilizers, some of which is used in reclaiming Egypt's desert land. The secondary, but rapidly expanding activity is the making of handicrafts such as rugs, bags and pillows from recycled rags. The workers come from Mokattam Village and are young girls and women who collect garbage for a living. Due to training in the use of hand looms they are able to earn their livelihood with dignity and pride. Literacy is encouraged and cost-free classes are available on the Association's premises. Both projects are income-generating and due to the supportive framework of the APE, the Mokattam Village women have learnt to find joy and laughter within the existing context of their lives as garbage collectors.

### **Robert D. Dyer**

50 Birdhurst Ave.  
Cowies Hill  
Natal 3610  
Republic of South Africa  
Tel: (27-31) 701 5046  
Fax: (27-31) 701 3454

Robert Darren Dyer is a member of the South African Wildlife Society and of his school's conservation club project "Catchment Conservation in the Umhlatuzana Basin". He has received the following awards: Conservationist of the Year Award (Wildlife Society); National Audi Innovators for the Environment Award; M-Net Green Trust Award; Winner of Natal Bisonbord

Environmental Symposium; Winner of National Enviro OK Youth Symposium. His project's aim is to: plant vegetation on the banks of all the Umhlatuzana catchment rivers; remove alien invader plants and replace them with indigenous species; educate user groups to conserve top soil; establish Umhlatuzana catchment conservancies; uplift the housing standards of less fortunate communities. He is involved in awareness campaigns via lectures, exhibitions, posters, public addresses, publications, radio and TV programmes, brochures and competitions and in 1993 he established a youth club, involving more than 100 pupils from at least 12 schools. He holds bi-monthly "river days" and attends awareness weekends at selected nature reserves. He established a nursery on school grounds; repaired degraded river banks along an 87 km stretch of the Umhlatuzana river and its tributaries. He holds monthly meetings to identify problems and works on joint solutions so that communities become empowered by their own achievements.

### **Green Machine Nature Conservation Club**

c/o Michael Spies  
Sunridge Primary School  
P. O. Box 1410  
Knysna 6570  
Republic of South Africa  
Tel: (27-445) 851 698  
Fax: (27-445) 22092

The achievements of the Green Machine Nature Conservation Nature Club run by the Sunridge Primary School have to be seen in the light of the fact that it is managed by students belonging to one of the most under-privileged sections of the Republic of South Africa's society. Greening of the environment has gone along with efforts to improve the living conditions of the people. The first project aimed at uplifting the impoverished and informal settlements in and around the Knysna district. The Club organized workshops for the youth addicted to narcotics as well as soup kitchens for the hungry. Since the informal settlement is situated around a dumping site, a system was set in motion to exchange food packets for recyclable materials. This not only helped clean up the area, but also assisted the community in supplementing its income. For the second project, the Club created an indigenous park in the grounds of the school. As part of the project, the Club supplied trees to other schools in the area and helped another create its own indigenous park. Their third project was a campaign against waste, encouraging recycling. This was run concurrently with a campaign to enhance environmental awareness. Waste paper recycling bins were taken to businesses in the district and companies were asked to sign a pledge to recycle office waste paper.

### **Humphrey Bheki Mvula**

Thabisong Youth Club  
2581 Mndeni Ext.  
P. O. Kwa-Xuma  
Kwa-Xuma 1868  
Republic of South Africa  
Tel: (27) 934 1586

Humphrey Bheki Mvula is a young community builder. He has created the Soweto Thabisong Youth Club which raises awareness of environmental problems and their solutions in a multi-faceted way. Through the fine art of drawing, the environmental club has promoted biodiversity and the conservation of resources. Through painting and sculpture, using newspapers they collected, the young environmentalists of the township have put art at the service of environment and vice-versa. Environmental trips to Durban and Cape Town have permitted the Club members to witness the

beauty of the Republic of South Africa's nature and its plant kingdoms. A park has been created around the youth centre, attracting many local residents from neighbouring townships. It is often used as a setting for photo sessions during weddings. Last but not least, entertainment in the form of dance and music have been included in environmental awareness campaigns.

#### **Second Creek Environment Project**

John Bisseker Secondary School  
P. O. Box 1006, Pefferville  
East London 5220  
Republic of South Africa  
Tel: (27-431) 436 900  
Fax: (27-431) 25285

A few years ago, a squatter camp in East London was just another casualty of burgeoning political strife and unemployment in South Africa. It was a crude configuration of shacks amidst a wasteland of broken bottles barely distinguished from the adjoining municipal rubbish dump. Today, this settlement is ship-shape. The shacks are immaculately painted. The grounds are spotless and a vegetable ground dominates the area. This transformation is largely due to the work of children, specifically pupils of John Bisseker Secondary School. This is their biggest success story. The school has been involved since 1991 in the Second Creek Environment Project. Starting with a small group of only 15, the project has now grown to encompass a human settlement of nearly 1,000 people. The Project's areas of involvement include monitoring the condition of the Second Creek river, regular clean-up campaigns, sorting of garbage for recycling, planting of trees and halting soil erosion. The group also assists the squatter community with food, conducts first aid courses and holds regular "enviro-clinics" to educate parents and children on environmental matters. This project has inspired many individuals and

organizations, both locally and further afield, to become involved in enhancing their environment. The squatter community has also benefited greatly from this association. The project won the Department of Education and Culture Environment Competition in 1991 and 1992.

#### **Young Pioneers Environmental Monitoring Station of Daxinglu Primary School**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

In May 1990, the first Young Pioneers Environmental Monitoring Station was established at Daxinglu Primary School. Each week, the fifth grade students carry out investigations on acid rain, air, dust and noise pollution. The results of their findings are put to use based on information obtained on the noise and dust pollution near their school. They recommended that a three-dimensional afforestation plan be implemented and botanical gardens be planted to improve the school's environment. All the students are given basic environmental education. The school offers scientific courses and integrates environmental education with other subjects taught in the curriculum. The work they do is not merely self-serving. They take it upon themselves to voluntarily instruct local farmers on the importance of conserving trees as well as sustainable farming practices. They look after the school's flora and often leave campus to visit the neighbourhood inhabitants asking them to care for their environment. Through their surveys, sample collections and detecting, they are able to write up articles which meet the local need for information.



## 1996 GLOBAL 500 LAUREATES

### ADULTS

#### **Lalita Balakrishnan**

All-India Women's Conference (AIWC)  
No. 1193, Sector B-1  
Vasant Kunj  
New Delhi 110 070  
India  
Tel: (91 11) 689 8958/689 6463  
Fax: (91 11) 372 1709

With more than 35 years experience in journalism and social service and as Honorary Vice-President and Chairperson of the Rural Energy Department of the All-India Women's Conference (AIWC), Mrs. Lalita Balakrishnan has been a pioneer in the environmental field and has spearheaded the country's woodstove programme which has been judged to be the best by the Government of India. Her efforts have resulted in: more than 3,000 rural women being trained in the construction and maintenance of improved woodstoves and their becoming self-employed and earning decent wages; a reduction in the amount of time spent on collecting fuelwood by three to six hours daily; the installation of 215,000 improved woodstoves in 3,000 villages in 22 states; a saving of 700-1,000 kg of fuelwood per *chulha* per annum or a total of 200,000 tons in a decade or Rs.700 per household/year; the prevention of smoke-related diseases such as bronchitis, asthma and eye infections in a population of about one million (studies have shown that woodstove smoke inhaled by the average rural woman is equivalent to smoking five packs of cigarettes a day); the construction of more than 2000 bio-gas plants in rural areas using a network of 150 NGOs; the provision of clean cooking fuel under hygienic conditions and bio-fertilizers for more than 200 families. She is India's National Coordinator for the International Forum for Sustainable Energy and a Director on the Board of India's Renewable Energy Development Agency.

#### **Professor Paul Joseph Crutzen**

Airchemistry Department  
Max-Planck-Institute for Chemistry  
P.O. Box 3060  
D-55020 Mainz  
Germany  
Tel: (49 6131) 305 458/59  
Fax: (49 6131) 305 511

Professor Paul J. Crutzen has made and continues to make, major contributions both to environmental research and to rational political discussions that lead to enhanced environmental protection measures. In 1969, he was the first to propose that nitrogen oxides (NOx), some of which could be produced by human activities including nuclear explosions and the operation of high-flying aircraft, are capable of destroying stratospheric ozone catalytically. This work led directly to a large expansion in research efforts on the stability of the ozone layer and to the identification of further threats from chlorofluorocarbons (CFCs). Then in 1973, Professor Crutzen opened the field of tropospheric chemistry by demonstrating through theory that a rich variety of chemical reactions must occur (driven by sunlight). Some of these reactions are more intense in polluted regions while some proceed in remote, unpolluted regions. In this research, he demonstrated

the central role of NOx gases from human-caused high-temperature combustion processes. Still in the 1970s, he was a leader in mapping out the response of the stratospheric ozone layer to nitrogen and chlorine compounds, and he identified carbonyl sulphide as the most important non-volcanic source of stratospheric aerosol particles that can affect the Earth's climate. In the late 1970s, he identified tropical biomass burning as an important pollution source affecting ozone formation and atmospheric chemistry, and in 1982, with Birks, the possible atmospheric and climate consequences of a large scale nuclear war ("nuclear winter"). The "nuclear winter" theory has had profound impact on the debate concerning nuclear disarmament. During the 1980s, Professor Crutzen expanded the scope of his biogeochemical research to include global perturbations of the nitrogen cycle, and the role of greenhouse gases in disturbing Earth's climate. Throughout, he has remained a world leader in the investigations of the ozone layer, in providing understanding of the Antarctic ozone hole and how human-produced CFCs lead to ozone depletion. In summary, Professor Crutzen has played a leading role in showing that human activity can have significant effects on the global atmospheric environment. There is no doubt that he has made an outstanding contribution to the sum of our knowledge in atmospheric chemistry - a new area of atmospheric science.

#### **Earth Love Fund**

9 Standingford House  
Cave Street  
Oxford, OX4 1BA  
United Kingdom  
Tel: (44-1865) 200 208  
Fax: (44-1865) 209 091  
E-mail: earthlove@gn.apc.org

The Earth Love Fund is a non-profit organization founded by three individuals from the music business who put aside their commercial ventures to raise money for conservation projects in rainforest regions. The Fund's first album was the official album for the Earth Summit and raised half a million pounds which have supported more than 40 projects around the globe - particularly in developing countries. To compile this record, the Fund persuaded some of the world's leading musicians, including Paul McCartney, U2, Peter Gabriel, Sting and Dire Straits to donate tracks on a non-profit basis. In 1995, Earth Rise II was released and received major media coverage in Europe. The link with popular music gives the Fund an opportunity to promote the environmental message to a wide audience which is one of its primary objectives. Activities supported include: extraction of samples of essential oils in the Alto Jura region of Brazil to seek sustainable economic activity for rainforest areas; purchase of seedlings for the Green Belt Movement in Kenya; education in a local community of Cameroon on management of resources in a sustainable manner; establishment of a rainforest medicine project in Peru; creation of an eco-forestry training support programme in Papua New Guinea; development of a project to protect the Dong Nah Tom Forest in Thailand; preservation of traditional crop varieties in Nepal; establishment of an indigenous peoples' environmental resource centre in Irian Jaya; and research into Amerindian agriculture in Guyana.

**Environment 2000 Foundation**

P. O. Box A639  
 Avondale  
 Harare  
 Zimbabwe  
 Tel: (263 4) 339 691  
 Fax: (263 4) 339 691  
 E-mail: e2000ch@mweb.co.zw

Environment 2000 (E2000), is a non-profit organization staffed by young Zimbabweans, whose aim is to: stimulate environmental awareness and action; uplift socio-economic sustainability and the well-being of the community; and protect the environment. Aware of the need to work with the corporate sector to reduce environmental degradation, in 1992, E2000 established the Environmental Labelling Programme (ELP). ELP has received a favourable response from industry which is trying to become greener by requesting to have their operations audited before being awarded the blue or green logos stamp of approval. ELP also makes consumers aware of companies whose products and services are environmentally friendly and encourages them to avoid buying products and services which are not. In line with its goal to spread environmental education, E2000 established clubs in schools throughout the country to educate young people about the economic, cultural and aesthetic value of natural resources and helps them develop a better understanding of nature conservation. E2000 provides information through its quarterly magazine *Green-line*. Environmental debates, public speaking, camps, field trips, tree plantings and essay competitions are among other activities which E2000 Clubs undertake. Its Information Service engages in comprehensive research in rural and urban areas in order to expose negative environmental activities.

**Garanti Bank T.A.S.**

Garanti Bankasi Genel Mudurluk  
 Buyukdere Caddesi, Levent  
 80670 Istanbul  
 Turkey  
 Tel: (90 212) 286  
 Fax: (90 212) 286 0135

Garanti Bank is committed to conserving Turkey's natural assets. The Bank has made nature conservation the central theme of its public relations programme. Wall calendars promote awareness of issues such as animal populations and flora and fauna, while their advertising campaigns highlight endangered species. Recycled paper is used whenever possible for the Bank's publications. Clean air, greenery and open space are the thematic messages of its branches, whose architectural design reflect a green environment in the form of an oasis. In-branch parks serve as waiting areas, while ionizers purify the atmosphere. The Bank has been the primary sponsor of The Society for the Protection of Nature (DHKD) since 1992. One of several projects is the Bird Sanctuary project which seeks to protect wetlands and other bird sanctuaries throughout Turkey. Some 450 species of birds are found in the country, including 12 internationally-recognized threatened species. In addition, Turkey harbours living and breeding grounds for sea creatures, most notably sea turtles. Garanti Bank sponsors programmes which protect the nesting areas of these creatures. Turkey possesses some of the most diverse flora in Europe, with more than 9,000 plant species - one third of them unique to the country. The Bank assists in the protection of this natural wealth by funding several projects managed jointly by DHKD and The Fauna and Flora Preservation Society. Thanks to these efforts, Garanti Bank has given Turkey's wildlife and habitats a chance to survive.

**Dr. Tansu Gurpinar**

Melis Sitesi, E. Blok, No: 21  
 Umitkoy 06530  
 Ankara  
 Turkey  
 Tel: (90-312) 235 4712  
 Fax: (90-312) 310 6642  
 E-mail: tansu.gurpinar@dhkd.org

Tansu Gurpinar, a botanist, zoologist and geologist, joined the National Parks and Wildlife Department of Forestry in 1966 and remained there until 1969. He carried out several projects on the conservation of large endangered mammals in Turkey, including the anatolian wild sheep, the ibex goat and the fallow and roe deers which today can be found in healthy numbers. He helped plan several National Parks, while undertaking inventories and censuses of wetlands and birds. In 1970, after observing the alarming decline of birds of prey in the country, he made a plea for their conservation and succeeded in ensuring their full legal protection. From 1969 to 1973, he was Director of the country's first bird sanctuary where he enforced protection laws and improved their habitat to attract new species of birds. Thanks to him, a considerable increase in the existing population has been recorded. Since 1976, the Park has been awarded a First Class Europeans Diploma four times. From 1973 to 1977, he fought and succeeded in saving one of the most important wetlands in Turkey from a large drainage project. Today, it is a nature protection area and a Ramsar site with more than 500,000 birds. In 1978, he was appointed the Head of the Education, Legislation and Finance Department where he implemented better conservation policies. He is currently Deputy Director of the Environmental Protection Agency. Dr. Gurpinar, a leading nature photographer who has won numerous awards, is the author of three nature books and is a founder/member of the Society for the Protection of Nature.

**Carlos Roberto Hasbun**

7a. Calle Poniente No. 5150  
 San Salvador  
 El Salvador  
 Tel: (503) 298 6387

Carlos Roberto Hasbun, born in El Salvador in 1963, is a biologist who has done more for the environment in six short years than most accomplish in a life-time. His activities have been undertaken at the grassroots level without publicity or fanfare, but simply out of love for the flora and fauna of his country. He wrote and lobbied for the first wildlife conservation law approved in the El Salvador Congress (1994). He is co-founder of the Wildlife Rescue and Rehabilitation Centre of El Salvador - a clinic where injured and/or confiscated animals are treated and returned to the wild. He is the founder of the National CITES Commission and of the Zoological Foundation of El Salvador. He also founded and continues to head the Sea Turtle Conservation Programme in the village of Barra de Santiago where he develops management schemes for the sustainable use of mangrove wood, green iguanas and marine turtles through the involvement of local communities. He established the Salvadoran Environmental Association "Friends of the Trees" which has planted 300 mangrove seedlings for each adult mangrove tree cut down. He is currently the Director of the National Parks and Wildlife Service where he develops conservation and management programmes for wildlife and wildlands. His is the tale of a quiet man and a beloved teacher who taught children in a village who in turn taught their parents, to leave half the eggs each turtle lays on the shore so that this species can be safeguarded for future generations.

**Rampa and Tom Hormel**

846 Paseo Miramar  
 Pacific Palisades  
 California 90272  
 United States of America  
 Tel: (208) 726 1023  
 Fax: (310) 459 3469  
 E-mail: RampaRH@aol.com

Rampa and Tom Hormel have been environmentalists since 1986. Initially, they supported the Global Tomorrow Coalition by funding and organizing conferences supporting sustainable development. In 1986, Tom founded the Global Environment Project Institute (GEPI) a private foundation which they co-chair. Through GEPI, they have initiated and supported projects such as: The Eastern Africa Environmental Network (EAEN) which helps increase environmental awareness in the region and promotes information exchange through a newsletter and an annual conference which now draws participants from 10 East African countries; Environment and Education which designed a curriculum for high school students to investigate the impact of consumption on natural resources within the school context; the Environmental Resource Centre (ERC) which serves the public with its library, meeting area and projects on waste, energy efficiency and transportation; the Sawtooth Community Garden Project (SCGP), which educates communities in sustainable living practices through the construction of a renewable energy greenhouse and community facility set in a five-acre botanical garden. SCGP will provide models of sustainable building and gardening practices. Rampa has focused on consumer issues, the founding and directing of an information centre at the nation's first environmental shopping mall and served on the Board of Green Seal, a non-profit organization which identifies environmentally-friendly goods and services.

**Veit Koester**

The National Forest and Nature Agency  
 Ministry of Environment, Haraldsgade 53  
 2100 Copenhagen  
 Denmark  
 Tel: (45) 3947 2000  
 Fax: (45) 3927 9899

Veit Koester heads the Ecological Division of the National Forest and Nature Agency in the Ministry of the Environment of Denmark. He has authored or co-authored numerous articles and publications in the field of nature conservation and international environmental law. Mr. Koester has been an active contributor to the preparation of several international legal instruments on nature conservation, notably the World Heritage Convention, the Bonn Convention on the Conservation of Migratory Species of Wild Animals, the Convention on the Conservation of European Wildlife and Natural Habitats, the European Community Directive on the Conservation of Wild Birds and Community Regulations i.e. on the implementation of the Washington Convention within the community. He has been responsible for the Danish implementation of these international legal instruments. Mr. Koester has served as the elected chairman for and is a member of numerous international committees and environmental organizations.

**Danuse Kvasnickova**

Na. Strzi 47  
 14000 Praha 4  
 Czech Republic  
 Tel: (420-24)173 1638  
 E-mail: d.kvasnickova@volny.cz

Throughout her career, Danuse Kvasnickova has promoted environmental education at all levels of the Czech Republic's educational system. She began working as a secondary school biology teacher and, in 1968, organized a national biological competition which continues today. Later, she established the Czechoslovakian Society for Environment, the ECOMENIUS Foundation which trains environmental education specialists, and the Eco-Gymnasium. The gymnasium, where she is Director, was the country's first private school with a curriculum emphasizing the environment in all subjects and at all academic levels. She later worked with other Eastern European countries to simulate her work on an international level. Ms. Kvasnickova is involved in the Dandelion Project sponsored by the Ministry of Agriculture, which focuses on environmental activities for young people living in rural areas. She has taught pedagogy courses and lectures on environmental education at Charles University in Prague. She has also produced textbooks, articles, radio programmes and videos which were part of a television series entitled "Ecology in all Cases".

**Professor Akio Morishima**

School of Law  
 Nagoya University  
 Uedayama 1-1716  
 Tenpaku-ku, Nagoya 464  
 Japan  
 Tel: (81 52) 789 4950 or 831 4633  
 Fax: (81 52) 831 2982

Professor Akio Morishima is an eminent international lawyer whose primary concern has been environmental protection for more than three decades. He is considered a theoretical leader in environmental law and policy development in Japan and in environmental research and science. He has served in this field at national and international levels and has been an enthusiastic supporter of environmental justice. He participated, as an expert adviser to the plaintiffs' lawyers in two important court cases, namely the Yokkaichi Asthma Litigation and the Shinkansen Super-Express Train Noise Litigation. Not only did the plaintiffs win the case, his efforts resulted in the strengthening of pollution control and environmental protection measures by the Government. As Chairman of the Policy Committee of the Central Environmental Council, he was the mastermind behind the report *Basic Environment Plan* which outlines the long-term policies for environmental conservation in Japan, while taking into account the outcome of the Earth Summit in Brazil. Professor Morishima has also taken the lead in environmental research and science, and has played a key role in promoting environmental awareness and community action through the Chubu Environmental Association which he established. He is a member and representative of the Consumer Action Network in Nagoya - a consumer and environmental groups forum. He is President of the Japan Society of Environmental Sciences and a member of the Executive Board of the Japan Centre for Human Environmental Problems.

Through his actions, he has gained the confidence of governments and community-based organizations alike. He is also a member of the Commission of International Environmental Law of IUCN and of the Editorial Advisory Board of the World Resources Institute.

**Bahuddin Hi Pabbite**

Sausu Peore Village  
Parigi District, Donggala Regency  
Palu Province of Central  
Sulawesi  
Indonesia

Eighty year-old Bahuddin Hi Pabbite, better known as Pak Tua, has, since 1940, been fighting a lonely battle to preserve the Maleo Bird - long before the Government of Indonesia put this species on the endangered list. The Maleo, which lives in Tomini Bay in Central Sulawesi Province, has been threatened for decades by human predators who steal their eggs. An illiterate man, Pak Tua lives a very simple existence in an unsuitable house along a beach where the Maleo lays its eggs, so that he can protect its offspring. During the egg laying season, he collects the eggs and puts them in a traditional hatchery box measuring 100x50x50 CM3 which accommodates approximately 40 to 80 eggs. After about three months, the eggs hatch and seven days later the small birds are released into their natural habitat. Pak Tua determines their ability to survive when the chicks are able to crack gravel, dig in sand, run and fly. Although this noble work is not appreciated by the village people, PakTua has not lost his enthusiasm and still finds much satisfaction in this lifelong work. He is the winner of his country's 1994 Kalpataru Award in the Environmental Pioneer category.

**Sonia Regina de Brito Pereira**

Rua Carvalho de Mendoca  
No. 36 - Apt. 802, Copacabana  
Rio de Janeiro  
Brazil  
Tel: (5521) 237 5177/542 1385

Sonia Pereira of Brazil is an environmental lawyer, a biologist, a social psychologist, and professor of Environmental Law and Human Ecology. She also coordinates the Ecological and Educational Training Programme in Human Ecology to support low-income communities to help them address their common problems, through reflective-learning and working together to clean and restore their environment. In the 1980s, she was responsible for bringing to international attention the negative effects of the biggest hydroelectric power station built in the

Amazon. She has fought against the destruction of the forest and submitted a paper asking the United Nations to conduct investigations and examine the killing of many people in the whole region as well as the use of poisonous chemical substances to clear the vegetation. She has contributed to the development of Government environmental management activities, and promoted public dialogue between the Government and communities. Her conviction which encouraged communities to resist efforts to destroy their lands and lives, has led to numerous death threats. She has written several articles and co-authored a book entitled *Environmental Planning*. She was a delegate for the Latin America and Caribbean Seminar on Women and the Environment, a Success Story Presenter at the Global Assembly on Women and the Environment and at the World Peace University Symposium for Native Wisdom, Native Rights and Mother Earth.

**Miguel A. Reynal**

Fundacion Ecos  
Bahia Delfines, Solanas  
Maldonado  
Uruguay  
Tel: (59) 842 79170/78002  
Fax: (59) 842 79170

Miguel Reynal became actively involved in nature conservation following a personal tragedy. In 1978, he founded the Fundacion Vida Silvestre Argentina (FVSA) which today is the leading environmental non-governmental organization in Argentina and throughout the region. FVSA has an annual budget of more than US\$1.5 million and a membership of 4,000 with chapters in major parts of the country. During his 12 years as Executive President, he has: saved the pampas deer, historically the most abundant mammal in the region, from extinction; discovered a rare bird, the spotted grebe, and saved it from extinction; established a network of private reserves including an 84,000-hectare private and state biological reserve and bird sanctuary in Buenos Aires; created a breeding station for the endangered pudu-pudu deer; developed courses on environmental education for primary school teachers (1,500 trained to date); undertaken continuous lobbying and advocacy on behalf of the environment; and organized ongoing nature safaris. In 1987, Mr. Reynal started Save the Forest, an international initiative designed for media advocacy and debt for nature swaps. He purchased three full-page adverts in the *New York Times* indicating individuals most responsible for destructive environmental practices. In 1993, he founded, funded and became Executive Director (ad honorem) of Fundacion Ecos which organizes short courses, seminars and workshops for community leaders and decision makers in South America.

**Ken Saro-Wiwa** (deceased)  
Environmental and Human Rights Activist  
Nigeria

Ken Saro-Wiwa led the resistance of the Ogoni people against the pollution of their Delta homeland in Nigeria. At all stages of their campaign, Saro-Wiwa advocated peaceful resistance to the forces that would deprive the Ogoni People of a say in the development of their region. As leader of the resistance movement, he knew full well the risks he ran in opposing the Nigerian Government. In November 1995, Saro-Wiwa and eight other Ogoni activists were executed. Subsequently, the Nigerian regime was roundly condemned by the leaders of the international community. Saro-Wiwa advocated that human rights and the environment are inextricably linked. He sent a message to the world that all peoples have an inalienable right to peacefully protest destructive development.

**Tatyana Fyodorovna Stepanenko**  
30-135 Zanevski pr.  
St. Petersburg 195112  
Russian Federation  
Tel: (7 812 2) 741 697  
Fax: (7 812 2) 712 644

In 1975, when Russian Tatyana Fyodorovna Stepanenko went to work at Vodokanal, a state enterprise in St. Petersburg, she set her sights on finding ways to limit levels of waste dumped into the Newa River system and the Baltic Sea. She wrote, "... the sewage waters of industrial enterprises of St. Petersburg are discharged without any surveying whatsoever...". Soon after, not only did she find high levels of extremely polluted waste water discharged by industry, but many of those industries were part of the defence complex. Her work posed enormous challenges: environmental protection was not high on the policy agenda and the defence industry was not obliged to follow the few environmental regulations in place. Tatyana Stepanenko persevered. In the end, she established an information collection system of the industrial waste dumped into the water. The findings prompted the Government to draft regulations for industry that included supervisory measures and a system of fees structured according to

a polluter pays principle. The goal she set out to achieve took 18 years. The policy Tatyana Stepanenko helped develop is now in force in all Russian townships. But this is not the end of her story. In 1994, she established a fund for the fees collected from polluters to finance projects to improve the ecology and urban environment. Today she is director of Vodokanal and organizes seminars to educate industry about protecting seas and waterways.

**Nergis Yazgan**  
Dogal Hayati Koruma Dernegi  
P.K. 18, 80810 Bebek, Istanbul  
Turkey  
Tel: (90 212) 279 0139/265 2122  
Fax: (90 212) 279 5544

Nergis Yazgan is a leading nature conservation figure in Turkey, whose environmental activities span two decades. In 1975, she was instrumental in establishing two non-governmental organizations: The Society for the Protection of Nature (DHKD) and the Turkish Nature Conservation Foundation. DHKD is today a leading conservation organization in the country with 6,000 members and a professional staff of 27, including geomorphologists, fishery engineers, ornithologists and business administrators. Together they are implementing 12 field projects ranging from protection of wetlands and bird habitats to safeguarding Turkey's vast botanical biodiversity through the cultivation of indigenous bulbs and the protection of coastal zones. All DHKD projects have an environmental education component. Thanks to her single-handed efforts, a major environmental battle to safeguard the most important breeding grounds of the endangered sea turtles was won. The issue became a huge national and international concern, and ended with the cancellation of a mega-tourism master plan and the declaration of Dalyan as a specially protected area in 1988. In 1994, she was very active in the declaration of another protected area: The Poloneskoy Nature Park near Istanbul. Mrs. Yazgan has always advocated the need for supportive volunteers and has undertaken fund raising activities in addition to her conservation efforts. She was the organizer of three fund raising events, which permitted DHDK to undertake its activities.

## YOUTH

### **Herederos del Planeta**

Calle 10 No. 36-28  
Urb. Panamericana  
Pasto, Narino  
Colombia  
Tel: (57 927) 231 1022  
Fax: (57 927) 231 1022

Herederos del Planeta (Inheritors of the Planet) is a Colombian youth programme designed by the Red de Reservas Naturales de la Sociedad Civil, an environmental network linking 85 reserves throughout the country. Herederos addressed the issue of inter-generational justice and aims to: motivate and train young people; create environmentally conscious and dedicated global citizens; and prepare future generations for the struggle to preserve the environment and the continuity of species. It has about 100 activists and more than 500 highly motivated followers. The most enthusiastic candidates are selected in each region and offered basic environmental training on the functioning of ecosystems. Exchanges are organized among the various nuclei around the country during school holidays, to provide motivation and to exchange experiences. Each nucleus organizes its own fund raising ventures to meet the costs of its activities. The Network today has a seed fund for small projects. Each member also publicizes the programme and its activities, excursions and courses among his/her schoolmates. The Sibundoy Valley Group collected funds to purchase a marsh area and turned it into a nature reserve so as to conserve a water source feeding into the local aqueduct. Each year, creative competitions are sponsored by Herederos in each region to solve a given environmental problem. Members of the organization are also invited to training events held by the Reserves Network.

### **A High School Student Group of Junior Journalists for Environment**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

Ten years ago teachers at the high school in Xuzhou Coalmine, a village in China's northern Jiangsu Province, got together with students to start a group of junior environmental journalists. It was an effort to raise the students' sense of responsibility about the world around them. Over the years, increased projects have focused mainly on public education activities. The group has held writing, photography, speech and story-telling contests, worked with the local environmental authorities to inform the public about subjects ranging from the harm of killing frogs and the illegal sale of its meat to protecting local rivers and lakes from wastes. The students also do hands-on work such as planting trees, organizing school clean-up campaigns, and attending extra-curricular classes on environmental protection. They even have an environmental summer camp when school is out of session. The field studies they have conducted have taken them far beyond the schoolyard. Since 1985, the group has travelled more than 10,000 miles. The students have surveyed major sources of pollution along the Kui River after which they wrote a

report and drew up a map that they submitted to the municipal government. They also studied the offshore water pollution in the Bohai Gulf, travelled to Hunan Province to learn about dealing with pest control problems, visited Balinyou County, Inner Mongolia, to see the sand encroachment of the area's grassland and trekked through northwestern China to examine the region's biological diversity.

### **Wahn Lee**

60/6 498-297 Hupyong 2-Dong  
Chunchon-Shi 200-162  
Republic of Korea  
Tel: (82) 361 55 1988

"It was two years ago that Mr. President announced his plan to ride a bicycle instead of a limousine for the purpose of keeping the air clean. His secretaries, however, did not agree with his adventure, worrying for his safety. Nevertheless, he just went on riding and nothing could stop him." So goes just one of the 18 tales included in a book of environmental children's stories written by 13-year-old Wahn Lee of Korea. The book - 130 pages - took him three years to complete. At the beginning of his project, Wahn carefully researched his stories' protagonists. He went to libraries and the Government Offices of the Environment to find facts on environmental problems as well as on earthworms and ants - some of his favourite subjects. He also designed the book's jacket and painted the pictures it features. Wahn carries his concern for the environment beyond the book's pages. Last year at school, where he was president of the student body, he helped manage a recycling store that generated profits used to buy food and clothes for a senior citizen's home. Since 1991, Wahn Lee has received numerous awards and prizes in recognition of his environmental activities, including the prevention of water pollution and recycling (1991). Utilization of waste materials and the invention of a central heating apparatus using burning waste (1991); use of waste materials and its economic benefits which awakened people's consciousness (1992); recycling campaign (1992); recycling campaign using waste from left over food (1993); campaign dealing with the sandy dust phenomena from China which has had a negative impact on Korea's environment (1995). The awards were given by the Ministry of the Environment, the Korean Boy Scouts Federation, the Ministry of Science and Technology, and the Invention Association. He has done a great deal to promote environmental awareness through the media, and has been interviewed on radio, television and by the print media on numerous occasions.

### **Fatih Yilmaz**

Yatili Ilkogretim Bolge  
Ilkokulu, Yuksekova  
Hakkari  
Turkey  
Tel: (90 438) 351 4005

Fatih Yilmaz comes from Eastern Anatolia, one of the least developed regions in Turkey. He is a young and dedicated environmentalist both in his school and in his village. He is a founding member of the Environment Club which is active in tree planting and beautification projects. Together with this Club, he planted over 10,000 trees in his village where most people are illiterate. He initiated an erosion control project on farm land by forming a barrier with shrubs and trees. In 1993, he participated in an essay

competition organized by the Turkish Foundation for Combating Soil Erosion, Reforestation and the Protection of the Natural Habitats (TEMA), and his paper on soil erosion: *Causes and Losses* won second prize. Fatih, in cooperation with TEMA, informed the local community about gully erosion and its prevention. He continued to be a successful mobilizer of his community and the resources available to them. He organizes workshops to raise environmental awareness, and speaks about environmental problems on local radio and television programmes. He also lobbies and gives proposals to the provincial municipality on proper sanitation and infrastructure, in an effort to prevent pollution in the nearby river. Fatih initiated recycling activities in the area, and has contacted the local traffic police to prevent noise pollution.



## 1997 GLOBAL 500 LAUREATES

### ADULTS

#### **Siti Aminah**

Lembaga Solidaritas Bangsa  
Jalan Sanggarahan 25, Labuhan Mapin  
Alas 84353, Sumbawa  
Indonesia  
Tel: (622-1) 314 1308  
Fax: (622-1) 314 5251

Siti Aminah is Head of the environmental NGO, Lembaga Solidaritas Bangsa (LSB) in Indonesia, which has received a Global Environment Facility (GEF) biodiversity grant. The aim of the 24-month project is to bring the mangrove forest back to the Semangat Baru Area in Labuhan Mapin fishing village. LSB, mobilized by two young women and led by Ms. Aminah, has already gained the trust of local communities and authorities. The Forestry Department has even requested that their fishermen trainees obtain direct guidance and training from the two women on how to prevent land degradation, manage land erosion areas and explore the Sumbawa coastal areas to improve local community skills and income-generating capabilities. LSB started its activities by planting mangrove saplings, which they collected from an uninhabited island. With their determination and enthusiasm they have brought back the fish and crustaceans to their breeding areas along the shores; increased local people's awareness in preserving the environment; trained people who can promote this effort in other areas; and contributed to the emergence of new groups which will rehabilitate more critical areas in Sumbawa and other islands in the Lesser Sunda Islands. At 25 years of age, Ms. Aminah has established herself as an informal leader of the community and has been accepted without any friction by a society where most leadership positions are traditionally held by men.

#### **BBC World Service Education Department**

BBC Education Department  
218/219 South East Block  
Bush House, The Strand  
London, WC2B 4PH  
United Kingdom  
Tel: (44-207) 257 2464  
Fax: (44-207) 240 3141

The British Broadcasting Corporation (BBC) World Service is the world's leading international broadcaster. Surveys indicate that it is regarded, by its listeners and viewers around the globe, as the most trusted broadcaster compared to its local, national and international rivals. Both World Service Radio and World Service Television have been at the forefront of broadcasting on sustainable development and environment issues. A good example of this is the BBC World Service Radio Education Department's major initiative *Green World*. This programme involved the creation and transmission of 25 series of radio programmes, produced in 22 languages, which examined the hopes and fears for the environment together with possible solutions - numbering some 249 individual programmes, covering 40 countries. The *Green World* initiative was on air for four months between September and December 1996. As a result, vital information was

conveyed to millions of listeners who otherwise have little or no chance of accessing such information from any other source. *Green World* has received support from international organizations and individuals such as Jonathon Porritt and David Attenborough - both Global 500 winners. More than 50,000 special leaflets were mailed to environmental agencies and NGOs and the project was also promoted through the Internet. Feedback from listeners already suggests a very positive response to the various series, and many NGOs are now using copies of the programmes for their own educational and awareness training.

#### **CESTA**

Centro Salvadoreño de Tecnología Apropiada  
Apdo 3065  
San Salvador  
El Salvador  
Tel: (503) 225 6546  
Fax: (503) 226 6903  
E-mail: Cesta@curomaya.com

Centro Salvadoreño de Tecnología Apropiada (CESTA) is the most influential environmental institution in El Salvador. Founded in 1980, it has a staff of 60 and a membership of 3,000. It has an environmental page in a national newspaper and a quarterly journal. CESTA has stopped the destruction of the El Espino Forest which would have affected water availability to the 1.5 million inhabitants of the capital, and saved the El Pescadito de Oro waterspring from being exploited by Government and industry. It has stopped 3 million tons of ash and 400 tons of used tires from being brought into the country. CESTA has a school which develops technologies to improve sanitation, reduce energy consumption, improve nutrition and make transportation environmentally-friendly. Thousands of bicycles, pedal-powered garbage collectors, water pumps, solar cookers and dryers, water filters and environmentally-friendly roof tiles have been produced. CESTA has Eco Centres in 21 communities involved in garbage recycling, reforestation, water cleaning, reduction of soil erosion, harvesting and processing of medicinal plants, production of biodegradable pesticides and firewood-saving stoves and turtle harvesting. CESTA has created a forest in the name of the 75,000 people who died during the war. Thanks to CESTA, there is now a legislative department, an ombudsman, an attorney and a police force dealing with the environment, and laws on agro-chemicals, industrial effluents, wildlife protection and the use of unleaded gasoline.

#### **Joon-Yuep Cha**

Earth Eco Friends  
90-7 Wui-Dong  
Gangbook-Ku  
Seoul  
Republic of Korea  
Tel: (82-2) 730 1338/722 5407  
Fax: (82-2) 730 1339

Joon-Yuep Cha is an environmental activist and chairman of the Earth Eco-Friends movement in Korea which he set up to encourage the Government to join the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) - a step which he deemed important since the tradition in Korea is to use the parts of a number of endangered species for medicinal

purposes. Cha succeeded when Korea joined CITES in October 1993. During the ninth session of CITES in Florida, he went on a hunger strike to encourage his Government to protect wildlife. As a result, the Asia Conservation Alliance (ACA) was formed. In the spring of 1991, he went on another hunger strike to protect an 800-year old ginkgo tree at the foot of Mt. Pukhan in Northern Seoul which was going to be cut down to make way for high-rise apartments. Thanks to his efforts, the height of the apartments was lowered to allow the tree to bask in enough sunshine, and two buildings were not constructed in order to allow enough space for the roots to grow. He also initiated a movement to protect Kwangnung Arboretum, home to the Korean Redheaded Woodpecker, which was going to be yet another victim of the boom years in Korea. He organized some 20 non-governmental organizations to protest the construction of a 19-story apartment building and an amusement park. As a result, the development plans were abandoned, and the Government has begun a study to determine whether special legislation is needed to protect the Arboretum.

#### **Ki-Chel Choi**

Korean Fresh Water Fishes Conservation Association  
465-8 Sewoo  
B/D Jangan 3-Dong  
Seoul  
Republic of Korea  
Tel: (82-2) 877 7994  
Fax: (82-2) 212 1817

Ki-Chel Choi was an educator for 40 years until he retired from Seoul National University in 1976. He taught his biology students with great passion, and as a result produced generations of students who have changed the course of biological studies in Korea. At 87, he is still active. In 1993, he founded the Korea Fresh Water Fish Conservation Association. As Chairman of this organization, he leads the country's movement to conserve fresh water fish. The *Brachmystax Lenok*, which was in danger of becoming extinct from pollution and over-fishing, has been saved since Choi undertook steps to prohibit the fishing of this species and to protect its habitat. Choi has extended his movement to save rivers and streams. In 1993, he led the movement to save the Han River which has been widely acclaimed. In 1995, he succeeded in artificially incubating the *Fugu Ocellatus* by discharging 40,000 of this fish off the shores of Kanghwa Island. He has been involved in research which has contributed to the country's development. He supervised the Yangyang Pumping Water Power Plant Project and analyzed its effect on underwater ecosystems, thus contributing to the harmonization of environment and development. He regularly holds exhibitions on fresh water fish, and has lectured extensively at various institutes, as well as at primary, middle and secondary schools. He has inspired and guided the nation to protect the environment and fresh water fish in particular.

#### **Lilian Corra**

Fundación Proteger  
Belgrano 3569  
C.C. 550  
3000 - Santa Fé  
Argentina  
Tel: (54-42) 535 339  
Fax: (54-42) 552 293  
E-mail: aamaisde@satlink.com  
lcisde@arnet.com.ar  
or  
Asociacion Argentina de Médicos por el Medio Ambiente,  
AAMMA  
Mail address: Bulnes 2057 - 5F  
Ciudad de Buenos Aires  
CP (3000)  
Argentina  
E-mail: isde.al@infovia.com.ar  
lcisde@arnet.com.ar  
aamma@ciudad.com.ar  
Website: www.aamma.org

Dr. Lilian Corra is a medical doctor with a strong commitment to environmental education and protection. She was one of the first doctors in Argentina to highlight environmental factors which can cause diseases. She has also promoted environmental epidemiological research in order to reach an accurate diagnosis and to offer preventive action. She is an active participant in environmental education activities focusing on environmental health, both in Argentina and abroad. Since 1993, she has been a member of the International Society of Doctors for the Environment which comprises some 40,000 members. In 1992, she founded the *Asociación Argentina de Médicos por el Medio Ambiente* (Argentine Association of Doctors for the Environment), and is today its president. In 1991, she co-founded the *Fundación Proteger para el Desarrollo Sostenible y la Salud Proteger* (Foundation for Sustainable Development and Health). She is a member of the International Society of Environmental Epidemiology and of the Global Environmental Epidemiology Network. She has participated in a number of international fora, including the Earth Summit (Brazil/1992), City 93 (Belgium/1993), and Food and Human Health (Germany/1994). Since 1991, she has been co-presenter of *Salud Para Todos* (Health for Everyone) - a pioneering radio programme on environment and health.

#### **Zsuzsa Foltanyi**

Environmental Partnership Foundation  
Moricz Zs. KRT. 15 I/1  
H-1117 Budapest  
Hungary  
Tel: (36-1) 166 8866  
Fax: (36-1) 166 8866  
E-mail: okotars@pship3.zpok.hu

Zsuzsa Foltanyi is an expert in environmental protection, waste water and toxic waste treatment. She first worked as a design engineer, then as a journalist and columnist for a scientific bi-weekly. The real change in her life occurred when she became, in 1986, a member of the ELTE Nature Conservation Club - a non-profit organization where she organized forest-saving actions and co-edited the publication *Nature Conservation*. She was also a volunteer for the Danube Movement and worked with Slovak and Austrian groups to protect wetlands around the river. In 1989, she was one of the initiators of a major Earth Day event, and as a result became a Board Member of the Earth Day Foundation in Hungary. She was also co-editor of the Hungarian version of the

State of the World report, published by the World Watch Institute. In 1990, she became project manager of the Panos Institute, Budapest and edited its publication *Panos Feedback*. In the same year, she founded the Energy Club, an alliance of Hungarian NGOs, whose aim is to develop sustainable energy policies and promote the efficient use of energy resources. In 1991, she initiated an East/West conference on energy and edited a book based on the proceedings and translated it into Czech, Hungarian, Polish, Romanian and Russian. She was director of the Environmental Partnership Foundation, which provides technical assistance, small grants and training to grassroots groups. She has been on the Board of various Central and Eastern European NGOs.

#### **Jane Goodall**

The Jane Goodall Institute for Wildlife Research,  
Education and Conservation  
P.O. Box 599  
Ridgefield, Connecticut 06877  
United States of America  
Tel: (203) 431 2099  
Fax: (203) 431 4387

In 1967, Jane Goodall established the Gombe Stream Research Centre in the United Republic of Tanzania. For 35 years, her behavioural and ecological projects, focusing on wild chimpanzees and olive baboons, have provided insight into the lives of non-human primates. In one of her many observations, which amazed the world, Jane Goodall documented chimpanzees making and using tools - a behaviour previously believed to separate humans from other animals. In 1977, she founded the Jane Goodall Institute for Wildlife Research, Education and Conservation (JGI) to provide ongoing support for field research on wild chimpanzees. The Institute directly supports or contributes to many programmes and projects including: field research activities based at the Gombe Stream Research Centre; the Chimpanzee Programme - an international research project dedicated to the study of chimpanzees living in zoos and other captive settings; sanctuaries for orphaned chimpanzees located in the Congo, Kenya, the United Republic of Tanzania and Uganda which provide support for the rehabilitation and conservation of chimpanzees; and an international environmental education and humanitarian programme for youth, entitled 'Roots and Shoots', which promotes hands-on activities which lead to a better understanding of environmental, animal and community issues in more than 30 countries. Jane Goodall's tireless dedication has brought wildlife conservation and environmental issues to the attention of millions of people around the world.

#### **Edward Solon Hagedorn**

City Government of Puerto Princessa  
New City Hall Building  
Santa Monica Heights  
Puerto Princessa City 6300  
Palawan  
Philippines  
Tel: (63-48) 433 2249  
Fax: (63-48) 433 2028  
E-mail: hagedorn@pal.oni.com

Edward Solon Hagedorn was elected Mayor of one of the Philippines' largest cities, Puerto Princessa, in 1992. Immediately upon taking office, he showed that he was a different breed of politician. He is the first Filipino political leader to make environmental protection the centerpiece of his administration. Through his Princessa Watch Program, he stopped the degradation of the City's terrestrial and marine resources caused by logging,

slash-and-burn farming, blast, trawl and cyanide fishing. As a result, these resources have been restored. This Programme has earned the City numerous awards, including the Earth Day Award, the Best-Governed Local Government Award and the Macli-ing Dulag Environmental Award. The Operation Plan Cleanliness Program is another project, which has earned Puerto Princessa the distinction of being the country's cleanest and greenest city. Mayor Hagedorn has demonstrated that even in a Third World country, an environmental agenda can gain the support of both the people and the policy makers. Having inculcated the environment into the national consciousness, as a means towards sustainable development, many of his programmes are being replicated by other local governments around the country. Mayor Hagedorn's success in environmental management has earned him the Development Management Award of the Asian Institute of Management and the President's Heritage Award. Puerto Princessa is today considered a model city and the country's tourism capital.

#### **Sang-Hyun Kim**

100-30 Chancheon-dong  
Seodaemun-Ku  
Seoul  
Republic of Korea  
Tel: (82-2) 788 2104/ 337 4177  
Fax: (82-2) 788 3721

Sang-Hyun Kim spent two years in prison for resisting the regime of the Park Administration and its attempt to rule for a fourth term. The year following his release, in 1975, he founded the first environmental NGO in Korea - The Environmental Protection Institute. As founder and chairman of the Institute, National Assemblyman Kim initiated the environmental protection movement across a broad sector of society. In 1993, he founded the Group for Environment and Life with 62 other Assemblymen from the ruling and opposition parties. The Group conducted water analyses of the four major rivers in Korea, and based on the findings recommended measures and policies to improve their condition. In 1994, he established the National Assembly Environmental Forum. As its chairman, he initiated water tests of the Imjin river and its groundwater system. Using the gruesome results as leverage, he influenced the State's policies. The Forum has proposed 10 bills on water purification; groundwater protection; waste treatment; and environmental effects assessment. In 1996, the Groundwater and Waste Treatment bills were passed by the National Assembly. Kim developed an educational programme, through the Environment Academy, which he also founded and chairs. In 1994, Kim founded Green Cross Korea, which has organized two International Environment Symposia in Seoul. Green Cross is also working at the university level to increase environmental awareness and encourage young people to act.

#### **Theo Manuel**

National Water Conservation Campaign  
P. O. Box 9052  
Cape Town  
Republic of South Africa  
Tel: (27-21) 650 2448/637 9724  
Fax: (27-21) 650 4046  
E-mail: tmanuel@botzoo.uct.ac.za

Theo Manuel has been working on an environmental project with a local community in one of the most disadvantaged areas of Cape Town. He is largely responsible for the rehabilitation and management of the Wolfgat Nature Reserve which comprises a strip of coastal vegetation with a representative patch of fynbos plants. Much, if not most, of this region is threatened with habitat

destruction. The Reserve of 248 ha, the second largest in the area, is located between two townships comprising 1.5 million people, and the pressures of human numbers and poverty are acute. After its establishment 10 years ago, the Reserve became steadily degraded. More than 200 plant species and a number of animal species are largely endemic to the area. The 'saving' of the Reserve is entirely Manuel's doing, and reflects an exceptional degree of initiative and leadership on his part. He has rehabilitated and developed the Reserve in a manner that benefits the community. Manuel's accomplishment is all the more notable because he is disabled from a spinal cord injury, and finds difficulty in simply walking around with crutches. He has shown a high degree of professional commitment and personal courage. He is an example to his peers, and as a Cape 'coloured' he has bridged an ethnic gap between several communities. His project is well known in the Republic of South Africa and he has inspired other individuals and groups to look at their own urban landscapes to find ways of protecting their environmental resources.

#### **Kook-Hyun Moon**

Yuhan-Kimberley  
Sampoong Apt 9-1207  
Seocho-Dong, Seocho-Ku  
137-070 Seoul  
Republic of Korea  
Tel: (82-2) 591 7126/ 528 1720  
Fax: (82-2) 528 1851

Kook-Hyun Moon, President and CEO of Yuhan-Kimberly, has been a leader in environmental protection activities in Korea for more than 20 years. He initiated the Keep Korea Green campaign, the first environmental protection campaign undertaken by a private company in the country. This campaign has influenced the private sector's concern for the environment. Since 1984, he has donated part of his Company's annual profits to the National Forestry Cooperative Federation. The funds have been used to plant and nurture some 17 million trees in natural forests, and to build a 30 km path which facilitates the afforestation process. Since 1985, he has initiated and organized environmental education programmes for the public, including a tree planting event for newlyweds, a green camp for teenagers and a tree observation event for elementary school students. Since 1994, he has been responsible for the distribution of books on environmental education to schools around the country. Since 1994, he has donated approximately half a million dollars to colleges, research centres and environmental organizations for research and development activities. Since 1974, his Company has had environmental management systems in place. Some US\$ 20 million has been invested in environment-friendly product design and processing and for installing and operating advanced environment-friendly technologies. His Company is the first sanitary paper industry in Korea to receive the ISO 14000 certificate.

#### **The Nation Newspaper (Thailand)**

44 Moo 10, Bangna-Trat Road  
Bangna Phra Khanong  
10260 Bangkok  
Thailand  
Tel: (66-2) 317 0420  
Fax: (66-2) 317 2074/317 2077  
E-mail: jfahn@nation.nationgroup.com

*The Nation* newspaper of Thailand has a tradition of publishing ground-breaking stories on the environment. Over the years, a number of environmental journalists have written bold reports that were ahead of their time. In 1993, *The Nation* formalized its

commitment to the environment by printing a weekly environment page. James Fahn was appointed environment editor of the Earth Focus page, which contains: a lead story which reports on anything from herbal medicine to the latest energy efficiency technology; a foreign story on the environment; and a column which recaps weekly events in Thailand or the region. An overdose of alarming and negative stories tends to dull readers, thus *The Nation* made a conscious effort to also write more upbeat stories. The stories of which they are proudest are investigative pieces which have a significant impact. One the most controversial dealt with the construction of a hotel in southern Thailand which may have encroached on a national park. In another case, the Government revoked the license of a company after they revealed that it was importing radioactive waste from the United States of America. Following *The Nation's* report on a Japanese aid package to Cambodia, which included 40 tons of pesticides, the Japanese Prime Minister, who was in Thailand at the time, announced that he would look into the matter. The pesticides were subsequently impounded. *The Nation's* most ambitious task, however, is the attempt to make the newspaper's coverage of all events more 'green'.

#### **The Swire Group**

Swire House  
21/F Cityplaza 3, Taikoo Wan Road  
Taikoo Shing  
Hong Kong  
Tel: (85-2) 2535 1488  
Fax: (85-2) 2855 8305/2590 7502

The Swire Group of Hong-Kong is a multi-national company which believes in sustainable development and improved quality of life. It strives to: reduce the quantity of polluting substances, minimize the impact of its activities on the neighbourhood; increase the use of environment-friendly materials, equipment and technology; ensure that suppliers take into account the Company's environmental beliefs and discourage dealings with those who do not; and encourage the widest possible environmental awareness amongst its staff, their families and the public. Cathay Pacific, a Swire subsidiary, is replacing its aircrafts with models which will reduce CO<sub>2</sub>, CO, NO<sub>x</sub> and SO<sub>2</sub> emissions; has recycling schemes for paper and aluminum; has introduced paperless contracts for aircraft leasing and financing agreements by using computer software and CD-ROMs; and is replacing non-recyclable plastic in-flight items with recyclable or bio-degradable ones. Swire Properties only use timber from sustainable forests. Swire Coca-Cola Hong Kong has been granted one year's exemption from paying Government trade effluent surcharges as its waste water is so clean. Hong Kong Aircraft engineering has replaced a chemical cleaning agent with an environment-friendly one to clean aircraft parts. Swire Pacific provides environment-friendly bags in its Marathon Sports and Athlete's Foot stores. The Swire Group produced a video to raise environmental awareness amongst its employees, and it sponsors projects such as tree planting.

#### **Ube City**

1-7-1 Tokiwa-Cho  
Ube-shi, Yamaguchi Prefecture 755 8601  
Japan  
Tel: (81-836) 34 8245  
Fax: (81-836) 22 6016  
E-mail: info-envi@city.ube.yamaguchi.jp

Ube is an industrial city of 175,000 people centred around a century-old coal mine, which closed in 1967. Since the 1940s, coal, cement and chemical factories have been a significant source of pollution in the area. Ube City established a committee,

comprising university professors, industrial leaders, citizens and city officials, to clean the polluted air. The Committee decided to have industry install dust control equipment and to have the City and citizens purchase water sprays for road cleaning, and to promote the planting of greenery and flowers as part of a post Second World War recovery plan. Ube City is considered a leader in the scientific approach to air pollution control using epidemiology, pollution monitoring, engineering, operation, management and investment by industry, and information and education by mass media. The area's comprehensive pollution control plan started in 1976 with a series of mid-term plans which included the installation of a sewerage system, a night soil treatment plant and urban incineration plants. A recycling centre with classes for consumers recently begun operation and automatic, mobile and manual monitoring systems for air, water and noise were installed to verify compliance with quality standards. About 50 volunteers monitor odours from surrounding chemical plants. The airport plan was adjusted based on the advice of the City Environment Council, and in 1971 a joint emergency task force was established by the City's fire department and industry to cope with plant accidents and oil spills.

**Jan C. Van der Leun**

Ecofys, Kanaalweg 16G  
 NL-3526 KL Utrecht  
 The Netherlands  
 Tel: (31-30) 280 8361  
 Fax: (31-30) 280 8301  
 E-mail: j.vanderleun@ecofys.nl

In the 1970s, few were aware of the depletion of the ozone layer. Today this phenomenon is at the forefront of the global environmental agenda, thanks to the work of Professor Jan C. van der Leun, among others. He has played a pivotal role in the assessment of ozone depletion on both human and animal health. Professor van der Leun of The Netherlands understood early in his scientific research that ozone depletion, with its potentially grave long-term consequences, needed immediate attention from the global community. He keenly evaluated the effects of ultra-violet (UV) radiation on skin, and more specifically the correlation between UV rays and skin cancer. As co-chairman of the Panel on Environmental Effects of Ozone Depletion since 1988, he has presided over the process to bring together all the facts available

on the adverse impact of ozone depletion on the planet's ecosystems. It is this Panel's report which persuaded governments to agree to phase out, within a specific timeframe, the consumption of ozone depleting substances. As a result, the chemical industry is working on the development of alternatives to these substances, and in a most unusual turn of events, the actual progress is now ahead of the political agreements. Since 1993, Jan C. Van der Leun has been Professor Emeritus at Utrecht University in The Netherlands, and from 1972 to 1993, he was Head of the Photodermatology Unit at the Institute of Dermatology at the same University.

**Xialu Township**

c/o State Environmental Protection Administration of China  
 No. 115 Xizhimennei Nanxiaojie  
 Beijing 100035  
 People's Republic of China  
 Tel: (86-10) 6615 3366  
 Fax: (86-10) 6615 1768

Xialu, a 52 sq km town in China's Zhejiang Province, has a population of 18,000. The town has made great socio-economic and environmental progress since the 1980s. Some of the achievements include the development of an environmental education programme to raise people's awareness of environmental issues, and the publication of a book entitled *Ecological Construction*. They have included environmental courses in all primary and middle schools, and have organized a number of activities such as ecological gardens and ecological farms. They have rehabilitated the forest and improved vegetation in the area by setting up forest management systems and reducing activities, which put pressure on forests. As a result, more than 70 per cent of the town has been reforested and many of the animals have returned and the water quality has improved. In addition, experimental gardens using modern agricultural methods have been established, and as a result soil fertility has improved and crops returned to the paddy fields. Pesticides use has also declined. The town does not allow industries, such as tanneries, printing and dyeing mills and cement plants, which pollute heavily, to be set up in the area. Waste from industry and the community are collected and recycled. All of these activities have improved the lives and increased the lifespan of the town's residents.

## YOUTH

### The Oposa Group

Oposa Law Office  
1807 Cityland 10 Tower 1  
6815 Ayala Ave. North  
1227 Makati  
Philippines  
Tel: (63-2) 816 6775/817 7088/813 2656  
Fax: (63-2) 812 6775  
E-mail: oposa@gaia.psdn.iphil.net

In March 1990, Juan Antonio, Anna Rosario and José Alfonso Oposa, represented by their parents and 40 other children from all geographic regions of the Philippines sued the Department of Environment and Natural Resources for its ecological neglect on behalf of their generation, and for generations yet unborn. The case was based on the fact that the timber licence agreements issued by the Department covered 3.9 million hectares of virgin forest when, according to the records, there were only some 800,000 hectares of virgin forests remaining. In June 1991, the Regional Court dismissed the case without trial on the ground that the children did not have the legal personality to sue. However, the counsel elevated the case to the Supreme Court. In July 1993, the Supreme Court rendered a decision in favour of the children's environmental claim for ecological balance. This case has given birth to the doctrine of "generational genocide" and has set a precedent in environmental law.

### Carolina Garcia Travesi

Club Ecologista  
Force to Restore Our Gaia Society (FROGS)  
15 Allende #301, Col. Centro, Co. Victoria  
87000 Tamaulipas  
Mexico  
Tel: (52-1) 312 6645  
Fax: (52-1) 312 5496

At 15 years of age, Carolina Garcia Travesi of Mexico is an old hand at addressing large groups as she travels around the world exuding energy and hope for the environment. Her interest in the environment began at the age of eight when she attended a class at her school entitled 'Ecology and the Consumer'. From then on, she set herself on a path to explore the environmental issues of our time and what she could do to make a difference. In 1991, Carolina founded the *Club Ecologista*, a group of school children committed to taking action on behalf of the environment. Their efforts focused on educating children and their families about recycling, water conservation, tree planting, among others. Contact with the media and governmental agencies expanded her scope. In 1992, the President of Mexico designated her as a Youth Representative to the Earth Summit in Brazil. In 1993, Carolina attended the Earth Restoration Corps Teen Training in Colorado, and was the main speaker at the Sacred Earth Conference. That same year, she was the recipient of the Windstar Youth Award, and she initiated the creation of another organization - Force to Restore Our Gaia Society (FROGS) - in the hope of expanding the network of youth doing environmental work. She has written articles in numerous publications and has had hundreds written about her.

### Health Messengers Association

P.O. Box 38-49  
Bucharest  
Romania  
Tel: (40-1) 330 8263/313 1551  
Fax: (40-1) 330 8263/313 1551  
E-mail: hm\_association@hotmail.com

The Health Messengers Association of Romania, comprising young people between the ages of 8 and 16, deals with health and environmental issues. The projects, which they have undertaken, have had a significant impact. Their Children against Smoking Campaign forced the broadcasting authorities in Romania to stop the publicity of tobacco products and they collected more than 10,000 signatures for an anti-tobacco law. They led a campaign to Save the Trees on Dr. Obedenaru Street, which forced the Government to investigate the matter and to stop the cutting of the trees. Through their Botanical Adoption Programme they found sponsors to rebuild the botanical garden. Their Spaceship No. 2044 project involved putting into the ground, for 50 years, a capsule, which includes a report about the state of the environment in 1994 and promises to improve it. Their Endangered Species Great March was undertaken in the name of plants and animals which they are committed to protecting. The street rally included the Mayor, the Minister of the Environment and many other important dignitaries. Through their Cleaning the Springs project, the children decided to clean 31 mineral water springs. Currently, they are working with the sanitation authorities to transform Sibiu town into a healthy area. They are working on a radio programme to educate patients in hospital about the environment. They are also involved in educational training courses and workshops, and participate in live radio and TV programmes.

### Young Leaders

The Royal Bank of Trinidad and Tobago Ltd.  
Corporate Marketing Department  
Royal Court, Park Street  
P. O. Box 287  
Port of Spain  
Trinidad and Tobago  
Tel: (809) 623 1322  
Fax: (809) 623 2081

The Young Leaders Programme of The Royal Bank of Trinidad and Tobago was created in 1991, though its roots date back to 1981. The aim is to help young people develop leadership skills, learn the value of working as a team and develop projects, which benefit the community. Today, almost every secondary school in the country, as well as youth groups, vocational centres and cadet forces participate in Young Leaders. Students are given six months to complete a project under a theme. In 1996, Young Leaders chose 'The Environment: 21st Century - The Future in Our Hands'. Some of the projects undertaken included paper, glass and plastic recycling schemes, tree planting, cleaning of beaches, rivers and parks, beautifying school compounds, creating jewelry and other utility items from driftwood, paper and other waste materials, and wildlife exhibitions. The Bank had a difficult task in choosing a winner from the many exemplary projects. The Williamsville students project, however, stood out. Inspired by the drowning of a student and his sister when the garbage-choked Guayacare River overflowed, the school decided to clear the River. The students spoke to villagers, undertook research on water pollution and tested the quality of the water. They wrote newspaper articles and produced TV programmes and posters. Signs were erected and the people signed petitions, which were presented to the Government to prevent further dumping. Systems were put in place ensuring the continuity of the project.

## 1998 GLOBAL 500 LAUREATES

### ADULTS

#### Aga Akbar (deceased)

The Kabul Zoo was once a showpiece in Asia with spacious cages set along a tranquil river bank. It is in ruins now, a sad monument to the fighting in Afghanistan. When this was written only a few animals were left, among them a blind lion and a lame black bear maimed by shelling. They are looked after by Aga Akbar, a lanky zookeeper who lived 18 terrible months on the front line rather than abandon his charges. Strolling along a rocket-blasted path, Akbar passes a stretch of rubble and notes that those were enclosures for the animals he loved. He recalls the long months in 1993/1994 when the zoo was smack in the middle of the front line. Outside the gates of the zoo, soldiers hunkered in a maze of trenches. Tanks parked at the entrance fired at their enemies across the street. Through the worst of the fighting, Akbar stayed. He spent hours huddled beneath a slab of stone waiting for the rocketing to stop. He never left because he loved these animals. The front line is now on the southern outskirts of Kabul, and the relative peace has been a chance for him to clean-up the zoo. Hundreds of pieces of unexploded ordinance have been hauled away, a mountain of shrapnel swept up, and a half dozen anti-personnel mines removed. Still living on the grounds, Akbar devotes his time to the survivors – two lions, four bears, two wolves, two wild boars, several monkeys and some rare birds. They are his family. What Akbar lacks in expertise, he makes up for in compassion.

#### Mike Anane

President League of Environmental Journalists,  
P.O Box 2062  
Accra  
Ghana  
Tel: (233-21) 236806  
(233-24) 656632  
Fax: (233-21) 310028  
E-mail: lejcec@ghana.com  
mikeanane@yahoo.com

Mike Anane, an environmental journalist, has helped to raise environmental awareness in Ghana. As editor and environment writer of the *Triumph* newspaper (1991-1995), his gutsy articles brought to the fore the alarming rate of environmental destruction in the country. His campaigns calling for the closure of an asbestos products factory shook the country's Environmental Protection Agency (EPA) and the Ministry of Environment from their slumber. His articles, particularly those dealing with toxic waste, earned him many enemies who threatened his life. Undaunted, he went on to challenge the Parliament and EPA to investigate the matter. Their inquiry concurred with Anane's position and they recommended that the culprits be punished. His writings caught the attention of the British High Commission and he was awarded the British Chevening Scholarship for further studies. Upon his return, he wrote a book *Covering the Environment – A Guide to Environmental Journalism in Developing Countries* whose aim is to encourage journalists and editors to report on the environment and to make these stories interesting to the public. He also established an International Centre for Environmental Journalism based in Accra, which seeks to motivate the media to take a more serious interest in the environment. As founder of the League of Environmental Journalists in Ghana, he organized workshops to

equip journalists to report on the environment since neither of the two media training institutions offer courses in environmental reporting.

#### Dr. Stephen O. Andersen

Director, Strategic Climate Projects  
Atmospheric Pollution Prevention Division  
Mail Code 6202J, Environmental Protection Agency  
401 M. Street, S.W.1300  
Washington, D.C. 20460  
United States of America  
Tel: (1 202) 564 9069  
Fax: (1 202) 565 2135  
E-mail: Andersen.Stephen@epamail.epa.gov

Stephen Andersen's accomplishments in ozone protection encompass problem solving, public education and community involvement. He conceptualized and implemented the UNEP Technology and Economic Assessment Panel, which he continues to co-chair and which has become a model for independent, international and technical assessment. He put together teams of experts from governments and industry to work with developing countries on ozone protection, laying the groundwork for technology-sharing and multilateral financing. He catalyzed the involvement of national military programmes, defense contractors and space agencies to develop and implement solutions to ozone protection, including new approaches to revising military procurement. He has brokered agreements between industry and environmental groups to facilitate technically and economically successful replacements of ozone depleting chemicals in diverse industries including food packaging, oil production and automobile air conditioning. He developed an award programme to promote individual, governmental and corporate efforts to protect the ozone layer. His work has broadened to encompass climate change, and he has already brought about an agreement between the United States and the Japanese Governments and industry to promote alternatives to perfluorocompounds in semiconductor manufacture. He is the recipient of awards from the Sao Paulo State, UNEP, the Mobile Air Conditioning Society and the International Cooperative for Ozone Layer Protection.

#### Dr. Melih Boydak

I.U. Orman Facultesi  
80895 Bahcekoy  
Istanbul  
Turkey  
Tel: (90-212) 226 1812/1813  
Fax: (90-212) 226 1113

Dr. Melih Boydak, Dean of the Faculty of Forestry, Istanbul University, has devoted the last 30 years of his life to the protection of the environment. He has explored numerous forests in Turkey and discovered various unidentified species of flora. He identified the rare Phoenix "sp" forest which was in danger of disappearing due to development. He reported the matter to the District's Governor, and as a result the development was stopped. Through the Arboretum Project, which he coordinates, he succeeded in protecting the *luqidambar orientalis* and other species of flora. He has brought together 26 non-governmental organizations in Istanbul whose collective aim is to protect forests, nature and the country's culture. He was co-chair of the XI International Forestry Congress, and he is also the founder of the

International Foresters Association. He led the legal struggle to prevent the improper use of forest areas. He succeeded, in collaboration with other foresters, in applying an inexpensive afforestation method where trees are planted in calcareous areas. After the initial success in the pilot 1,000 hectares, the same process was replicated in a similar land area of 10,000 hectares, and today this land is once again covered with cedar trees. He has undertaken research to develop ways of creating forests and combatting desertification in the arid parts of the Central Anatolian Region.

#### **Valeriy Demyanenko**

Ecological Education  
460 Shevchenko Street  
18006 Cherkassy  
Ukraine  
Tel: (380-472) 43 36 80  
Fax: (380-472) 43 23 54  
E-mail: demyane@chiti.uch.net

Valery Demyanenko, a lecturer in ecology at Cherkassy Engineering and Technology Institute, has been a leader in the environmental movement in Cherkassy and throughout the Ukraine for more than 25 years. Thanks to his efforts, the regional non-governmental organization (NGO) Ecology and Education was established in 1994. He has helped publish more than 8,000 textbooks and teachers bulletins and developed a number of pedagogical methodologies for children of all ages. In collaboration with NGOs, he has put into practice a number of ideas, which have contributed to environmental awareness and to a more environmentally-conscious society. His NGO's goals include distributing environmental information throughout the region, establishing broad environmental regulations and setting up environmental courses in various institutions. His NGO has succeeded in introducing an in-depth environmental programme in high schools, in transforming seven high schools into "ecological schools", and in organizing two international conferences on ecology and education.

#### **Dr. Sylvia Earle**

Deep Ocean Exploration and Research  
12812 Skyline Blvd.  
Oakland, California 94619  
United States of America  
Tel: (510) 530 9388  
Fax: (510) 530 3660

Sylvia Earle's PhD dissertation "Phaeophyta of the Eastern Gulf of Mexico" created a sensation in the oceanographic community in 1966. Never before had a marine scientist made such a detailed first-hand study of aquatic life. Since then, she has made a lifelong project of cataloguing every species of plant that can be found in the Gulf of Mexico. She has led more than 50 expeditions, and has authored some 70 publications. In 1969, she participated in the Tektite project where scientists lived for weeks in an enclosed habitat on the ocean floor 50 feet below the surface. By this time, she had spent more than 1,000 research hours under water, more than any other scientist who participated in the programme. In 1970, she led the all-female Tektite II expedition. With the aim of making the public aware of the damage being done to the aquasphere, she became an outspoken advocate of undersea research, and began to write for *National Geographic* and to produce books and films. In 1979, Earle walked untethered on the sea floor at a lower depth than any human before or since. She travelled 1,250 feet below the ocean's surface off the island of Oahu, and then detached herself from the vessel to explore the ocean floor. In 1982, she started Deep Ocean Engineering and

Deep Ocean Technologies which design and build undersea vehicles, which make it possible for scientists to manoeuvre at depths that defy existing technology. She is the recipient of many international awards and has been the subject of many articles and TV programmes.

#### **Yasuo Goto (deceased)**

Yasuo Goto, chairman of the Yasuda Fire and Marine Insurance Company and a business leader always includes the environment in his company's policies. Since 1994, more than 3,000 people have participated in environmental awareness courses, organized by Yasuda in collaboration with non-governmental organizations (NGOs). Yasuda has reduced the use of natural resources by implementing a practical management system. In November 1997, its computer center was the first financial institution to be certified in conformity with ISO1401, and today it is providing other organizations with the know-how to get certification. In 1992, he led the Japan Federation of Economic Organizations (KEIDANREN) delegation to the Earth Summit – where he represented some 1,000 companies. Soon after, the Keidanren Nature Conservation Fund (KNCF) was established and Goto appointed Chairman, KNCF has supported 71 conservation projects implemented by NGOs in 23 countries. In 1993 and 1996, he attended the IUCN Congress where KNCF activities were lauded as an excellent example of partnership between business and NGOs. KNCF hosts seminars, addressed by leading environmentalists from around the world, to educate Japanese leaders on nature conservation. At the Kyoto Conference in December 1997, KNCF and the World Bank co-sponsored a symposium. Goto is Chairman of the Common Agenda Round Table of Japan, which held a workshop in May 1997 on environmental awareness and education where recommendations were formulated and presented to the cabinets of the United States and Japan.

#### **Greening Australia**

P. O. Box 74  
Yarralumla  
Act 2600  
Australia  
Tel: (612) 6281 8585  
Fax: (612) 6281 8590  
E-mail: bpeck@greeningaustralia.org.au  
mthomas@greeningaustralia.org.au  
swood@greeningaustralia.org.au

Greening Australia is a national, community-based organization working with Australians to establish, rehabilitate and manage Australia's vegetation. Since 1982, it has developed and implemented vegetation programmes for four national governments. Activities include the National Tree Programme and the One Billion Trees Programme through which more than 800 million trees have been planted, sown through direct seedling or protected so they could regenerate. In 1996/1997, Greening Australia protected or regenerated 8,194 hectares of remnant vegetation and planted 5,000 hectares of trees and shrubs. Greening Australia encourages Australians to change the way they think about vegetation, and this has been achieved through grassroots activities. For example, during a 12-month period in 1996 and 1997, Greening Australia's 200 strong staff worked with 3,000 landcare and community groups and more than 500 local government organizations; conducted 300 public presentations, delivered more than 8,000 hours of training to landowners, schools, councils and community groups; organized activities attended by more than 28,000 people; and handled 22,000 requests for information. Greening Australia stimulates community and

business support which adds value to government funding by a factor of at least four, through funding, materials, equipment, skills, time, labour and land use.

**Dr. Jae-Bum Kim**

4th Floor, Kipun Building  
200 Nae-Ja-Dong  
Chong-Ro Ku  
Seoul 110-053  
Republic of Korea  
Tel: (82-2) 723 3627  
Fax: (82-2) 738 8714  
E-mail: jbkcom@nuri.net

Prof. Jae-Bum Kim is one of the most active leaders of the environmental movement in the Republic of Korea. His activities began when he used his scuba diving skills to clean rivers and streams and by convincing fellow divers to become part of the environmental movement. In 1991, he set up and became Executive Director of "The Clear Water Revival" organization, which initiated an underwater clean-up campaign. As a professor of journalism at Hanyang University, he also realizes the importance of educating young people about the environment. In 1994, he formed the Green Family Movement through which green activities are undertaken by schools, from kindergarten to universities. Today more than 40,000 students in 316 schools are active members of this movement. As Secretary-General of this organization, he initiated cooperation with a number of international environmental organizations, including the United Nations Environment Programme (UNEP). He made it possible for young people to participate in UNEP activities such as World Environment Day (WED), the Global Youth Forum and the International Children's Conference. He formed the UNEP National Committee for Korea, which contributed greatly to the success of WED '97 and the Global Youth Forum. He is active in promoting environmental awareness through both print and electronic media, and he has convinced Korea's Educational Broadcasting System to air environmental programmes every week.

**Feodor Konyukhov**

International Club  
Starovagankovski per. 5/17  
121019 Moscow  
Russian Federation  
Tel: (7095) 222 8326  
Fax: (7095) 206 5198

Feodor Konyukhov is an environmental globetrotter who only uses environment-friendly modes of transport, such as sailboats, bicycles, skis, sleds and balloons, to reach his destination. His aim is to promote the sustainable use of the Earth's natural resources and the ethics of living in harmony with nature. Konyukhov is currently sailing solo around the globe in a campaign to clean-up the oceans from plastic garbage. He is one of the few people to have reached both the North and South Poles, crossed the Arctic Ocean, climbed Mount Everest, sailed twice around the globe, and cycled across Asia and Europe. All of this in an effort to raise environmental awareness and to bring attention to emerging global and regional environmental issues. He is the founder of a school for young travellers in the Far East of Russia and of the International Club in Moscow. He has built two churches, written several books, and is also a member of the Russian Painting Academy.

**Yuri Mikhailovich Luzhkov**

Mayor of the City of Moscow  
4 Osenniaya Street. Corp.2, App.7  
Moscow  
Russian Federation  
Tel: (7095) 292 7238/229 4887  
Fax: (7095) 203 6912

Yuri Luzhkov, mayor of the City of Moscow, is a leader committed to sustainable urban development and whose campaign promises have already begun to materialize. He has removed environmentally unsafe industries from the capital, and established an environmental procurator's office as well as a special police department for environmental protection for the Moscow region. He has contributed to the stabilization of air pollution from cars by improving fuel quality, the equipment used by municipal transport by installing catalytic converters, and the flow of traffic by altering the City's routes. He has placed a full ban on the use of leaded fuel and has set new standards on the construction of ring highways, which must meet certain environmental requirements. He also established a new policy whereby the use of coal in thermal power stations and by large industries has been replaced by natural gas. As a result, carbon dioxide emissions have been reduced significantly. He has enforced the law requiring the renewal of purifying systems in industrial plants and has changed the way in which galvanic processes are undertaken and centralized the use of galvanic waste, thus reducing the level of heavy metals in the Moscow River. He introduced environmental education in the City's secondary schools and institutions of higher learning.

**Yongshun Ma**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

Yongshun Ma was a lumberman in Heilongjiang Province of China. When he retired in 1982, many people encouraged him to relax during his last days. His response was always "I cannot until I have paid off a debt". As a lumberman, he suffered from a sense of guilt, and reproached himself that if he had not overlogged, if he had paid more attention to protecting the environment, there would not have been so much environmental degradation. He decided to devote the last part of his life to the protection of the environment, and to plant 36,500 trees to make up for those he had cut down. He calculated that the difference would be 8,180 trees beyond the 28,320 trees he had planted over the last 21 years. Every season, people would see him planting trees. In 1991, when he reached the age of 78, he counted that there were around 1,000 trees left to pay off his debt. He convinced all of his family – 16 people spanning three generations – to plant trees on holidays. At the end of that spring, his debt was paid off. By 1996, he had planted 40,000 trees and built a breeding base for trees of high quality. Motivated by his actions, more and more people in the region are planting trees each year and the forest is growing at an ever increasing rate. He has taught others how to breed and plant successfully, and under his guidance, his students' tree planting efforts have a success rate of 95 per cent. Today, at 84 you can still see Yongshun Ma, spade in hand, stirring the black soil, planting trees.

**Anne Mearns**

P. O. Box 13562  
Northmead 1511  
Benoni, Gauteng  
Republic South Africa  
Tel: (27-11) 965 1027  
Fax: (27-11) 965 1027  
E-mail: a.mearns@absamail.co.za

Anne Mearns has worked for more than 15 years to improve the environment of her community. In September 1982, she established Wilger Veld and Youth Conservation Clubs in approximately 50 schools throughout South Africa. From 1982 to 1997, more than 6,000 children joined the Club whose membership has expanded to include branches in England as well as other countries in Africa. In 1989, she began a tree-planting project through which more than 5,300 trees have been planted to date. The same year, she contacted the Council of Benoni to rehabilitate the Bullfrog pan, which was filled with rubbish – at a cost of more than 5 million Rand. The pan is back to its normal status and she and the youth saved some 50,000 bullfrogs from tarred roads and put them back in wetlands. In 1990, she organized a Wetland Symposium for councils in Gauteng Province, which was attended by some 300 people. In 1992, she began a community vegetable garden project in the townships. In 1996, Mearns wrote an environmental policy for the Greater Benoni City Council. In January 1997, she completed a management plan for two wetlands, and in April, she established the Greater Benoni Environmental Society. She has appeared on numerous TV and radio programmes and has been profiled in several newspapers and magazines. She is the recipient of a number of awards including the President's Trophy from Keep South Africa Beautiful, the Visionary Award from the Benoni Aurora Rotary Club, and the Van Ryn Rotary Award for service above self.

**Don Merton**

c/o Department of Conservation  
P. O. Box 10420  
Wellington  
New Zealand  
Tel: (64-4) 526 8042  
Fax: (64-4) 526 8042  
E-mail: donmert@xtra.co.nz

As an officer with the New Zealand Department of Conservation, Don Merton roams the forests of the world devising plans to improve the survival of bird species facing extinction. He has contributed to the rescue of more than a dozen, including the Mauritan echo parakeet, the Chatham Islands black robin and the New Zealand saddleback. No other conservationist in the world has been directly involved in as many bird rescue programmes, said Bird Life International, the global agency responsible for bird conservation. In the Seychelles, he helped devise techniques to save the magpie-robin from extinction. Slow breeders that often feed on the ground, the birds had been decimated by feral cats. By November 1992, despite a successful programme to eradicate predators, their numbers dwindled to 25. Conservationists turned to Merton, and after observing the robins, he discovered that the native vegetation in the birds' habitat had virtually disappeared and the forest did not provide enough safe nesting places. He suggested adjustments to supplementary feeding, positioning of nesting boxes and how to exclude other species from food and nesting sites. Over three years, the species made a spectacular recovery and today there are some 60 robins in existence. In Australia, Victorian zoologists are using management techniques

modelled on Merton's to rescue the helmeted honeyeater. In 1994, the Royal Society for the Protection of Birds awarded him a medal for his contribution to species survival.

**Dr. Zygfryd Nowak**

40-540 Katowice  
Szpakow 25  
Poland  
Tel: (48-32) 513 489  
Fax: (48-32) 513 489  
E-mail: polccp@woiz.polsl.pl  
Website <http://www.programme.org.pl>

Dr. Zygfryd Nowak stands out as a champion of cleaner production – the preventive environmental strategy aimed at reducing pollution before its generation. His technical knowledge and his political astuteness combined with his energy, foresight and humour have resulted in change. In 1989, he attended the United Nations Environment Programme's (UNEP) first High Level Seminar on Cleaner Production. Impressed by the cleaner production potential, he started promoting it in Poland. His achievements include: the completion of the 31st training programme of the Polish Cleaner Production School (each session trains 25-30 companies, for a total of 1,025 cleaner production experts from 512 manufacturing companies and from 240 service sector companies); the application of more than 125 companies for a Cleaner Production Certificate citing that they have introduced an environmental management system on this particular strategy; and the reduction of environmental loads in electricity, heat and water consumption, solid waste, gas and waste water disposal which have led to an estimated annual savings of US\$4.5 million. To catalyze cleaner production in Poland, he established the Policy Cleaner Production Movement, which promotes management systems, which use cleaner production as a tool. He was Chairman of the Economic Council of the Governor of the Katowice Region, Plenipotentiary for Clean Production to the Polish Minister of Industry and Trade and President of the Cleaner Production Club.

**Oeuvre de Bienfaisance pour Haiti (OBH)**

21, rue Seymour Pradel  
Jacmel  
Haiti  
Tel: (509) 57 6131  
Fax: (509) 57 4131

Ninety-five per cent of Haiti's surface was once covered by forests. Today, this has been reduced to a paltry 0.5 per cent. Oeuvre de Bienfaisance Pour Haiti (OBH), established in 1992 and supported by the European Commission, aims to prevent soil erosion by planting once or twice a year 25,000 to 30,000 trees; strengthen the position of women; provide the peasants with a sustainable income; promote the use of neem seeds; and to control deforestation. To date, 225,000 trees have been planted, namely neem and casuarina, and despite the area's arid climate (500 mm per annum), more than 100,000 trees are still growing reaching heights of up to eight metres. Other achievements include a marked decrease in soil erosion; the use of some trees as lumber; the use of seeds for medicinal and other purposes; payment of the same wage to both men and women, counter to Haitian tradition thereby increasing in the social status of women; and bringing to public notice the ecological benefits of the project. OBH consistently holds discussions with the peasants and provides information to counter the traditional belief that "the tree is the enemy of the peasant". By paying for the planting and watering of the seedlings and the leasing of the land, OBH also provides employment for women, which not only helps them support

themselves and their children, but also boosts their self-confidence and independence. In future, OBH hopes to provide additional income by encouraging the production of neem-oil as a natural insecticide and to control woodcutting.

**Yiannakis D. Potamitis**

P. O. Box 395  
53 Riga Fereou Street  
3604 Limassol  
Cyprus  
Tel: (357-5) 36 39 56  
Fax: (357-5) 36 39 56

For more than 40 years, Yiannakis Potamitis has been one of the most active environmentalists on the island of Cyprus. He has spent much of his life establishing environmental pressure groups

and clubs. It is generally accepted that it is through his work that people in Cyprus have become aware of the need to protect the environment. In 1949, he founded the country's oldest environmental organization, Orivatikos Nature Friends Association, which has 120 registered member organizations with thousands of followers. In 1972, he became President of the Environmental Committee of Limassol, which he also founded. He is the first President of the Federation of Environmental and Ecological Organizations of Cyprus, which was established in 1988 at his initiative. He was the leader of the campaign, which saved the main green area of the coast of Limassol from development. He is also the initiator of the campaign whose aim is not only to protect the coastal environment but to prevent any construction on the coast and to keep the beaches open to the public. In an effort to raise environmental awareness, Potamitis has written hundreds of articles and has given numerous lectures on the environment. He has also given countless radio and TV interviews on pressing environmental issues.

## YOUTH

### **P. B. K. L. Agyirey-Kwakye**

Project Director  
Youth Club for Nature Conservation  
P. O. Box AD130  
Cape Coast, C/R  
Ghana  
E-mail: ycnc@hotmail.com

In March 1994, Agyirey-Kwakye, a then secondary school student with some experience in tree planting and farming, due to his association with his forester father, moved to Kumikrom in Asamankese District where the main occupation of the young people was the cutting of wood for fuel. Upon his arrival there in 1994, and knowing that the community did not have any knowledge about tree planting and the need to reforest felled areas, he set up a nursery with various species, but primarily eucalyptus trees. When the seedlings were ready for planting, he set up an agroforestry demonstration farm by planting between the trees plantain, pawpaw and cocoyams. He gave some of the trees to landless farmers for planting. Six months later, when it was time to harvest, the trees had grown significantly. This created the impression in the community that tree planting was possible and that results could be achieved quickly. In 1996, he organized a group of farmers, including 23 women, who were interested in planting nitrogen-fixing trees which they could use for firewood and as forage for their livestock. He supplied 14 farmers with 2,000 eucalyptus seedlings, which they planted on their farms. By the end of 1996, 290 farmers had submitted their names to be supplied with seedlings. He is preparing to supply 10,000 seedlings to farmers in 1998. All of these activities have contributed to renewable energy, soil conservation and environmental education.

### **Ecole Propre/Ecole Verte**

INRAP, B.P. 823  
Conakry  
Guinea  
Tel: (224) 46 25 01  
Fax: (224) 46 27 07/(1 212) 278 9085  
E-mail: laminbarry@yahoo.fr

*Ecole Propre/Ecole Verte* is an environmental education programme, which was created in 1992, as a pilot project, in four primary schools in Conakry, Guinea. Today, the project has taken root in 92 schools with 20,000 students participating. Its objectives are to: encourage schools to play an active role in promoting hygiene and environmental protection; to get students to spread the environmental message in their schools, families, neighbourhoods and villages; and to encourage parents and the community to take action. Through their ecological clubs, the students ensure that the classrooms, latrines and yard are clean, and that flowerbeds are well managed. They control the sale of food around the school, and educate the community using plays, films, debates, radio and TV programmes and competitions. They

publish a bulletin which is distributed to 25,000 subscribers regionally, nationally and internationally, and the content, including articles, cartoons, word and visual games, all dealing with the betterment of the environment, are produced by the students. This programme has elicited great interest from a number of organizations, including the Canadian Study and International Cooperation Centre, which manifest their support by giving financial aid. Regular awareness campaigns and practical demonstrations are also held by the students. The success of this programme is evidenced by the concrete actions, which have been undertaken by parents and students alike. Under the banner *Ecole/Quartier*, the project has expanded to include other districts and villages.

### **Hellenic Marine Environment Protection**

Association (HELMEPA)  
5 Pergamou Street  
Nea Smyrni  
171 21 Athens  
Greece  
Tel: (301) 934 3088/934 1233/932 6277  
Fax: (301) 935 3847  
E-mail: helpmepa@ath.forthnet.gr

The Hellenic Marine Environment Protection Association (HELMEPA) Junior aims to promote the voluntary participation of children, between the ages of eight and 15, in the protection of seas and beaches. HELMEPA has an education programme, which operates in 12 geographical areas of Greece. With the support of the Ministry of Education, HELMEPA implements its programme whereby students are organized into groups of 10 and are asked to execute during the year, 12 of the following activities: voluntary clean-ups of beaches, lakes, rivers or streams; recycling of cans, paper or glass in their schools; creation and dissemination of information material; presentations at schools or at parent associations; publication of a newsletter; writing letters to the local press; presentation of group activities to the media, dissemination of information material to visitors in their area; cooperation with other HELMEPA Junior groups; creation/distribution of posters; production of audio materials with environmental messages; development of comic books starring seabirds and other marine animals; production of a weekly or monthly radio show; and conducting polls among the local population. HELMEPA produces a newsletter, which reports on the progress of the groups, and provides teachers with updated information on the marine environment and its integration into the curriculum. HELMEPA set up a permanent and mobile exhibition. More than 170,000 children have visited the exhibit to which they are transported free of charge.

### **“Leave It To Us” Junior Board**

Alfriston  
East Sussex, BN36 5XN  
United Kingdom  
Tel: (44-1323) 870 406  
Fax: (44-1323) 870 406

The idea of holding an International Children's Conference on the Environment in Eastbourne, England in October 1995, came from

the Junior Management Board of a local zoo park. This idea was supported by Eastbourne Borough and the East Sussex County Councils, which won the support of the United Nations Environment Programme (UNEP) and eventually secured a major sponsorship from British Airways, whose contribution included the provision of free flights for delegates around the world. Some 800 children from 90 countries attended the Conference. They presented and discussed environmental projects they developed, devised and debated "challenges" to the United Nations and national governments, and participated in study tours and workshops on environmental themes. It was accompanied by an extensive exhibition/display area open to delegates and the general public, and a week long festival organized by the Borough Council and local business for local children and visitors. During the planning of the conference a Junior Board was established to work closely with the conference sponsors and organizers. This Board comprised members from local schools, foreign nations and played a vital role in developing the Conference programme, selecting facilitators, devising workshops and study tours. They also introduced and chaired sessions, organized and presented the environmental "challenges" and attracted media interest. Today, the Conference is being considered as a regular event on the global environmental scene.

#### **Akima Paul**

Diamond Street  
Victoria, St. Mark's  
Grenada  
Tel: (1 473) 444 8625  
Fax: (1 473) 440 7192

Fifteen-year-old Akima Paul's concern about the state of the environment forced her to speak out. She began by using newsletters sent out by Friends of the Earth, as a way of passing on the environmental message. She wrote bold articles about the lack of care for the beaches of her Caribbean Island, Grenada, and the excessive use of plastic and the cutting down of trees. She then became an official member of Friends of the Earth and enthusiastically participated in all their activities. She wrote articles for almost every issue of their newsletter, *The Environmentalist* on a myriad of issues affecting her corner of the

world, including coastal and water pollution. Her strong point is that she talks and writes, with great conviction, about issues which are close to the hearts and minds of the Caribbean people, young and old alike. In addition, to heighten Grenadian awareness, she shares her views on radio, in inter-secondary school debates and through calypso and poetry. All of this she does with the philosophy "the consciousness of well-doing is ample reward".

#### **Red Scarf Environmental Protection Action Group**

Changsha Wangyue Second Primary School  
c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

Wangyue Primary School was set up in 1989. In 1991, at the suggestion of the students, the Red Scarf Environmental Protection Action Group (RSAG) was created. Once a week, the pupils leave the school grounds to observe their environment, analyze pollution problems and propose solutions to the polluters and the Government. In 1992, RSAG discovered that a lot of wastewater from a brewery was being discharged into the Xiangjiang River without being treated. This situation was reported to the local environmental protection agency, and at RSAG's suggestion and under its supervision, a waste water treatment station was built. There was a time when there were 10 garbage dumps in the Wangyue residential area, which contaminated the environment. RSAG noticed this and proposed to the area committee that the rubbish be packed locally and collected. As a result, the situation was changed and dealt with appropriately. In 1996, RSAG initiated a movement to wipe out "white pollution". Under their leadership, the movement spread throughout the school, the district and city. More than 10,000 students took part and the district government prohibited the use of all plastic foam dinner sets. RSAG has also carried out activities dealing with environmental education and summer camps. They have written essays on the environment, which have won awards at the provincial and city level. In 1998, Wangyue was chosen as an environmental education model by the Environment Protection Agency of Hunan Province.



## 1999 GLOBAL 500 LAUREATES

### ADULTS

#### **Bebe Arcifa Khan-Ajodha**

125 de Montagnac Drive  
Palmiste, San Fernando  
Trinidad and Tobago  
Tel: (868) 652 5724 or 628 8042  
Fax: (868) 628 9122  
E-mail: [bajodha@ema.co.tt/bajodha@hotmail.com](mailto:bajodha@ema.co.tt/bajodha@hotmail.com)

Bebe Arcifa Khan-Ajodha of Trinidad and Tobago has mobilized entire communities and spurred an entire nation to act. She introduced the concept of environmental education in the country, which today is included in the social studies and science curricula. She developed and implemented plans for long-term conservation and she coordinated an area study of San Fernando Hill, which had been denuded by illegal quarrying. She devised a comprehensive environmental education policy for the Environmental Management Agency, which was presented to the cabinet in 1998. She has prepared and produced posters and brochures on oceans, vehicle emissions and lead poisoning. She has conducted workshops with curriculum facilitators to produce an environmental activity booklet for children. She compiled a glossary of environment terms for the Ministry of Planning and Environment, which was distributed to all schools in Trinidad and Tobago. She prepared a draft syllabus for San Fernando's Technical Institute on Environmental Management, and she is a part-time lecturer on science and environmental studies at Corinth Teachers College. She was appointed a member of the Wildlife Conservation Committee, which advises the Minister of Agriculture on wildlife conservation. She has launched a number of environmental clubs in schools, and in 1997, she was nominated Woman of the Year for her work on the environment.

#### **All-China Women's Federation**

c/o State Environmental Protection Administration of China  
No. 115 Xizhimennei Nanxiaojie  
Beijing 100035  
People's Republic of China  
Tel: (86-10) 6615 3366  
Fax: (86-10) 6615 1768

When International Working Women's Day (March 8) was marked in 1990, the All-China Women's Federation launched its Green Engineering Programme. Six years on, the programme has attracted the support and participation of both urban and rural women throughout the country. Every year, the Federation organizes 120 million urban and rural women to take part in voluntary tree-planting activities. To date, 4.2 billion trees have been planted. In 1995, during the Fourth World Conference on Women, some 500 pine and cypress trees were planted in Huairou, near Beijing in an effort to express friendship and unity among all women of the world. Since 1993, supported by the Ministry of Forestry and through their Green Engineering Programme, the Federation has set up similar tree planting efforts in 22 cities and counties in 16 provinces. In urban areas, women have planted trees and grown grass to make cities more green and beautiful. The Federation has also helped some 80 million women to attend training courses on applied new technology in forestry. In five

provinces, namely Hubei, Jiangxi, Zejiang, Hunan and Guangxi, the women have planted trees on 193,000 hectares, fruit trees on 37,300 hectares, and transformed 2,500 low-yield hectares by planting tea oil trees. Through the All China Women's Federation and the Green Engineering Programme women have played a significant role in afforestation and environmental improvement activities in China.

#### **Vilmar Sidnei Demamam Berna**

Inst. Bras. De Voluntarios Ambientais  
Trav. Concalo Ferreira 777 (Casarao da Ponta da Ilha)  
Bairro Jurujuba  
Cidade Niteroi  
RJ CEP 24370-290  
Brazil  
Tel: (55-21) 2610 2272  
Fax: (55-21) 2610 2272  
E-mail: [vilmarberna@jornaldomeioambiente.com.br](mailto:vilmarberna@jornaldomeioambiente.com.br)

Vilmar Berna, journalist and author, has greatly contributed to raising environmental awareness in Brazil. In 1982, he founded *Univerde* - an NGO based in Sao Goncalo, Rio de Janeiro State. His achievements include the implementation of the Forest Brigade, which until his involvement existed only on paper. His participation in the struggle to remove a dumping site in Sao Goncalo, within a protected area was decisive. The dumping of waste threatened the mangrove and thanks to his efforts this activity was stopped. In 1988, Berna helped found and became President of the NGO *Defensores da Terra* (Earth Defenders). Through this organization, he succeeded in: preserving 3,000 hectares of Atlantic Forest, creating the Serra da Tiririca State Park; passing the Bill that regulates motor saws and guns and enacting a law that guarantees the right of 15,000 native people to live in Conservation units in Rio de Janeiro, thus helping to preserve their ecosystem. Berna has also succeeded in addressing the need for regular and accessible information on environmental policies and actions by founding, in January 1996, the *Jornal do Meio Ambiente* - a monthly bulletin, which is now considered basic reference for environmental issues in the country. He has also played a key role in environmental education for young people by writing several books on the environment. His publications include 10 titles with 500,000 copies sold in schools in Brazil and throughout Latin America.

#### **Mr. Kenneth L. Chamberlain**

Orchard Stables, Higher Hadspen  
Castle Cary, Somerset BA7 7LX  
United Kingdom  
Tel: (44-01963) 350 616  
Fax: (44-01963) 351 810

During and after his career with the Pacific/Asia Travel Association (PATA), Kenneth Chamberlain demonstrated his commitment to the environment and played a leading role in putting the tourism industry on the path to sustainability. He joined PATA in 1974 as Director of Development, and he was one of the first professionals to view tourism as a potentially damaging activity for the environment. He worked towards better integration of environment and development and took steps to implement more sustainable tourism long before the concept became popular. He helped raise environmental awareness within the tourism

industry by organizing, with Europa Nostra, a series of Tourism and Heritage Conferences in Asia and the Pacific. Appointed CEO of PATA in 1979, he played a leading role in the creation of the PATA Foundation, which promotes and financially supports sustainable tourism projects in Asia and the Pacific. In 1990, he became Executive Director of the PATA Foundation concentrating on capacity building and demonstrating how to make conservation an integral part of development. He has cooperated with organizations such as UNESCO, the World Tourism Organization and UNEP on a purely voluntary basis as an expert resource in workshops and seminars through writing articles and by providing advice. He is currently an advisor to UNEP, a member of the World Tourism Organization Advisory Council, a Trustee of the PATA Foundation and advisor to the Himalaya Environmental Foundation.

#### **Global Environmental Action**

Nippon Press Center Building 3F  
2-2-1 Uchisaiwaicho, Chiyoda-ku  
Tokyo 100-0011  
Japan  
Tel: (81-3) 3503 7484  
Fax: (81-3) 3503 6953  
E-mail: [gea@gea.or.jp](mailto:gea@gea.or.jp)

In 1991, Global Environmental Action (GEA) was established as a non-governmental organization (NGO), whose committee comprises decision-makers of high standing in the fields of policy, industry and academia. GEA is continuously playing a key role as an advocate of environmental protection and sustainable development in close collaboration with UN organizations. In March 1992, three months before the Rio Summit, GEA held its first international Eminent Persons Conference on Financing Global Environment and Development in Tokyo in collaboration with the UNCED Secretariat. The results of this Conference, presented to the special session of the Earth Summit for consideration, did much to pave the way for the successful discussions and outcome of the Summit. In 1994, GEA hosted its second international conference entitled "*Tokyo Conference on Environmental Action*" in cooperation with the UN Committee on Sustainable Development (UNCSD). Using the conclusions of this conference as a base, the '94 Tokyo Declaration was sent around the world calling for a deepening international dialogue and global concrete actions, which would contribute to sustainable development. In 1997, to review the implementation of Agenda 21 and provide input to the UN General Assembly at its Special Session, GEA, in conjunction with UNCSD, held its third international conference entitled "*Global Partnership Summit on Environment*".

#### **Sampson Osew Larbi**

House No. A.88  
Twifo Agona C/R  
Ghana  
Tel: (233-42) 35883  
E-mail: [solara552000@yahoo.com](mailto:solara552000@yahoo.com)

Sampson Osew Larbi of Ghana has been encouraging resource-poor farmers to farm by adopting the slash and mulch farming system (SMS) instead of the slash and burn method - all in an effort to reduce the emission of greenhouse gases and to create better atmospheric conditions for farming in the Twifu rural communities. Between 1987 and 1990, he organized 800 farmers, including 120 women, to plant 400,000 cocoa and 20,000 oil palm seedlings using SMS. Between 1994 and 1998, he nursed 200,000 eucalyptus, MPTS and NFT seedlings and supplied them to 250 farmers to plant through SMS without the use of chemical

fertilizers and pesticides, thus creating a balanced ecosystem capable of supporting sustainable agricultural production. In an effort to alleviate poverty, environmental education and training is given to women and the landless to plant vegetables. For 1999, preparations are under way to produce 500,000 eucalyptus, casuarina and NFT seedlings through flying and private nurseries, which will be planted by 600 farmers. Thanks to Mr. Larbi's efforts, plantations of eucalyptus, MPTS and NFT are being prepared for fuel and poles for use by local farmers in order to reduce pressure on virgin forests. His activities have helped conserve soils, control desertification, reduce deforestation and helped protect fauna and flora.

#### **Capt. C. P. Krishnan Nair**

Hotel Leelaventure Limited  
Leela Bagh, Sahar  
Mumbai 400 059  
India  
Tel: (91-22) 836 3636  
Fax: (91-22) 836 7354  
E-mail: [leelachmn.bom@leela.sprintrpg.ems.vsnl.net.in](mailto:leelachmn.bom@leela.sprintrpg.ems.vsnl.net.in)

After a brief stint as a soldier in the Indian army and inspired by the philosophy of Mahatma Gandhi, Captain C. P. Krishnan Nair, started manufacturing handloom garments. He then went on to practice the traditional Indian art of Athithi Sathkar hospitality in the hotel industry. He established "Leela" - the first environmentally friendly hotel in India - where guests are invited to enjoy the beauty of nature. He has invested time and energy by personally growing and looking after a variety of plants, trees and shrubs not only in the neighbourhood, but in the city of Mumbai. Today, even the city slums no longer look like slums. His efforts have motivated the people, particularly the poor, to recognize that they too can brighten their lives by cleaning and greening their environment. His hotel has become a model, which has stimulated the entire hotel industry in India to develop environmentally-sound and sustainable management practices. He has significantly contributed to the greening of the area near the international and domestic airports, and today, tree-lined avenues, flowering traffic islands and road dividers dotted with shrubs beautify the area. Captain Nair is the recipient of numerous accolades, including the Pride of India Gold Award, the Shiromani Vikas Award, the Goa Rattan Gold Award, the Prime Minister's Regional Tourism Award and the Mumbai Civic Award.

#### **Makoto Numata**

Bentencho 74-13, Chuo-ku  
Chiba-shi, Chiba 260-0043  
Japan  
Tel: (81-43) 251 7664  
Fax: (81-43) 251 4930  
E-mail: [nature@nacsj.or.jp](mailto:nature@nacsj.or.jp)

As a member of the Board of Trustees of the Nature Conservation Society since 1960, Dr. Makoto Numata has played a leading role in nature conservation activities throughout Japan. As a member of the Ecology Commission of IUCN, he has carried out scientific surveys and compiled a number of reports. His efforts to save natural forests were rewarded when the Environment Agency designated 15 forests as wilderness areas and the Forestry Agency designated 26 areas as forest reserves. As a member of IUCN's Species Survival Commission, he compiled Japan's first Data Book of Plant Species in 1989 and the Red Data Book of Plant Communities in 1996. As a member of IUCN's Commission on Education and Communication, he led the environment education movement and established the Environment Education Academy in 1990. He was also involved in promoting the World Heritage

Convention and the Biosphere Reserve concept. He has been the Chairman of the IUCN Japan Committee since 1988 and he has been the Chairman of the East Asian Commission on Protected Areas since 1993. He hosted the Second Conference on National Parks and Protected Areas of East Asia and compiled a regional action plan for protected areas in East Asia in 1996.

#### **Pennsylvania Senior Environment Corps (PaSEC)**

c/o Environmental Alliance for Senior Involvement  
P. O. Box 250  
Catlett, VA 20119-0250  
United States of America  
Tel: (540) 788 3274  
Fax: (540) 788 9301  
E-mail: easidit@yeti.crosslink.net  
easidit@crosslink.net  
easi2@crosslink.net

The Pennsylvania Senior Environment Corps (PaSEC) is the first partnership in the United States between the State Department of Aging and Environmental Protection. This private sector programme is the *Environmental Alliance for Senior Involvement (EASI)* - a national non-profit coalition dedicated to increasing the involvement of older citizens in environmental volunteerism. PaSEC's goals are to: increase the involvement of older citizens in local environmental problem-solving; provide quality-controlled environmental information on environmental concerns throughout the state; change the traditional view of seniors from frail to vigorous; improve the health of retired citizens who are not traditional volunteers; use skills and leadership capabilities developed through lifetimes of experience; involve home-bound and frail elderly in productive community activities; and create a sustainable, community-based resource for inter-generational mentoring in a positive, productive setting. In 1997, the year PaSEC was founded, 300 senior citizens volunteered to participate in this project. In the first two years water quality monitoring was undertaken, and some 250 stream sites are being tested monthly for state-identified parameters. Twice a year, the volunteers carry out stream habitat assessment and bio-surveys, and all collected data is entered into an electronic database developed by EASI.

#### **Russian Association of the Indigenous Peoples of the North (RAIPON)**

Suite 527, Korp.2  
37 Prospekt Vernandskogo  
Moscow 117415  
Russian Federation  
Tel: (7095) 930 4468  
Fax: (7095) 930 7197  
E-mail: udege@glasnet.ru

The Russian Association of Indigenous Peoples of the North (RAIPON) was established in 1990 at a Congress of Indigenous People in Russia. With a membership of 190,000 and 29 regional chapters, RAIPON's primary objective is to protect and promote the rights and interests of indigenous people in Siberia and the far east of the country. RAIPON has organized several campaigns dealing with the conservation of forests and animal species. It recently held a seminar for leaders of the 29 regional chapters on environmental problems affecting the traditional lifestyles of indigenous peoples in the Russian North. As a result of this meeting, they prepared the first assessment and action plan for the environment in Arctic Russia ever made by indigenous people. After the seminar, the participants expressed an enormous sense of empowerment and encouragement to do something. RAIPON is a permanent member of the Arctic Council, where it has contributed to the Council's work in protecting the Arctic environment and the

region's flora and fauna. Without their energy the issue of involving indigenous knowledge in protecting the environment of Arctic Russia would have been almost nonexistent.

#### **Verna Simpson**

Director  
Humane Society International  
P.O. Box 439 Avalon NSW 2107  
Tel: (61-2) 9973 1728  
Fax: (61-2) 9973 1729  
Email: vernas@hsi.org.au

Verna Simpson has used her business and marketing expertise to benefit wildlife conservation. In 1981, while managing the largest mail-order company in Australia, she became Director of the newly-founded Fund for Animals Australia (FFA). Within a few years, FFA became the largest membership group in the country, renowned for its work on endangered species, wildlife trade and conservation work in Antarctica. While still at FFA, she raised the funds to set up a TRAFFIC AustralAsia office and a small-grants programme for other non-governmental organizations (NGOs). In 1983, she bought Australia's environmental magazine *Simply Living*, which under her guidance flourished and received two Media Peace Prizes from the UN Association of Australia. As a consultant to the country's premier environmental NGOs, e.g. the Australian Conservation Foundation, the Wilderness Society and Greenpeace Australia, she brought their membership and fund raising capabilities to previously unknown success. She set up Greenpeace's Friends of the Rainbow Warrior scheme, which is today the backbone of the organization's finances. Verna produced two bestseller books: *Environmentally Friendly Household Hints* and *Australia's Endangered Species*. She was a founding director of the Australian Bush Heritage Fund, now Australia's largest non-government purchaser of land for conservation, and the country's most financially prosperous NGO. In 1994, she set up Humane Society International (HSI) and in five years made it one of the largest and most successful NGOs in the country.

#### **Professor Masayuki Tanaka**

Chomeigaoka 6-4-19  
Izumi-ku, Sendai-shi  
Miyagi  
Japan  
Tel: (81-22) 378 6649  
Fax: (81-22) 217 6739

Professor Masayuki Tanaka of Tohoku University in Japan has greatly contributed to the development of climatology and global environmental science, through his research on greenhouse gases (GHG) and aerosols. For more than 30 years, he has been one of the greatest advocates of the impact of climate change. His most remarkable achievement was in establishing the relationship between GHGs and aerosols. His findings form the basis of the methodology used to predict future climate change. His other achievements include: the establishment of a model incorporating a multi-dispersion process in radiation transmissions and its application to determine the relationship between the Earth's temperature, albedo (the reflecting power of an object) and aerosols; the establishment of methodologies for estimating refractive index and size of an aerosol for understanding its temporal and spatial distribution; the clarification of the relationship between aerosol distribution patterns and volcanic eruptions and the scattering of particles from deserts, using air-borne surveys of intensity of direct and dispersive sunlight; the evaluation of radioactive characteristics of heterogeneous clouds, which lead to the denial of abnormal absorption of solar radiation

by clouds; and the establishment of a methodology for measuring the concentration and isotopic ratio of GHG, which enables the mapping of GHG concentration in the Asia-Pacific region. He is the author of several books on climate change, which have led to a better understanding of the issue.

**Toyota Motor Corporation**

4-18 Koraku 1-Chome, Bukyo-ku  
Tokyo 112-8701

Japan

Fax: (813) 3817 9035

E-mail: [masayo\\_hasegawa@mail.toyota.co.jp](mailto:masayo_hasegawa@mail.toyota.co.jp)

[Masayuki\\_sasanouchi@mail.toyota.co.jp](mailto:Masayuki_sasanouchi@mail.toyota.co.jp)

The Toyota Motor Corporation of Japan is increasingly trying to meet the challenges facing our planet by developing vehicles that are environment-friendly. Every aspect of their industry, from research, production, distribution, sales and service focus on sustainable development and the improvement of overall corporate excellence. In December 1997, Toyota introduced Prius to the market, the world's first passenger vehicle in production powered by a 'hybrid power train system'. Prius offers twice the fuel efficiency of conventional vehicles and cuts HC, CO and NOx emissions to about one tenth. Toyota has been one of the most aggressive companies to develop the Fuel Cell Electric vehicle, which has already achieved the high-level performance demonstrated by their prototype car on the test track. Toyota is also very positive towards ISO14000, and all of their sites, including overseas plants, will be accredited within this century. Since the beginning of 1997, Toyota has had an eco-project - a public declaration featuring the importance of ecology-oriented business philosophy.

## YOUTH

### Enviroworks

66 Harvey Street  
Kingston, Ontario K7K 5B9  
Canada  
Tel: (613) 531 0542  
Fax: (613) 531 0322  
E-mail: [enviro@kingston.net](mailto:enviro@kingston.net)

Five years ago, students of the Limestone District School Board collaborated with teacher, Mike Zanibbi, to develop Enviroworks - a programme aimed at addressing the increasing pressure on local landfill sites resulting from construction and demolition waste in the city of Kingston, Ontario, Canada. Enviroworks obtains materials (doors, windows, bath tubs, sinks, etc.) by soliciting households, building contractors and community organizations for such items which it then sells back to people who can reuse them. By lobbying business and community leaders, directing education and awareness campaigns, participating in promotional events and conducting tours of the facility, these students have motivated an entire community to get involved in helping the environment by encouraging them to alter their disposal habits. More than 300 businesses and community organizations and 5,000 residents are now involved in diverting material from landfills every year through Enviroworks. These young people are directly responsible for helping to divert more than 70 tons of construction and demolition waste from Kingston area landfills each year. In the past four years, more than 120 students have been involved in this programme. Enviroworks is the recipient of the Nova Corporation Global Best Award from entries from 13 countries; the National Partners in Education Award; and the L.I.F.E. Environmental Award from the Kingston Chamber of Commerce - the first student-based programme to win a major business award in the city.

### Junior Eco-Club

Junior Eco-Club Secretariat  
Cosmos-Aoyama  
Jingumae 5-53-67 Shibuya-ku  
Tokyo  
Japan  
Tel: (813) 3406 5010  
Fax: (813) 3406 5190

Junior Eco-Club, established in 1995, is a network of more than 70,000 elementary and secondary school students who voluntarily participate in environmental conservation and education activities throughout Japan. Under the guidance of various environmental groups, including the Environment Agency of Japan, this network promotes environment-friendly lifestyles and helps raise environmental awareness in young people, in an effort to achieve a more sustainable society. The Eco-Club consists of action-oriented groups of children between six and 15 years of age. Although guided by one or more adult supporters, the children play the lead role. They select the priorities and set their own goals. They organize annual national meetings where they share information and build on the momentum they have generated. The focus varies from group to group and reflects regional needs and interests, which range from climate change to clean-up campaigns. Their efforts have influenced the community at large, and have inspired members of those communities to collaborate with Junior Eco-Club on various conservation efforts. Participants in this unique Club have also taken a leading role in environmental activities in the community.

### Kruti Parekh

Kruti Eco Foundation  
Subhadra Mansion, 4 Floor  
74 Walkeshwar Road  
Bombay 400 006  
India  
Tel: (91-22) 361 1454 or 369 8457  
Fax: (91-22) 369 8457  
E-mail: [kruti@bol.net.in](mailto:kruti@bol.net.in)

Thirteen-year-old Kruti Parekh, one of the world's youngest girl illusionists, uses magic to pass on the environmental message. She performs in schools and at public functions. Her performances include various demonstrations, for example to illustrate the need to recycle, she turns herself into a paper recycling machine by eating paper and magically reproducing recycled paper. She also tells a child to put a banana peel in her bag and turns it into a bouquet of roses, showing how waste can help beautify one's environment. She is the founder and director of Eco-Foundation, which is collaborating with the Panchvati Green Movement, and has been appointed their official ambassador in Mumbai. She succeeded in involving some 100 schools in the city to participate in the project "Rescue Mission Planet Earth". She represented India at the International Children's Conference on the Environment, held in Eastbourne, England in 1995. She is the director of Eco-Kid Club in Bal Bhavan and has created a vermiculture pit in Bal Bhavan, which transforms garden waste into manure. She uses earthworms as the vehicle for turning garbage into a reusable resource. She has put this principle into practice at her home, in a temple in Mumbai whose monthly waste is more than one ton, and she is planning to adopt a railway station where she would apply her vermiculture approach.

### Water Partnership Project

Eastville Primary School &  
John Graham Primary School  
Cape Town  
South Africa  
Tel: (27-21) 32 8131 or 797 4243  
Fax: (27-21) 391 4060  
E-mail: [conserve@mweb.co.za](mailto:conserve@mweb.co.za)

The Water Partnership Project began in 1997 when Eastville and John Graham Primary schools in South Africa embarked on the "2020 Vision for Water Schools Project". Via this project, initiated by the Minister of Water Affairs and Forestry, schools around the country are ensuring that water resources are protected. The focus is for students to carry out water audits in their schools and homes, as well as of local rivers and lakes. In 1998, the project was implemented in 3,000 schools nationwide, and these two schools embarked on a unique partnership where they learn from each other and which now serves as a role model for other schools. Eastville, located in a poor Cape Town suburb with high unemployment, began with a community garden and a water quality audit. The school's garden involves 200 jobless persons and provides 200 families with vegetables. The garden is also used to produce cut-flowers, which are sold to buy educational materials and to finance the school's water bills. They succeeded in including agriculture in the school's curriculum and inspired similar projects in more than 20 schools and several NGOs. John Graham School, located in a middle class suburb, helped water saving initiatives become part of their curriculum and based on their project, a national school water policy has been developed which will be the basis for water saving activities in schools participating in the 2020 project. The schools are exploring projects dealing with energy, waste and water quality in rivers.



## 2000 GLOBAL 500 LAUREATES

### ADULTS

#### **Andyamathanha Nepabunna Community**

Nepabunna via Copley  
South Australia 5732  
Australia  
Tel: (618) 8648 3764  
Fax: (618) 8648 3742

In August 1998, the Andyamathanha people of Nepabunna set an Australian and international precedent by being the first indigenous community to voluntarily declare 58,000 hectares of their traditional land an Indigenous Protected Area (IPA). The community agreed to manage the Nantawarrina IPA in accordance with IUCN categories 2,4,5 and 6 for protected areas and agreed a management plan, allowing for both sustainable resource use in some areas, and strict protection of landscapes in others. A new concept in Australia, the IPA programme recognizes and allows for the continuation of traditional land and resource management, sustainable development, and the conservation of priority bio-regions. IPAs are recognized by the Australian Government as part of the formal National Reserve System. This is the first time that a protected area in Australia has been formally recognized on the basis of voluntary declaration, rather than legislation. This was achieved through an interpretation of the IUCN definition of a protected area as one which is 'managed through legal or other effective means'. A further five communities in Australia have since declared IPAs, preparing their Plans of Management and IUCN management categories on the Nantawarrina model. Six more communities are likely to declare their lands indigenous areas, bringing a total of 10,103.201 hectares of indigenous-owned land under IUCN conservation management. The process required extensive community planning and consultations, and drew on strong community commitment to managing the landscape based on both cultural and natural conservation values.

#### **Asbjorn Bjorgvinsson**

Laugabrekka 16  
640 Husavik  
Iceland  
Tel: (354) 464 1346/2520  
Fax: (354) 464 2522  
E-mail: icewhale@centrum.is

Asbjorn Bjorgvinsson's promotion of ecotourism and of the whale watching industry in Iceland has resulted in significant social, educational, economic and political benefits to Iceland. Iceland has long played a pivotal role in the controversial whaling industry. Whale watching, a major influence against commercial whaling, has grown by 10.3% every year since 1991, and generates more than US\$ 600 million per year. As a result, whale watching has changed the attitudes of millions of people toward the environment. In 1995, Bjorgvinsson helped set up three whale

watching companies, organized an international workshop, and produced the first annual report on the Icelandic industry, which has grown by as much as 50% per year. His reports have had a significant political impact in Iceland, serving to counter the commercial lobby to reestablish whaling and to have Iceland rejoin the International Whaling Commission. In 1997, Bjorgvinsson left his engineering consulting position in Reykjavik, to establish the Jusavik Whale Center – the first and only whale information center in Iceland. Visitors to his not-for-profit Center doubled in 1999 and have helped Husavik become the center of whale watching in Iceland. Bjorgvinsson's public awareness initiatives have produced a generation of Icelanders who are respectful of the marine environment. An influential media personality, Bjorgvinsson has helped make Iceland the destination of choice for knowledgeable ecotourists. He recently received the Netherlands' Knight of the Golden Ark award.

#### **Chimfunshi Wildlife Orphanage**

c/o Friends of Chimfunshi  
P. O. Box 3555  
Kempton Park, 1620  
Republic of South Africa  
Tel: (27-11) 394 0465  
Fax: (27-11) 394 0465  
E-mail: chimps@yebo.co.za  
Chimps@zamnet.zm

When a badly injured chimpanzee was brought to the Zambian farm of David and Sheila Siddle in 1983, it was not expected to live. It was malnourished, dehydrated and suffering from deep cuts across its face, and its teeth had been smashed in to keep it from biting its captors. Nevertheless, the Siddles decided to nurse the chimp – nicknamed Pal – back to health, thereby establishing a legacy of care and respect that serves as the foundation of the *Chimfunshi Wildlife Orphanage*. Today, Chimfunshi is the largest chimpanzee sanctuary in the world, with over 70 chimps roaming in social groups across 26 acres of free-range enclosures. Rescued from poachers or dilapidated zoos and circuses, the chimps have often suffered horribly, yet are too habituated to return to the wild. Chimfunshi gives each chimp the love and protection it deserves, and never turns an ape away. Chimfunshi exists primarily on donations, yet it is an important bulwark in the fight against poaching, deforestation and the bushmeat trade that threatens wild chimpanzees. The Siddles are outspoken animal rights activists. They educate as many as 30,000 visitors each year about the plight of both wild and captive chimps. They have set up the Pal Award, which is given annually to those who promote chimp issues. The orphanage has also provided valuable information about the re-socialization and rehabilitation of man's closest relative. It serves as a model for the primate sanctuary movement currently sweeping across Africa. In early 2000, Chimfunshi will break new ground when it opens two 500-acre chimp enclosures, which will allow apes to roam through forests, fruit groves, grassland and streams. This setting will be the closest these chimps will ever come to living in the 'wild' again.

**Chumbe Island Coral Park Ltd.**

P. O. Box 3203  
Zanzibar  
United Republic of Tanzania  
Tel: (255-24) 2231 040  
Fax: (255-24) 2231 040  
E-mail: sibylle@chumbeisland.com  
sibylle@twiga.com  
chumbe@zitec.org  
www.chumbeisland.com

The Chumbe Island Coral Park, established in 1992, is the first and only marine nature reserve in Tanzania developed by a private company. Thanks to this initiative, the Chumbe Reef Sanctuary was gazetted in 1994 as a protected area by the Government of Zanzibar. As a result, the Island is now a pristine coral island ecosystem in an otherwise overfished and over-exploited area. For the past eight years, the Park has been and continues to be a conservation area that provides important community benefits and social services to the population of Zanzibar, particularly fishermen and school children. The Project has: secured continued protection of valuable flora and fauna; helped restock locally depleted fisheries; promoted the recovery of degraded coral reef ecosystems; contributed to biological diversity conservation and ecological restoration by a coral reef, which has at least 90% of the scleractinian coral species ever recorded in East Africa; provided a training ground for local people in conservation management; helped create environmental awareness among the fishermen in the area; and provided valuable experience in the financially sustainable management of protected areas; given permanent help to local fishermen in distress; provided a direct source of income to local fishermen; contributed to capacity building of government staff; created unique facilities for environmental education; cooperated with the Harbours Authority to keep the lighthouse functioning; and offered valuable research opportunities for Tanzanian and foreign research institutions.

**Chief Larry Philip Fontaine**

Assembly of First Nations  
Apt. 3-10 Clarence  
Ottawa, Ontario K1N 5P3  
Canada  
Tel: (613) 761 3266  
Fax: (613) 241 5806  
E-mail: jthompson@afn.ca

Chief Larry Philip Fontaine, born in Sagkeeng Ojibway First Nation in Manitoba, Canada, has made outstanding contributions to the protection of the environment and to the transmission of indigenous knowledge. For more than 25 years, he has been working to increase awareness and understanding of Aboriginal peoples both nationally and internationally, and to create mechanisms for aboriginal peoples' active participation in national and international forums. He has served in the Federal Government as Regional Director in the Yukon Department of Indian Affairs and as Deputy Federal Coordinator of the native Economic Development programme. He was Grand Chief of the Assembly of Manitoba Chiefs, and since 1996, has served as National Chief of the Assembly of First Nations in Canada. Chief Fontaine has helped the aboriginal peoples of Canada address the issue of environmental degradation in their communities, and has helped them develop the skills necessary to record, interpret, monitor and solve problems dealing with the protection of their lands and resources. He was instrumental in the establishment of the Center for Indigenous Environmental Resources (CIER) in 1994. An integral component of CIER's success has been its ability to form partnerships between First Nations peoples,

governments, organizations and academic institutions, both at home and abroad. In 1996, he helped develop an innovative and culturally-based Environmental Education and Training Programme (EETP), which provides First Nations individuals, recruited from across Canada, with indigenous and western environmental knowledge and skills. The programme comprises a 15-month class instruction and a three-month field practical, which is held in a First Nation community. Participants are given the tools to engage in environmental protection initiatives on First Nation lands, particularly as they relate to environmental impact assessment, auditing and monitoring. He was instrumental in securing CIER's access to the Traditional Knowledge Working Group Meeting of the Convention on Biological Diversity held in Spain in 1997, and for securing a position as a permanent member of the Convention on Biological Diversity and of the Traditional Knowledge Working Group of the Canadian Federal Government.

**Fuji Xerox Australia**

346 Gardeners Road  
Mascot, NSW 2015  
Australia  
Tel: (612) 9364 5770  
Fax: (612) 9364 5233  
E-mail: heather.pavitt@aus.xerox.co

As a committed environmental corporate citizen Fuji Xerox Australia has solved a significant environmental problem in the area of forest management by developing a recycled copy paper to precise specifications for use in digital equipment. This product development was in response to poor sales of existing 100% recycled papers, which the market deemed to be of poor quality, expensive and unreliable. Fuji Xerox Australia undertook extensive research, together with one of Australia's paper manufacturers, to develop and launch in Australia the first Australian made, cost effective recycled paper guaranteed for use in high speed applications. The paper is made up of 50% recycled waste from Australia's cotton industry – a feature known to significantly strengthen this paper and improve durability – and 35% content from wood pulp from sustainably managed forests. Since its launch in 1997, the paper has experienced rapid growth – greater than all other Fuji Xerox papers sold. It currently represents 15% of the company's total copy paper sales. The results of customers switching from 100% pulp paper to reliable recycled paper is that pressure on forests is reduced and waste, which traditionally would have gone to landfill, is directed for recycling. The company's launch strategy supported the environment with a campaign, which donated 20 cents of every ream of paper sold to local land care environment groups in the region where the paper is made. This money has allowed these groups to embark on projects addressing soil erosion, water salinity and wildlife protection. To date, an additional A\$85,000 has been raised over and above the company's sponsorship of LandCare Australia. A resounding endorsement of the product has been the announcement that the Sydney 2000 Olympic Games will use the 'Green Wrap' product as its official copy paper, with an estimated usage of 34,000 reams of paper.

**Robert M. Hager**

5606 Midwood Road  
Bethesda MD 20814  
United States of America  
Tel: (301) 654 7010  
Fax: (202) 362 2009

Robert M. Hager, a correspondent in the Washington DC bureau of NBC News Network, has been a leader in covering global environmental issues on United States television, and in particular

the issues of ozone depletion and global warming. He has been notably courageous among TV commentators in linking weather and climate events to global warming, and has been a positive and important voice for the environment in the media. His reports, reaching millions of Americans daily on NBC's Evening News, the Today Show and the new MS/NBC Cable News station, have been factual, direct and forceful, always emphasizing a strong and sound environmental component. As a good reporter, Hager believes that the facts must speak for themselves and those facts clearly point to a changing climate. He has been one of the few television voices alerting the American people to this major global environmental problem. In the past year, he has reported on major climactic events, such as Hurricane Mitch and the *El Niño* phenomenon. He related these intense storms to the threat of global warming - while US industry has campaigned against this view and most TV correspondents have largely ignored or downplayed the climate change issue. He reported on the Bush Administration's attempts to deny the problem's existence and their efforts to support industry's views. Hager reported comprehensively on the Environmental Protection Agency (EPA) scandals in the early 1980s when the EPA Administrator, under President Reagan, tried to dismantle much of the Agency's regulatory capacity. Ultimately, she was forced to resign. He covered the Love Canal, Times Beach and other toxic waste crises, such as the Three Mile Island nuclear power plant leak. Every year, since the early 1970s, he has ranked in the top 10 among major TV network correspondents based on frequency of appearance on the evening news, ranking first in 1996 and 1997 and second in 1998. He won an Emmy Award in 1990, and in 1993 he was inducted into the Silver Circle Honor Society of journalists in Washington.

#### **City of Las Pinas**

Las Pinas City Hall  
Pamplona III  
Las Pinas City  
Philippines  
Tel: (63) 871 4343  
Fax: (63) 805 8540  
E-mail: picies@pworld.net.ph

The City of Las Pinas in the Philippines has grown from a sleepy agricultural and fishing community into one of the most highly urbanized cities in Metro Manila. With a population of 494,875, Las Pinas is home to big businesses such as Goodyear, Philips, Sarao Motors, Philippine Standard (Saniware) and Francisco Motors. Under the leadership of its Mayor, Vergel Aguilar, the City has drawn up a blueprint addressing the protection of the environment through legislation and action. With the purchase of 40 compactor trucks and two dump trucks, the City reached its zero-waste management goal. Average daily collection reaches about 700 cubic metres, and after three years of operation and because of its decision to have the operations managed by private contractors, the Government has been able to save about P 140 million. The savings have been used to finance projects, such as the construction of roads, schools, health clinics, day care and nutrition centers and colleges. To encourage the active participation of the communities, the City and the Clean and Green Council conduct a quarterly beautification contest involving the depressed areas of the City. Business establishments are encouraged to join the City Government's Campaign through its Adopt-a-*Barangay* (community) programme. They donate plastic garbage bags for distribution to the different *Barangays*. The City, in cooperation with the MB Villar Foundation, has maintained 70 tree parks cum playgrounds in almost every *Barangay*. Trees and ornamental plants have been planted and landscaped to beautify the environment, and nurseries are maintained. In 1995, an orchid

house was set up and is being maintained by the City Government and the Department of Agriculture. Through the Clean and Green Council, the City has organized a group of environmentally conscious students. Every weekend, all public schools conduct clean up activities in their institution and in surrounding areas. Environmental awareness is also included in the students' subjects, and essay and painting contests and seminars are organized.

#### **Dr. Reuben Americo Marti**

Santa Rosa 840  
5000 Cordoba  
Argentina  
Tel: (54-351) 156 8313  
Fax: (54-351) 424 8016/7  
E-mail: ciudad2000@pownet.com.ar  
Braver@ifam.gov.ar

Dr. Reuben Marti is a professor at the National University of Cordoba and former Mayor of Cordoba, the second largest city in Argentina. He is the author of Cordoba's first Environment Regulation, which established compulsory environment impact assessment (EIA). The regulation, written by Dr. Marti, was used as a model by a large number of regional governments, including Tucuman, Neuquen and Mendoza. Through this regulation, two unprecedented organizations have been created, namely the State Environment Council, open to NGOs and the general public, and the Environmental Brigade of Volunteers. Known in Argentina as the Green Mayor, he empowered citizens and groups and developed an unprecedented green policy. As mayor, he created the Free University of the Environment (the first of its kind in Argentina). This University is open to every citizen, even illiterate ones through its 'University on Wheels' programme and TV documentaries. Most of the 18 TV documentaries are broadcast on cable TV in Argentina, Brazil, Chile, Bolivia and Paraguay. Dr. Marti created the 'Environment Observatory', which includes one of the best equipped laboratories in Latin America, two laboratory trucks and a network of mobile stations. He also created 10 urban parks with a total surface of 190 hectares. During his administration, 300,000 trees were planted, and he promoted the decentralization of the municipal administration, creating nine centers of popular participation. In addition to their administrative role, these centers are used as theatres, markets for handicrafts, gymnastics and training courses. He also developed a more sustainable public transport system and an unprecedented 200 km-long bicycle path throughout the City, as well as a recycling system for home waste, which today covers 60% of the City. He also created a botanical garden. Dr. Marti is President of the Latin American Chapter of the International Union of Local Authorities and Vice-President of the World Association of Mayor Metropolis.

#### **Mei Ng**

119 Repulse Bay Road  
Repulse Bay  
Hong Kong  
People's Republic of China  
Tel: (852) 2812 9088  
Fax: (852) 2812 2111  
E-mail: meing@foe.org.hk

Mei Ng, the first Chinese director of Friends of the Earth Hong Kong, is sometimes referred to as Fa Mulan - a legendary Chinese heroine on the green battlefield. For the last eight years, she has worked tirelessly to defend Hong Kong's endangered environment and to spread the message into China. In 1993, she was appointed by the Hong Kong Government as a member of the Country and Marine Parks Board, which oversees and advises on the

management and protection of 23 country parks and three marine parks, which occupy 40% of the land area in Hong Kong. Ms. Ng led the fight against the illegal encroachment of country parks, the over-expansion of power plants, pesticide use, sewage pollution, air pollution, excessive consumption, government maladministration and non-transparency. She pioneered pre-school environmental education in Hong Kong and China and introduced home-audit and green housekeeping practices to families living in public housing estates. She has established links with more than 60 individuals and organizations covering 30 provinces and cities. She has participated in numerous conferences and has presented various training workshops for cadres, teachers and students. Her new millennium vision is to push for a renewable energy approach in Hong Kong, while championing the sustainability of the threatened Yangtze River, by establishing an ecological monitoring station and community afforestation programme at the source of China's longest river.

**Carlos de Prada**

Alfonso XII, No. 6 2o Izquierda  
San Lorenzo de el Escorial  
28200 Madrid  
Spain  
Tel: (34-918) 906 078  
E-mail: deprada@ctv.es

For more than 11 years, Carlos de Prada, a journalist, environmentalist and writer, has developed radio programmes, which have had a wide-ranging influence in Spain. He is

considered one of the country's greatest advocates of nature conservation among those working in the media. He is also an environmental columnist in *El Mundo* – one of the more influential newspapers in Spain. His articles have bravely exposed serious environmental crimes. Through his radio programmes, de Prada has provided valuable input to solve Spain's water problems by inviting dissident voices on his programmes, which were often silenced in other media more friendly to the establishment. His programmes helped stop the 1993 proposal of Spain's water plan, which was based on the construction of grandiose hydro power works. He has campaigned against numerous projects to build dozens of dams that would have caused serious social and environmental damage. He helped save areas such as Cabaneros, (which is today a national park in the Spanish Mediterranean forest), where the Spanish and OTAN Air Force had planned to set up a dive bombing area. He was instrumental in saving Donana National Park, which had been threatened by a major urbanization plan. His work has also dealt with issues such as waste, clean energy production, biological diversity, forest fires, pollution and the preservation of ecosystems. He is a founding member of the Association for the Recovery of Autochthonous Fauna, whose aim is the recovery of specimens of threatened species and their reintroduction into their natural habitat. De Prada is the recipient of numerous awards, including the National Award for the Environment (1997), the City Council of Madrid Environment Prize (1994), the Castilla y Leon Award for Nature Conservation (1998) and the Friends of the Earth Award (1995).

## YOUTH

### Conservation Volunteers Australia

P. O. Box 423  
Ballarat, Victoria 3353  
Australia  
Tel: (613) 5333 1483  
Fax: (613) 5333 2166  
E-mail: [info@conservationvolunteers.com.au](mailto:info@conservationvolunteers.com.au)

The Australian Trust for Conservation Volunteers (ATCV), founded in 1982, is a national, not-for-profit community organization, whose mission is to attract and manage a force of volunteers in practical conservation projects for the betterment of the Australian environment. ATCV completes more than 4,000 week-long conservation projects in urban, regional and remote areas of Australia each year. Activities range from bush regeneration, tree planting, seed collection, endangered species protection, weed control, flora and fauna surveys, walking trail construction, fencing, environmental monitoring and the protection of world heritage areas. ATCV community participation has resulted in more than 1.8 million trees being planted in 1999, and in more than 7.3 million trees planted over the past 10 years. Community involvement totalled 200,000 project days in 1999 and more than 700,000 days since 1989. To encourage the involvement of young people, ATCV developed and manages the federal government-funded programme Green Corps. Green Corps is a six-month traineeship for 17 to 20 year-olds, which incorporates conservation projects and accredited training. Since 1997, more than 4,000 trainees have completed the Green Corps programme. ATCV is a founding member of the International Conservation Alliance, which brings together organizations working in conservation volunteering, and is a member of the World Conservation Union (IUCN).

### BUNDjugend

Das Wettbüro der BUNDjugend  
Rothenburgstr.16  
12165 Berlin  
Germany  
Tel: (49-30) 797 06610  
Fax: (49-30) 797 06620

“We bet that we can achieve the Government’s climate protection target at our schools within seven months, instead of the seven-year period the Government has set for itself”. This was the bet put to the Federal Minister of Environment in Germany by the members of BUNDjugend, the youth branch of the Association for the Environment and Nature Conservation. A bet the Minister accepted with pleasure. Between May and November 1999, the pupils aimed to save 10 million kg of carbon dioxide, i.e. 10% of the total emissions of their schools. They planned to reach their goal by turning down the heating, air conditioning for short intervals rather than continuously, using energy-saving light bulbs and reducing water consumption. Some schools went further by developing activities in the transport sector and in waste separation and avoidance. Some pupils even installed solar panels, laid out school gardens and covered school buildings with greenery. Younger pupils encouraged their families and friends to get involved in climate protection. The older pupils focused on technical approaches. The Federal Environmental Agency acted as judge and reviewed the results from 20 schools selected at random. Using these results to project those from the 192 participating schools, it determined that the challenger, BUNDjugend, and the 135,000 pupils involved had indeed won the bet. As a result, the German Government, as promised, invited the winner to a big party in Bonn on 17 September 1999. The BUNDjugend initiative can act as a model for future activities involving environmental awareness and education in schools.

### Globetree Foundation

Bergsgatan 2 (3tr)  
112 23 Stockholm  
Sweden  
Tel: (46-8) 652 3527  
Fax: (46-8) 652 2177  
E-mail: [kajsa@globetree.org](mailto:kajsa@globetree.org)

Since its founding in 1982, by Ben van Bronkhorst and Kajsa Dahlstrom, Globetree has worked tirelessly to unite children in caring for their world. Globetree uses theatre and drama as its tools and has science and technology as its platform. Globetree uses the creative impulse to mobilize children and teachers to improve life and the environment. Globetree’s achievements include: curriculum development in Bolivia; ecological parks in Brazil; a university technology center in Indonesia; environmental education and technology in Kenya; GlobetreeNet (a network of children’s advocates); GlobetreeTheatre; and GlobeEye (sound, picture and film archive). When Globetree hosted a meeting of 600 children in Stockholm in 1986 to discuss environmental concerns, water was found to be their common bond. In the ensuing years, Globetree hosted the ‘Sharing Water Ceremony’ in Australia, Bolivia, Brazil, Kenya, India, Indonesia, Ireland, Mexico, Norway and the Netherlands, and at the 1992 World Summit on Children at the UN in New York. These ceremonies culminated in Globetree’s sponsorship of 5,000 young people from 70 countries in the Globe Arena in Stockholm on UN day - 24 October 1998. Their mission was to incorporate Agenda 21 into a group vision of a safe and healed earth, which they called Future Vessel. For the first time in the history of global environmental activity, 200 computers linked the gathered participants with students from around the world. To symbolize their unity, the participants co-mingled water from their countries in a crystal bowl. Since then, 30 more countries have contributed water to this bowl. Sadly, founder van Bronkhorst died three months before his Future Vessel vision was realized.



## 2001 GLOBAL 500 LAUREATES

### ADULTS

#### **Cubasolar**

Cuban Society for the Protection of Renewable Energy  
20# 4113 3/41 y 43  
Playa  
Ciudad de La Habana  
Cuba  
Tel: (537) 40 52 60  
Fax: (537) 54 51 35  
E-mail: sol@colombus.cu

Cubasolar is the Cuban Society for the promotion and respect for the environment and of renewable sources of energy. Created in 1984, this non-governmental organization has 616 active members and provincial delegations. Cubasolar's projects, based on the sustainable use of renewable sources of energy, entail finding solutions to local problems with the help of experts in the field. Many of the projects, such as the electrification of rural communities, the fight against desertification in the San Antonio del Sur Valley, the rehabilitation of Camilo Cienfuegos City School, the rehabilitation of the River Sagua Basin and the establishment of medical clinics and schools, have had a great impact throughout the country. These projects have greatly contributed to the conservation of forests and ecosystems, the recovery of saline soils and desert areas, the management of protected areas, the preservation of atmospheric resources, the enhancement of rural health and education systems, and the improvement of human settlements. Cubasolar also supports research and development projects, trains professionals and technicians and disseminates scientific and technical information. It also helps raise awareness of energy use and environmental ethics, through the mass media and the production of publications such as its *Energia y Tu* magazine.

#### **Dalian Municipal Government**

415 Zhongshan Road  
Shahekou  
Dalian  
People's Republic of China  
Tel: (86-411) 273 8558  
Fax: (86-411) 273 8181  
E-mail: diyudalianch@yahoo.com

Until 10 years ago, Dalian was an old industrial city in China. Heavy-polluting factories (petroleum, chemical, textile and cement) were scattered throughout the area, and adversely affected residents. In the early 1990s, the City adopted a new ideology of urban development, and found creative ways of protecting the environment. It achieved this goal by: changing the industrial structure and relocating and upgrading pollution-causing industries; preventing industrial pollution; planting trees; protecting ecosystems; and strengthening legal supervision and management of the environment. Bo Xilai, the mayor of Dalian for eight years, played a leading role in aggressively pursuing this project and ensuring its success. One outstanding achievement was the relocation of 98 pollution-emitting factories from the City to the suburbs. The City convinced businesses to rebuild low-polluting factories and to build modern residential areas with lush

parks and green areas. For those factories not relocated, the City invested heavily in each factory to establish pollution-prevention facilities, and included regulations to control the amount of pollutants in the development plans. As a result, one million of Dalian's two million citizens moved to new residential areas. In 1994, the Government designated the City an Environmental Demonstration Zone. The City proposed that China adopt a master plan for environmental improvement with overseas development assistance from Japan, based on the City of Kitakyushu's experience. Together they undertook a study, which was carried out from 1996 to March 2000. As a result, Dalian included environmental administration and low-polluting manufacturing technologies from Kitakyushu in its policies. The City plans to carry out various environmental projects over the next 10 years and aims to comply with environmental standards equal to those in industrialized countries. The City has gained recognition as one of China's top 10 cities for the integrated control of the urban environment and was honoured as an international Best Model City in the Dubai 2000 competition. The City is also actively promoting improvements in other cities throughout China by hosting the Dalian International Environment Protection Expo.

#### **Environmental Investigation Agency (EIA)**

69 Old Street  
London EC1V 9HX  
United Kingdom  
Tel: (44-207) 490 7040  
Fax: (44-207) 490 0436  
E-mail: eiauk@gn.apc.org  
Info@eia-international.org

The Environmental Investigation Agency (EIA), based in the UK, was established in 1984 to investigate and campaign against the illegal trade in wildlife and the destruction of the natural environment. Working undercover to expose international crime, EIA has brought about changes in international laws and government policies, thus saving the lives of millions of endangered animals and putting a stop to the devastating effects wrought by environmental criminals. Their track record of undercover work, scientific documentation and representation at international conventions has earned EIA a worldwide reputation for highly effective and successful campaigning. Within four weeks of the launch of a major campaign in the UK media, France, Germany, Switzerland and the United States announced an immediate ban on African elephant ivory - a success, which was followed by the international community in 1989. In a series of innovative investigations, EIA proved the existence of a thriving black market in chlorofluorocarbons and halons and named the culprits. As a result, strong measures are being adopted by governments to stop the illegal trade in these substances. EIA uses global investigations, research and campaigns to back up lobbying of governments, organizations and individuals to end the international trade in bear and tiger parts and their derivatives. EIA is currently campaigning for the continuation of the International Whaling Commission moratorium on commercial whaling and an immediate suspension of commercial whaling in Japan and Norway. EIA also documents and exposes illegal activities by timber and plantation companies, and aims to ensure that international investments and demands for timber, paper and other products do not harm forests in any part of the world.

**Dr. Frederick Gikandi**

Ngomongo Environmental & Poverty Alleviation Initiative  
 P. O. Box 88478  
 Mombasa  
 Kenya  
 Tel: (254-11) 221 057/225 775  
 Fax: (254-11) 222 393  
 E-mail: gikandi@ikenya.com

Dr. Frederick Gikandi is a unique environmentalist who for the past 13 years has, on a volunteer basis, undertaken activities to reclaim a large and neglected quarry in Kenya's coastal city, Mombasa. The 40-foot deep quarry located 600 metres offshore and with its floor only four feet above the sea, had been earmarked as the municipality's refuse dump site. Were it not for his efforts, the surrounding urban neighbourhoods would have suffered from air pollution from the decomposing refuse, and the Indian Ocean's coastal and marine ecosystems would have been polluted. With no training in the field of the environment and sometimes against great odds, Dr. Gikandi has rehabilitated the quarry by planting trees and raising environmental awareness through a campaign involving the local population. When the area was completely re-forested, he invited 10 different tribesmen to replicate their rural homes in the small clearings of the new forest. The outcome is now a well-known sustainable eco-cultural tourist village named Ngomongo Village. His campaign involved public meetings, public speaking, and the distribution of flyers throughout the community including to school children and visitors to the village. More significantly, Dr. Gikandi has personally invested some US\$200,000 in his reclamation project, which is serving as a model for other urban and non-urban communities, which are affected by degraded lands.

**Dr. Chan Eng Heng and**

Liew Hock Chark  
 Sea Turtle Research Unit (SEATRU)  
 University College Terengganu  
 21030 Kuala Terengganu  
 Terengganu, D.I.  
 Malaysia  
 Tel: (609) 668 3250/668 3251  
 Fax: (609) 669 4441  
 E-mail: seatru@uct.edu.my  
 ehchan@uct.edu.my  
 hcliew@uct.edu.my, hcliew@pop.jaring.my

Commercial harvesting of sea turtle eggs on Redang Island, Malaysia has provided the islanders with a ready source of income for decades. The local government considers this a right of the inhabitants, and issues annual licenses for turtle egg collection, consumption and sale. This has led to a decline of turtle nesting populations in Redang, to the extent that the turtles now face extinction. Dr. Chan Eng Heng and Mr. Liew Hock Chark, a husband and wife team from the Sea Turtle Research Unit (SEATRU) of University College, Terengganu, have made many appeals over the last few years to the local government to stop issuing licenses for turtle egg collection. Realizing that the appeals were not having an effect, they raised funds from the public to help buy the eggs from the licensed egg collectors for incubation at Chagar Hutun Beach, the main nesting beach in Redang. The eggs are left to incubate in their natural nests and hatchlings are allowed to make their way to the sea to replenish the declining population. Over the last seven years, they have stopped some

250,000 turtle eggs from being sold for human consumption. Thanks to their efforts, 200,000 hatchlings have been released to the ocean from a beach on which hatchlings had never previously been produced. They have adhered to the in-situ incubation concept whereby the eggs are left in their natural nests to develop and are not dug up and relocated to hatcheries. This practice ensures a mixed sex ratio, as well as optimal hatch rates. Dr. Chan and Mr. Liew have also advanced the cause of conservation through research. Their satellite tracking studies have provided the impetus for the development of regional collaborative turtle conservation programmes in South East Asia. Long-term tagging studies of green and hawksbill turtles are generating information on the population dynamics of the turtles, which is vital for assessing and formulating conservation measures. They have also developed a concept called STOP (Sea Turtle Outreach Programme) to enable the public to become involved in sea turtle conservation through a volunteer programme of nest and turtle adoption schemes. They have succeeded in getting a local English daily to run monthly features on their programme in order to reach a wider audience and create greater awareness among the public on the urgent need to save turtles. They have developed a web site to reach a wider global audience and to give greater transparency to their programme. STOP serves as a model to the WWF/Fisheries/BP Amoco turtle conservation project in Ma'Daerah - a turtle nesting area in mainland Terengganu.

**Dr. Jiro Kondo**

Science Council of Japan  
 1-10-5 Nishikata  
 Tokyo  
 Japan  
 Tel: (813) 814 7030  
 E-mail: jstf@mx.mesh.ne.jp

Dr. Jiro Kondo has played a leading role in presenting a number of important policy recommendations to the Government of Japan, particularly in his former capacity as Chairman of the Environment Pollution Control Council (1990-1993) and as Chairman of the Central Environment Council (1993-2000). During that period it was clear that the existing legal framework, which worked mainly by imposing regulations, could no longer deal adequately with emerging complex and wide-ranging environmental problems, such as those caused by the growing number of automobiles, wastewater from different sources, and climate change. Dr. Kondo presented a recommendation in March 1993 on Basic Environmental Law to chart a new direction for Japan's environmental policies. In November 1993, the Law was enacted. Another significant contribution was his recommendation on the measures toward Global Warming Prevention in March 1998, which put together a range of measures to be implemented to achieve the target Japan committed to at Kyoto in 1997. In October of the same year, Japan introduced the world's first law designed to prevent global warming, namely the Law Concerning the Promotion of Measures to Cope with Global Warming. Following his recommendation on the Basic Principles Governing Integrated Measures for Waste and Recycling Management presented in March 1999, the Basic Law for Establishing a Recycling-based Society was enacted in May 2000. From 1985 to 1994, Dr. Kondo was President of the Science Council of Japan, and from 1980 to 1985, he was Director of the National Institute for Environmental Studies. Since 1994, he has been Chairman of the Science and Technology Foundation of Japan.

**Loren Legarda-Leviste**

9/F LPL Towers  
 112 Legazpi Street  
 Legazpi Village  
 Makati City  
 Philippines  
 Tel: (632) 552 6872/552 6770  
 Fax: (632) 551 7763  
 E-mail: llegarda@info.com.ph

Loren Legarda-Leviste has been hailed as an 'ecological warrior' because of her staunch advocacy of environmental issues, particularly those pertaining to forest and marine resources. As a broadcast journalist for 20 years, she championed the cause for a healthier environment by heightening public awareness of environmental problems through her weekly television programmes "Pep Talk" and "The Inside Story". Her subsequent news magazine programme "EarthLink" became the first television documentary series on the environment and was awarded both the prestigious KBP Golden Dove Award and the EarthSavers Media Award. As the youngest member of the Philippine Senate, she has filed more than 103 bills and 68 resolutions, including the Clean Air Act of 1998 (enacted as Republic Act 8749), the Solid Waste Management Policy Framework, Total Commercial Log Ban of 1998, and the Greening Act of 1998. Legarda-Leviste is Chair of the Senate Committee on Economic Affairs and Tourism, and Vice-chair of the committees on environment and natural resources and public information and mass media. She sits on the powerful Commission on Appointments and chairs its Environment Committee. She also spearheads a laudable environmental project, entitled 'Greening the Philippines', that seeks to create 1,600 forest parks in urban areas nationwide in order to raise the level of consciousness of Filipinos to the value of trees. She was elected a Global Leader of Tomorrow for the year 2000 by the World Economic Forum in Davos, Switzerland. She is the recipient of numerous awards, including the Likas Yaman (National Treasure) from the Department of Environment and Natural Resources for her work as founding Chair of the Save Our Seas, and the Trees for Life Foundations.

**Sven Olof Lindblad**

Lindblad Expeditions  
 720 Fifth Avenue  
 New York, NY 10019  
 United States of America  
 Tel: 212-765-7740  
 Fax: 212-265-3770  
 E-mail: sven-olofl@expeditions.com

Sven Olof Lindblad's company, Lindblad Expeditions, is a world leader in responsible tourism. Through his personal commitment to conservation and the environment, he has donated the use of his company's vessels to host symposia, which bring together decision-makers from Mexico and Central America and conservation practitioners. These dialogues have resulted in the establishment of protected areas in the Bay Islands off the north coast of Honduras as well as Mexico's Gulf of California. For the past five years, he has been an engaged and constructive member of WWF's National Council, and his company has provided important financial support to several WWF conservation efforts. He offered the use of one of his ships at cost, foregoing profit during the high season, so that WWF could hold its Board meeting in the Sea of Cortez. This meeting resulted in contributions of

some US\$2 million for conservation in the Sea of Cortez. In addition to educating their travellers about natural history and conservation, Lindblad is committed to initiating partnerships with NGOs, protected area managers, local communities and other stakeholders in the primary destinations where they operate. He contributed more than US\$250,000 to grassroots NGOs, e.g. for a guide-training course in Baja California and a trail in St. Lucia, West Indies. The latter initiative has generated more than US\$1 million to the local economy. He initiated the Galapagos Conservation Fund whose contributions have already exceeded US\$500,000. In collaboration with the US Tour Operators Association, he established a Travelers' Conservation Foundation (TCF) made up of a range of companies associated with the tourism industry - a few of them without any previous involvement in conservation. TCF made its first grant of US\$500,000 to Mesa Verde. Lindblad launched a Kids at Sea Programme, where children from inner city high schools get a chance to see the world. Lindblad Expeditions carries out its activities in an environmentally responsible way and is an example many other tourism companies should follow.

**Jung Hee Park**

101 Dong San Villa  
 Bang Bai Dong 845-9  
 Suchoku,  
 Seoul  
 Republic of Korea  
 Tel: (822) 777 1071  
 Fax: (822) 536 3689  
 E-mail: greenact@chollian.net

Jung Hee Park, President of the non-governmental organization Korea Women Environment Movement Center (KWEMC), began her public service career in 1968 - four years after she started working for the YWCA in Seoul. During her tenure, she tried to make the connection between vocational training and professional development to increase employment opportunities for women. When she was elected President of the YWCA in 1991, she initiated the construction of Bongchun Dong Social Welfare Facility where she concentrated on consumer protection campaigns, environmental activities and juvenile education activities. She initiated a number of campaigns, including ANABADA, which is about reducing, reusing and recycling, the Living Species Protection Campaign, Operation Monitoring Team of Water Quality, and a seminar for Green products. Under her leadership, Seoul YWCA sent 3,000 truck-loads full of waste to recycling plants. She also promoted environment-friendly products and organized a major tree planting campaign where young trees were distributed free of charge. In 1996, when she was elected President of KWEMC, she brought together a number of women who were active in the environment to help her fight her cause. She published, translated and distributed gratis environmental teaching materials to the general public and teachers. She also undertook a survey of disposable products in department stores and supermarkets. From 1992 to 1997, she was a member of the Presidential Commission Administrative Reform Committee. In that capacity, she helped raise awareness of industry's policy on waste and introduced an evaluation system for firms. She also worked on revising the laws for taxes and charges for the improvement of the environment. Every spring, Ms. Park undertakes tree planting efforts and every summer she conducts environmental camps. Every month, she organizes seminars on waste combustion and field trips to Samankum Tidal. To further promote environmental awareness, she regularly gives lectures on environmental conservation at churches and schools.

**Professor Oscar Ravera**

Instituto per lo Studio degli Ecosistemi – CNR  
 Largo Tonolli 50  
 28922 Verbania Pallanza  
 Italy  
 Tel: (39-0323) 510 300  
 Fax: (39-0323) 556 513  
 E-mail: oscar.ravera@ise.cnr.it

Professor Oscar Ravera is a pioneer in the field of freshwater ecology in Italy. Over a three-decade period, he has made significant contributions to intellectual, scientific and theoretical approaches to environmental concerns. He has published more than 200 scientific papers (in Italian, English and French) on lakes, water research, ecology, pollution and on other environmental issues. Topics covered include the anthropogenic nutrient overload of waters causing eutrophication, the effects of ionizing radiation and nuclear fall-out on aquatic environments, general questions about the meaning and role of ecology in environmental sciences, as well as questions regarding environmental ethics. In addition to his internationally acclaimed research activities, Ravera has had considerable involvement as advisor to the Commission of the European Communities (CEC), in formulating environmental research programmes to be undertaken at its Joint Research Center in Ispra, Italy. His voice has made a significant impact throughout the European Community. In non-CEC programmes, he acted as supervisor of the 'Alpine Programme', which was part of the 18 country OECD International Programme on eutrophication. He is a member of the bilateral Commission between Italy and Switzerland regarding the protection of Alpine lakes, scientific coordinator of UNESCO's International Expert Group on the lagoons of Venice, and he has been associated with several other national and international projects. As teacher and advisor to students and study groups, his invaluable guidance is not limited to Italy, but involves students in universities in France, Germany and Holland. Professor Ravera is co-founder, president and secretary of the Italian Society of Ecology (SITE), and in collaboration with Professor Moroni of Parma, he has put the environment on a firm footing in the academic community of Italy. SITE has grown into one of the most active and influential ecological societies in the world, and today, thanks to SITE, all Italian universities have a chair of ecology.

**Sydney Olympic Organizing Committee**

for the Olympic Games(SOCOG) and  
 Olympic Coordinating Authority (OCA)  
 GPO Box 2000  
 Sydney, NSW 2001  
 Australia  
 Tel: (612) 9297 2052  
 Fax: (612) 9297 2044  
 E-mail: sbalderstone@ozemail.com.au

Sydney's successful bid to host the 2000 Olympic Games had as one of its principal themes, a commitment to ecologically sustainable development. Two organizations were created to prepare for this international event: the Olympic Coordination Authority (OCA) and the Sydney Organizing Committee for the Olympic Games (SOCOG). OCA, a statutory authority of the New South Wales (NSW) government, was responsible for the physical preparation and coordination of government-wide activity related to the Olympics. SOCOG, a corporation also set up by the NSW government, was responsible for planning and

staging various Olympics events. OCA and SOCOG worked with all partners, both public and private, to ensure that the environmental commitments were met. The Sydney Games set new environmental benchmarks in the areas of energy, water conservation, waste minimization, pollution avoidance and the protection of the natural environment. SOCOG and OCA developed an environmental policy and established an environmental programme and integrated environmental considerations into all their administration, planning and operational activities. SOCOG and OCA showed strong leadership by setting out a compelling vision, using the competitive tendering process to elicit environmentally-progressive submissions and by putting in place effective environmental management tools. The same approach was taken for environmental protection, infrastructure development and venue/facility construction. SOCOG and OCA: developed innovative mechanisms allowing open communication between government agencies, environment and community groups, sponsors and Olympic organizers; set up a community project, which resulted in the planting of some four million trees around Australia; set up a major project to assess the greenhouse impact of the Games; installed solar energy at the Olympic site; protected the Green and Golden Bell Frog; and created the first car-free Games for spectators. Volunteers piloted a composting scheme, whereby 400,000 worms turned SOCOG's canteen waste into one ton of solid fertilizer and 1,000 litres of liquid fertilizer. Visitors ate from plates made of sugar starch, used knives and forks made from cornstarch and disposed of the leftovers in compost bins. The new suburb built for the Olympic athletes was designed according to the best environmental principles. Electricity was generated by solar cells and water was recycled to feed the garden and flush the toilets. The Sydney Olympic Games also increased awareness about environmental issues, including the link between sport and environment.

**TRICICLO**

Cso Chieri 121/6  
 10132 Torino via Regaldi 7/11  
 10154 Torino  
 Italy  
 Tel: (39-011) 661 8042  
 Fax: (39-011) 247 2230  
 E-mail: franco.lov@tiscalinet.it, manufanti@tiscalinet.it

The Triciclo Centre, run by 22 members and numerous volunteers, some of whom are disabled, was established in 1996 to promote the reuse of discarded materials, such as clothes, furniture, books, toys and domestic tools, in a creative and innovative way. It also provides information on the various issues dealing with waste and their alternative uses. Triciclo also obtains and disseminates information about the experience of other countries in Europe and Africa in this area. Since it began its activities of selling objects that people throw away, Triciclo has cooperated with schools to sensitize students about environmental problems and on the composition of materials that are used in everyday life. Triciclo stimulates their interest by showing them how they can be reused and suggests alternative uses for them. Triciclo clears public places and private houses of old things and selects and sells materials to recycling centers and to handicraft laboratories, which repair second-hand items. A permanent exhibit on waste recycling, on works of art made of recycled materials and on research done in this field has been put up by Triciclo in two municipalities in Torino.

## YOUTH

### **Arunee Dejdamsrongsakkul**

48 Soi Taksin 37  
Taksin Road  
Thonburi  
Bangkok 10600  
Thailand  
Tel: (662) 468 1985/877 6823  
Fax: (662) 466 2182  
E-mail: a\_ning@thai2k.com  
Muikoong@yahoo.com

Arunee Dejdamsrongsakkul is a secondary school student at Suksanari School in Bangkok, Thailand, who has worked on environment and energy issues for several years, an interest, which was spurred by an event organized by the National Energy Policy Office in 1997. She had to research the issues for an exhibition at her school, and then had the opportunity to become a member of a group of 900 upper secondary school students working on energy efficiency issues, which is called "Divide by Two". Arunee has participated in nine energy campaigns in this group, and has since set up a group of 160 students called The Earth Club in her school to work on energy efficiency issues. She is the president of this group whose activities include participating in National Energy Policy Office competitions. The group has won funding from these competitions to run more activities in the school. The Earth Club has run an environment and energy radio programme twice a week since February 1999, and in December of that same year, a magazine was launched to which Arunee contributes a regular column - approximately 3,000 students read this magazine. The group also participated in events to promote a National Car Free Day on 22 September 2000 in Thailand. Arunee has also been involved in projects in 20 neighboring schools, often acting as a resource person to help other students understand the issues. Through her personal commitment and enthusiasm, she has been a role model, and students at her school and other schools have become more knowledgeable about the environment, and energy issues in particular, through practical projects and team work. Arunee has made a valuable contribution to the promotion of environmental issues in Thailand.

### **Evergreen Club of Ghana**

P. O. Box 168  
Trade Fair Centre  
La Accra  
Ghana  
Tel: (233-21) 761 058  
Fax: (233-21) 772 593  
E-mail: ecogsakeena@yahoo.co.uk

Evergreen Club of Ghana (ECOG) was founded in 1987 as a voluntary children's club with the aim of beautifying school compounds. Today, ECOG is a national non-governmental organization working with youth groups and children and with a grand mission to include adults in a unique partnership for environmental protection. Through classroom presentations, interactive demonstrations and practical exercises, ECOG encourages the young to learn about the importance of conservation and the role they can play. ECOG has members in all

regions in the country and works with a number of government institutions, local NGOs and international organizations. ECOG was involved in the preparation of Ghana's environmental plan of action (1991 and 1994), and organized the first National Youth and Children's Forum on Environment for the Earth Summit (1992). In the same year, it produced and launched the first recording album on the environment. Every year since 1992, it has undertaken national environmental awareness campaigns and since 1994, it has involved a number of young people in forestry projects. In 1997 and 2000, it organized the first and second national conference on forest management for youth. In 1993, 1994 and 1995, members of ECOG participated in international leadership programmes for youth and children in Geneva and the United States of America, and in 1997, they participated in the Africa Regional Meeting of the World Commission on Forests and Sustainable Development in Cameroon. In 2000, ECOG was a participant in the Youth Forum at the International Conference on Climate Change in The Hague. The organization also publishes *Evergreen News* a newsletter on environment and sustainable development. ECOG was the winner of the National Forestry Week competition in 1996.

### **Jose Marti Pioneer Organization**

Avenida de las Misiones No.53  
Pena Pobre y Cuarteles  
Habana Vieja  
Ciudad de la Habana  
Cuba  
Tel: (537) 670 181  
Fax: (537) 670 210  
E-mail: teatrodelpuerto@yahoo.es

The Jose Marti Pioneer Organization, established in 1961, is a volunteer organization through which more than one and a half million young Cubans undertake environmental protection activities. Some of its 278 activities include: avoiding fires in forests and meadowlands through environmental education in schools; ensuring that bonfires are extinguished correctly; participation in the creation of medicinal and fruit tree nurseries to create new forests; organization of World Environment Day (WED) activities; sending environmental protection messages through the mass media; preparation of audio-visual materials on the environment for all Cuban schools; production of the weekly "Be up-to-date" news programme; and the design of an educational programme on conservation for schools. In 1992, the Pioneers initiated a movement whereby a number of activities are undertaken including the clean up of schools, parks, monuments, forests, rivers and seas, as well as recycling efforts. Every year on WED, half a million Pioneers participate in a national campaign to promote environmental protection. Pioneers have developed painting, song and writing contests on the environment in schools, and for one month every year, Pioneers in Secondary schools participate in agricultural activities, such as the cultivation of crops and the cleaning of fields. Secondary School Pioneers also participate in various environmental clubs with different themes, such as Friends of Nature (9,421 members), The Animals and Me (7,396 members) and The Lungs of My City (5,683 members). The Pioneers have created didactic games, which offer solutions to environmental problems and help enhance the environmental vocabulary of eight year-olds. The organization also produces a number of publications on environmental conservation.

**Khohlooa, Matholoana and Likobo Herdboys**

District Agricultural Office Berea  
 'Mamathe Road  
 P.O. Box 9  
 Berea. 200  
 Lesotho  
 Tel: (266) 225 00232/22501330  
 Fax: (266) 225 00006  
 E-mail: daoberea@ilesotho.com

The Khohlooa, Matholoana and Likobo Herdboys are groups of herders in village communities in Thupa-Kubu, Berea District in Lesotho. Though a disadvantaged group of Basotho society, they are the day-to-day managers of the environment. Their involvement in natural resource management has come about as a result of their concern over the limited supply of forage in grazing areas in their villages, which has resulted in poor livestock yields. The herders have carried out simple soil and water conservation measures, such as the building of silt traps and the planting of Kikuyu grass to reclaim dongas. They also keep bees for honey-producing purposes in their respective areas. While herding, they have prepared 7,000 holes to plant trees for fuelwood and shade, and, to date, they have managed to plant 1,300 seedlings. They have also built a dam to collect water for their animals and to irrigate fodder and vegetables. In 1998, they motivated herders from 21 villages to undertake soil and water conservation activities. Thanks to the efforts of the Herdboys, there is less trespassing on pasture-land, fewer quarrels over communal grazing areas, and the burning of village grazing spaces has been reduced.

**Jean-Dominic Levesque-Rene**

425 Aime-Lecavalier  
 Ile Bizard  
 Quebec H9C 2E4  
 Canada  
 Tel: (514) 696 5974  
 Fax: (613) 995 8202  
 E-mail: levesquerene@qc.aira.com

During the course of his life, Jean-Dominic Levesque-Rene has seen his share of battles, first with his own cancer and then on another front, as a one-kid environmental crusade. At the age of 10, Jean-Dominic began his fight to ban the use of pesticides, at the same time he started chemotherapy treatment for a cancer of the immune system. He was diagnosed with non-Hodgkin's lymphoma, a cancer he believes was caused as a result of early childhood exposure to pesticides. He grew up in Ile Bizard, where golf courses make up about half of the town's landmass. Keeping the fairways immaculate requires the use of a huge quantity of pesticides. He organized a group of children and picketed City Hall demanding a ban on pesticides. He has worked tirelessly by lobbying various levels of government through petitions (he received 4,000 letters and gathered 15,000 signatures), letter writing, briefings, speeches and conferences. His actions have generated tremendous awareness about environmental and human health hazards of pesticide use, especially its effects on children's health. His efforts have resulted in many municipalities across

Canada enacting by-laws to ban pesticides. In May 2000, the Federal House of Commons Standing Committee on the Environment and Sustainable Development recommended a ban on pesticides for cosmetic purposes. Jean-Dominic has made presentations before national and international fora on public health and environmental protection. In May 2000, he spoke before a panel of delegates from Canada, the United States of America and Mexico at a conference organized by the Commission for Environmental Cooperation, under the auspices of NAFTA. His recommendations on children's health and the environment were accepted by the Committee. He is the recipient of numerous awards, including the prestigious Terry Fox award for environmental activism (1995), the Canadian Order of Youth, the country's highest honour (1995), the Federal Department of the Environment Canadian Health Environment Award (1996), and the Quebec Provincial Government Phoenix Environmental Youth Awareness Prize (1998).

**Yayasan Anak Warisan Alam**

No. 3 Jalan Rahim Kajai  
 Taman Tun Dr. Ismail  
 60000 Kuala Lumpur  
 Malaysia  
 Tel: (603) 7727 5592  
 Fax: (603) 7729 8413  
 E-mail: khadijah@yawa.org

*Yayasan Anak Warisan Alam (YAWA)*, or Children's Environmental Heritage Foundation, is an organization committed to changing young people's attitudes towards the environment. Set up in 1990 as the Junior Environmental Group of Malaysia, it is now a registered foundation dedicated to instilling environmental awareness in young people through thought-provoking, fun-filled activities. YAWA has formed a global network with environmental groups in Australia, South Africa, Thailand and Indonesia, and is proposing an air-watch activity starting in 2001 in these countries. It has organized more than 100 activities nationally and abroad, and has taken part in a number of international conferences. It has undertaken beach and lake clean up exercises, as well as tree planting, and has helped children express their environmental concerns through art. They participated in painting the longest mural in the UK in 2000. YAWA organizes eco-camps, to help children better understand ecosystems. It has produced an information kit entitled *Share the Planet* and has undertaken research on air pollution and acid rain, whose results were presented at international meetings in 1999 and 2000. In 1995, several members of the Foundation attended the first UNEP International Children's Conference on the Environment in Britain. Inspired by that meeting, YAWA organized its own international conferences, bringing together children from around Malaysia and the world to discuss important green issues. The first conference was held in 1996 at the Forestry Institute in Kuala Lumpur where delegates learned that it takes millions of years for a rainforest to develop its amazing biodiversity and just minutes to wipe it out. In 1998, the year Malaysia faced a water shortage crisis, the second conference was held in Marang, which taught delegates that water is not as limitless as it seems.

## **2002 GLOBAL 500 LAUREATES**

### **ADULTS**

#### **H. R. H. Princess Basma bint Ali**

P. O. Box 2296  
Amman  
Jordan  
Tel: (96-279) 533 144  
E-mail: basma@nets.com.jo

H. R. H. Princess Basma bint Ali of Jordan, founder and chairperson of a number of grassroots NGOs in the field of environment and sustainable development, is a positive role model not only for women, but for an entire generation of young people in the Middle East. She has helped raise the public's sense of responsibility towards the protection of the environment and the need to achieve sustainable development. She is also chair of the Jordan Royal Ecological Diving Society, the National Environment Wildlife Society and the Red Crescent Society. Through her efforts, the organizations that she has founded and chairs have attracted a huge following and have helped enhance civil society participation in sustainable development activities. In November 2001, she worked with the Jordanian Government to hold a regional conference for NGOs on the role of civil society in the implementation of Agenda 21 for the World Summit on Sustainable Development (WSSD). Her contribution to Jordan's preparations for WSSD, and the extensive media coverage her work attracts, has helped make the environment and sustainable development household topics in her region. Also of note are Her Royal Highness' efforts in academic research. She has worked with and supported Jordan's renowned botanist Dr. Daoud El-Esawi, in saving one of Jordan's endemic crocuses from destruction by relocating it to the Jordan University Botanical Garden and the Jordan Intercontinental Hotel Gardens. She was honored as a Hero for the Planet by *TIME* Magazine in 1998, and she is the recipient of numerous awards, including the Order of Merit from the Jordanian Armed Forces (1998), the King Hussein Gold Medal for Excellence and the Medal of Administrative Competence from the Jordanian Armed Forces (1995). She was chosen by the United States Information Agency to represent Jordan at their International Visitor Programme on Marine Conservation and Women in Military Affairs (1995). She is Honorary President of the Fertile Crescent Society of the Middle East; Honorary President of the Planetary Coral Reef Foundation, California, USA; Founder and President of the Pilot Phase Assessment Committee of Jordan for the Global Environmental Facility; member of the Society for the Preservation of Jordanian Heritage; and founder and member of the board of directors of Halfway House for Juvenile Delinquents, Boston, USA. She holds a certificate in Military Science from the Royal Military Academy of Sandhurst, UK.

#### **Amazon Conservation Team (ACT)**

4211 North Fairfax Drive  
Arlington, VA 22203  
United States of America  
Tel: (703) 522 4684  
Fax: (703) 522 4464  
E-mail: info@amazonteam.org  
gzuluaga@etnomedicina.org

The Amazon Conservation Team (ACT) is a creative and effective organization devoted to protecting native cultures and ecosystems in the American tropics. ACT was founded in 1995 by a group of conservationists to address a pressing need for a new kind of environmental organization that would work in true partnership with indigenous peoples to preserve their ancient wisdom and cultures, as well as the lands that sustain them. These conservationists, from Colombia, Costa Rica, Mexico, Suriname and the United States with centuries of field experience among them, have developed new and effective conservation strategies and programmes by combining western science and technology with tribal wisdom. ACT's unique approach has added a much-needed complement to the work being done by larger, traditional environmental organizations. A cornerstone of the ACT approach is the Shaman's Apprentice Programme, whereby young members of indigenous tribes train with traditional shamans and other elders to become both the healers and environmental guardians of the next generation. The most recent culmination of the ACT's efforts was the second annual meeting of the most ancient and powerful shamans of the northwest Amazon (and their apprentices). At this unprecedented gathering, 42 shamans from seven tribes put aside their tribal differences and worked cooperatively to seize control of their environmental and cultural destinies, which they believe to be inextricably intertwined. ACT is working with these indigenous people and the Colombian Government to create a new category of protected area: Indigenous Reserves and Sacred Sites. The first 10,000-hectare site has already been established. In the northwest of the Amazon, ACT has partnered with the Tirio Indians to map their traditional homeland, an area of more than 20 million acres, and is helping them petition the Government for title to these lands. ACT is actively involved with these and other tribes to sustainably manage their forests for Brazil nuts and other non-timber products giving important economic value to ecosystem protection. ACT is a powerful example of what can be accomplished by a small, dedicated team of people who share the same philosophy and vision. It is a model that should be replicated around the world.

#### **Aohanqi Chifeng City of Inner Mongolia**

Xinhui Zhen  
024300 Inner Mongolia  
People's Republic of China  
Tel: (86-476) 433 5175  
Fax: (86-476) 433 3772

Located in the semi-arid area at the southern edge of the sandy region of Keerqin in Northern China, Aohanqi was seriously threatened by desertification due to the irrational use of natural

resources. Since the 1970s, large-scale environment-friendly construction has been undertaken. In the 1980s, Aohanqi Chifeng City adopted an ecosystem approach to land and resource management with an emphasis on ecosystem restoration, particularly reforestation of the hilly areas of the southern part of the county, agro-forestry in the central part and grassland protection in the north. The county has established effective mechanisms and related policies, which benefit farmers who support this approach. After 30 years of hard work and commitment, the forest cover has reached 43.5% with 8,000 hectares of grass planted. About 381,300 hectares of small river catchments have been managed in an integrated way and 65% of soil erosion is under control. Fourteen nature reserves have been created covering 12% of the county. Movable sand dunes have been reduced to 6,000 hectares from 38,000 hectares 30 years ago. Soil erosion has decreased to 2,500 tons/km<sup>2</sup>/year from more than 5,000/km<sup>2</sup>/year, thus reducing the number of windy days by 22 days and increasing the ground water table by one metre. Today, Aohanqi Chifeng City ranks first among the areas in China in terms of afforestation and grass planting. Food production has increased eight-fold since the 1970s, and the 1.6 billion GDP has increased 10-fold since that time. In addition, annual per capita income is 16 times more than what it was in the 1970s. Aohanqi Chifeng City has become a model in desertification treatment in the semi-arid parts of northern China, and it was the first to be nominated as a National Ecological Demonstration Area by the State Environmental Protection Administration (SEPA) of China.

#### **Fondo Ecuatoriano Populorum Progressio**

Mailorca No. 24-274 y Coruna

Quito

Ecuador

Tel: (593-2) 20 408 or 529 372

Fax: (593-2) 504 978

E-mail: fepp@uio.satnet.net

The achievements of *Fondo Ecuatoriano Populorum Progressio* (FEPP) have been both significant and numerous. They include: reforestation of 3,000 hectares of tropical and high Andean woodland with native species (1996-2000); design and implementation of 418 sustainable management plans in humid tropical woodlands (1998-2000); development of 3,158 hectares of farmland under the integral management concept, benefiting more than 1,000 poor families in the humid tropics and the forest margin (1997-2000); development of 5,165 hectares of cropland under the agro-forestry system (1996-2000); development of a forest inventory of 12,463 hectares of native woodland with the participation of the indigenous tenant farmer and Afro-Ecuadorian populations which enabled the assessment of the non-wood resources of the forest for sustainable exploitation (1993-2000); management of 612 hectares of virgin woodland by pruning and thinning out thus enabling the local population to exploit its resources in a sustainable manner (1993-2000); construction of slow-forming terraces, soil improvement with plant material, cultivation, water catchment conservation and production of humus in various parts of the country (1995-2000); monitoring of water quality in areas surrounding Yasuni National Park (1998-2001); monitoring of mammalian species to determine the degree of impact of deforestation in areas of settlement adjoining Yasuni National Park (1998-1999); delimitation of 32 kms and placement of signs showing indicative forest species within Yasuni National Park and Mache Chindul Reserve, in collaboration with the Ministry of Environment (1999-2001); and the provision of support for land tenure conflict resolution in Yasuni National Park and Mache Chindul Reserve whereby 25 communities with more than 180,000 hectares benefited (1996-2001).

#### **Municipal Government of Shenzhen**

City Hall Mid. Shennan Road

518006 Shenzhen

Futian District, Guangdong Province

People's Republic of China

Tel: (86-755) 379 7255

Fax: (86-755) 379 7255

E-mail: szxjzx@szepb.gov.cn

Shenzhen City, established in 1980 as China's first economic special zone, has successfully followed the concept of developing the economy without damaging the environment. The municipal government followed an integrated planning approach, which involves strict laws. To date, 38 local environmental laws have been passed. In 1982, regional environmental impact assessment and planning research on the overall development of the City was conducted and it was decided that construction in Shenzhen would be in the form of clusters. 76% of non-civil land in the City was earmarked for ecological purposes and 135 parks were created, thus increasing green coverage in the urban center by 45%. The social and economic development strategy was undertaken in a scientific way. Great efforts were made to develop advanced science and technology-led industry characterized by quality, efficiency and resource protection. In the last five years, the City has vetoed 3,619 projects, which failed to meet environmental requirements. Shenzhen is the first city in China to achieve standard industrial discharge. The energy and water consumption for 10,000 Yuan of industrial output is 0.7 tons and 73 tons of standard coal respectively. Cleaner energy accounts for 90% of the total energy. Today, the percentage of environmentally good days is 98.4%. The potable water has met national quality standards. The annual investment for environment has been 2 billion Yuan and increased to 3.8 billion in 2001. The City has set up eight wastewater treatment plants and China's first sanitary waste landfill plants, which meet international standards. In addition, two power plants for waste incineration and one hazardous waste safety landfill plant have been built. The City is now promoting housewaste separation and classification and has set up 69 green schools and kindergartens and one ecological demonstration township. More than 80 enterprises have received ISO14000 accreditation. In the last 21 years, the annual GDP has increased by 30.3% and the per capita GDP is now number one in China. It has succeeded in achieving rapid economic development while maintaining a favourable environmental cycle. Shenzhen received the title National Model City for Environmental Protection and was honored as the International Garden City in 2000 by the International Association of Gardens and Recreational Facilities. Shenzhen serves as a model for successful sustainable development for developing and newly developed countries.

#### **Tabigat Ecological Union**

Zheltoksan Street 115 Apt. 258

480090 Almaty

Kazakhstan

Tel: (7-3272) 629 705

Fax: (7-3272) 629 705

E-mail: tabigat@nursat.kz

Tabigat Ecological Union, founded in 1991, is one of the first environmental NGOs in Kazakhstan. Its goal is to create ecological standards for industry, introduce advanced, non-polluting technology in the industrial sector and promote sustainable development in the region. The first problem addressed by Tabigat is the threat of flooding by wastewaters from

the Almaty City storage facility of Lake Sor-Bulak, which may affect 50,000 citizens in Balchshsky and Kurtinsky. In 1999, the Almaty Department of Ecology and Tabigat conducted a feasibility study of Sor-Bulak, which today serves as a model for other regions. Another problem addressed by Tabigat was solid waste disposal. The authorities were to build an incinerator in the city, which would have an adverse effect on the air quality of Almaty. Tabigat opposed the construction of the incinerator and proposed alternatives for collecting and recycling the wastes, e.g. sorting the trash and redistributing it to different national industries. Tabigat won support for establishing a resource centre, which would collect and create a database for housing superintendents and apartment managers that allows interested organizations such as municipal offices and homeowners to access information on environmental issues. In an effort to fight against desertification, Tabigat has encouraged the people of Kazakhstan to celebrate the traditional holiday of Nauryz with every Kazakhstani planting a tree. In 1998, Tabigat and the National Park Ile-Alatau opened a honeymoon park near the mountain of Medeo where newlyweds plant trees. In 1999, based on initiatives by Tabigat, more than 4,500 people planted 10,000 trees on 20 hectares surrounding the Vesnovka River. In 1997, at the initiative of Tabigat, the Ministry of Ecology agreed to provide 500,000 tenge (national currency) for a feasibility study for the creation of Cherinsky, a national park between the Cherin, Chilik and Ily Rivers and the Togougir Mountains. The park will have restrictions and penalties for negligent tourists, poachers and other undesirable visitors. The plan calls for the development of ecotourism. About 70% of emissions in Almaty come from transport. Due to the increase in vehicles and the pollution they cause, Tabigat organized a bicycle movement, which includes the development of bicycle lanes in the City and research into the flow of traffic on major city arteries.

## YOUTH

### **Eco-Walk Children of Baguio City**

PIA Office, 2nd Floor  
 Insular Life Building  
 Upper Abanao Street  
 Baguio City 2600  
 Philippines  
 Tel: (63-74) 442 2502  
 Fax: (63-74) 442 3939  
 E-mail: tam72090@yahoo.com

Eco-Walk Children of Baguio City in the Philippines, established in 1992, is a series of children-oriented hikes to Busol - Baguio's main and endangered watershed. The children have turned this precious water source into a laboratory and playground for experimental learning. They have succeeded in increasing the area's forest cover and its water production. Their visits deter tree poaching, bird hunting, fires and encroachment on natural habitats. Their example has spurred adults in the community to volunteer their time to protect the environment and has helped raise environmental awareness. Their success has also resulted in eco-walks being integrated into the curriculum of the elementary school system's grade five and six and in greater media focus on environmental issues. The teaching modules have been integrated into all the subjects to prepare children for their actual hikes and exploration of the forest, and to give them an opportunity to discuss what they have learned during their walks. Several indigenous communities in the Cordillera Highlands, the watershed cradle of Northern Luzon, have adopted the programme to help revive their own traditional forest management systems. Eco-Walk has been replicated in other local government units (LGUs), which are drawn to the programme by its simplicity. Eco-Walk is used by the Asian Institute of Management as a model environmental and governance case study and by the Swedish Government's 1999, 2000 and 2001 international watershed management course, which is held every January. It has also been used by the International Institute on Rural Restoration as a case study in watershed management. The Canadian International Development Agency supported and documented it in 1998 as one of six action research programmes on effective local governance in Southeast Asia, and senior Philippine environment officials plan to adopt it nationwide.

### **Joventude Ecologica Angolana**

Traverse Comandante Kwenha, 5,  
 Maculusso 5  
 P. O. Box 542  
 Angola  
 Tel: (244-2) 399 734/(244-91) 504 379/ (244 92) 326 476  
 Fax: (244 2) 399 734  
 E-mail: jea@mail.netangola.com  
 Jea@netangola.com  
 global500.africa@nexus.ao  
 Website: <http://www.global500.org>

*Joventude Ecologica Angolana* (JEA) is an environmental NGO founded in 1991 by a group of young Angolan activists. Despite the difficult conditions brought about by decades of war and limited resources, these young people have shown a great deal of enthusiasm and personal commitment, thus helping JEA become a leading environmental force in the country. JEA, whose aim is to promote environmental education and awareness among young people is active, not only in the Capital Luanda, but also in numerous provinces. Some of JEA's achievements include: the Environmental Olympics, which promotes environmental education in high schools, involves some 2000 youth in 40 schools in Luanda and 500 youth in 10 schools in Huila Province; the production of environmental radio programmes in Luanda initiated, edited and presented by JEA, including one on National Radio and five in other provinces; the distribution of environmental information; and the promotion of environmental awareness through regular columns in newspapers, such as *Journal of Angola*, *Actual*, *Humbi-Humbi* and JEA's own newspaper *Little Green*. JEA works closely with the Government of Angola and primarily the Ministry of Fisheries and Environment. JEA assists in the implementation of national environmental awareness and education campaigns. JEA has initiated the creation of an association comprising all Angolan environmental NGOs in an effort to enhance collaboration and communication between associations, which share a mutual cause. JEA is a member of the CEC Commission of IUCN and the Environmental Education Association of South Africa, and works within the framework of the Southern Africa Development Community for environmental education and capacity-building.

## 2003 GLOBAL 500 LAUREATES

### ADULTS

#### **Serge M. Antoine**

10 rue de la Fontaine  
91570 Bievres  
France  
Tel: (33-1) 69 41 20 56  
Fax: (33-1) 69 85 52 33  
E-mail: comitzi@comitzi.asso.fr  
as.antoine@wanadoo.fr

Very few people in France, or in the Mediterranean region, have devoted as much imagination, energy and intelligence to the cause of the environment as Serge Antoine. As early as the 1950s, he saw the need for a better distribution of activities, which would protect natural areas in France. His actions led to two major decisions: the adoption of a new form of regional planning and the setting up of the "Parcs Naturels Regionaux" - similar to biosphere reserves. He played a major role in the creation of the Ministry of Environment and was Secretary-General of the High Committee for Environment. He took an active part in the preparations for the Stockholm Conference and in the creation of UNEP. He was instrumental in negotiating the 1976 Barcelona Convention for the Mediterranean and launched the idea of a study of the region, which became the Blue Plan. In 1996, he advocated the setting up of a Mediterranean Commission for Environment and Development. He promoted the creation of the "Conservation du Littoral" — a national network of hiking trails and he founded the C.N. Ledoux Institute for future studies. He is on the Editorial Board of the World Resources Institute and the Seydoux Foundation for the Mediterranean. From 1982-1985, he was chairman of the Man and the Biosphere (MAB) National Committee of France and has been vice-chairman of the Blue Plan since 1985. He is an officer of the Legion of Honour (1994), Commander of the Order of Merit and a recipient of the Mediterranean Gold Medal (1997).

#### **Bangladesh Environmental Lawyers Association (BELA)**

House No. 9, Road No. 8  
Dhanmondi Residential Area  
Dhaka 1205  
Bangladesh  
Tel: (88-02) 861 4283  
Fax: (88-02) 861 2957  
E-mail: bela@bangla.net

Feeling the urgent need for an advocacy group to monitor and pursue the implementation of laws and regulations to protect the environment, a group of young lawyers initiated the Bangladesh Environmental Lawyers Association (BELA) in 1991. Over the years, BELA has become a true pressure group against environmental violations. BELA's research has played a significant role in popularizing the environment amongst the general public. Opposed to aggressive advocacy, BELA has helped sensitize various actors by raising environmental awareness. It approaches each organization as a co-actor and emphasizes the need for joint action. A model for training and sensitizing professionals and the public was adopted by the organization that presently organizes such programmes with

lawyers, NGO workers, government officials, teachers, journalists, students, and representatives of local government. BELA is the only organization that arranges special workshops exclusively for judicial officers. With 60% of the total population in Bangladesh estimated at having no access to justice, BELA is considered a pioneer in public interest environmental litigation (PIEL). As an environmental organization, it has to date filed 38 cases of which 12 have been decided in favour of the cause while the rest are pending. Other major achievements of BELA include: opening up of PIEL in Bangladesh; recognition of 'right to life' as part of constitutional 'right to life'; directive judgements in mitigating industrial pollution and vehicular pollution; addressing payment of environmental compensation in development projects; river encroachment; and unlawful filling of flood plain zones. Other activities undertaken by BELA in Bangladesh include: research into legal documents to minimize the gap between provisions of law and people's expectations, including laws on compensation; on regulating environment and customs on forests and intellectual property rights. BELA produces a quarterly newsletter in English and Bengali on major environmental issues and laws, as well as *Sangsad Sangbad* — a bulletin that covers the proceedings of the Parliament on environmental issues and the law making process. BELA is an active member of IUCN, the Environmental Lawyers Alliance Worldwide (ELAW), Health Care Without Harm (HCWH), South Asia Watch on Trade, Economics and Environment (SAWTEE), and the Coalition of Environmental NGOs in Bangladesh (CEN).

#### **Dr. Annelisa Kilbourn**

2300 Southern Boulevard  
Bronx  
New York, N.Y. 10460  
United States of America  
Tel: (718) 741 8201  
Fax: (718) 220 1387  
E-mail: wkaresh@wcs.org

"International" and "wildlife conservation" were consistent themes throughout the life of Dr. Annelisa Kilbourn who tragically died in a plane crash in Gabon, in November 2002, whilst working on her research into the Ebola virus and western lowland gorillas. With a multi-national background and upbringing in Europe and the United States and years of work in Africa and Southeast Asia, her fluency in seven languages was just one of her many talents. Upon graduation from veterinary school at Tufts University in the United States, Dr. Kilbourn received the Wildlife Health Fellowship from the Field Vet Programme of the Wildlife Conservation Society (WCS). She conducted the first research on the health of free ranging orang-utans in Sabah, Malaysia, helped to train local counterparts, and assisted the government in the translocation of orang-utans and elephants to safe havens. Following this, she was accepted in a two-year joint post-doctoral programme at Lincoln Park Zoo and the Shedd Aquarium in Chicago. Excelling at her work, she was offered a permanent position at the Shedd Aquarium where she remained until accepting simultaneous opportunities with both SOS Rhino and WCS. For SOS Rhino, she took on the task of helping to protect

the last remaining rhinos in Borneo. If there is any hope left for the survival of the rhino in Borneo, much of it is due to Dr. Kilbourn's tireless and successful efforts to bring all of the stakeholders to the same table and help to implement a plan on the ground. For WCS's Field Veterinary Programme, she forged new ground with the lowland gorilla health programme in Central Africa. She quickly built trust and working relationships with local people, researchers, park managers and government officials at six sites in three countries. She programmed customized software in French, running on hand-held organizers, to facilitate standardized data and sample collection by potentially hundreds of people. This information instantly links all of the data to GIS maps to show the critical distribution of health problems for gorillas and people. Dr. Kilbourn's training of field teams allowed her to lead investigations into last year's deadly Ebola Virus outbreak, and her work in the field produced the first proof that gorillas are infected and quickly die of the virus — information which may serve to protect both gorillas and humans. Dr. Kilbourn did not agree with the pragmatist's notion that we have to make choices between people and animals. She was committed to working twice as hard and doing whatever necessary to benefit both. Dr. Kilbourn worked some 16 hours a day, seven days a week. Once when encouraged to take a short vacation, Annelisa answered, "Why? I'm on vacation every day."

#### **Dr. Bindeshwar Pathak**

Sulabh International Social Service Organization  
Sulabh Bhawan, Mahavir Enclave  
Palam Dabri Road  
New Delhi 110 045  
India  
Tel: (91-11) 2503 1519  
Fax: (91-11) 25-3 4014  
E-mail: sulabh1@nde.vsnl.net.in

In India, 700 million people and 120 million households have no toilets. Fifty million bucket toilets are cleaned by half a million "scavengers". This has led to atmospheric pollution, health hazards and a class of people who clean up the excreta of others. To address this situation, Dr. Bindeshwar Pathak, a social worker, environmentalist and founder of the Sulabh International Social Service Organization, developed the technology of a twin-pit, pour-flush toilet known as Sulabh Shauchalaya, of which one million have been constructed. This environment friendly technology provides on-site disposal with no smell and soil pollution, and it conserves water. Through this development, there has been a massive change in the attitude and behaviour of people towards sanitation. Indians now readily pay user charges in 5,500 Sulabh public toilets. Biogas production from human excreta in 100 public toilets and its various uses, e.g. lighting, cooking, etc. and the use of effluent as rich fertilizer is one of his hallmark contributions. To the biogas plant is attached the Sulabh effluent plant, whereby water discharged is made colourless, odourless and pathogen-free, fit for discharge into any water-body, promoting a better and healthier environment. In both the technologies, there is production of organic nutrient-rich fertilizer and re-use and recycling of waste matter. In 1996, Pathak's Sulabh Sanitation System was recognized as a Global Urban Best Practice by UN-Habitat, and in 2000 he received the Dubai International Award.

#### **Najib Saab**

P. O. Box 113-5474  
Tarazi Building  
Labban Street, Hamra  
Beirut  
Lebanon  
Tel: (961-1) 341 323  
Fax: (961-1) 346 465  
E-mail: nsaab@mectat.com.lb

Through *Al-Bia Wal-Tannia* (Environment and Development) magazine, which he launched as a private initiative, Najib Saab has triggered an unprecedented environmental public awareness campaign in the Middle East, bringing environmental concerns to the Arab public-at-large and creating a regional environmental advocacy forum. The influential magazine now has a circulation of 38,500 in 22 countries. It is used in schools, and its articles are a main reference for environmental curricula. Saab's editorials on sustainable development issues in the Middle East are syndicated to 10 daily newspapers. *Al-Bia Wal-Tannia* sponsors more than 360 environmental clubs in schools, and supports them with education material and training. Saab has produced a weekly environmental education television programme entitled *Environment Club* — a pioneering effort in the region. The magazine organizes environmental conferences and it is shown in different parts of the region. He has succeeded, again through his own initiative, to build around the magazine a pan-Arab environmental movement, which strongly helped place the environment on the agenda of both the public and the private sectors. By creating a vibrant environmental forum, he has accomplished what official bodies in the region could not successfully develop over the years.

#### **Boureima Wankoye**

B.P. 12014  
Niamey  
Niger  
Tel: (227) 741 4227  
Fax: (227) 741 1760  
E-mail: asi@intnet.ne

Boureima Wankoye is president of Achats Service International (ASI) — a company which has proven to be an excellent example of private sector initiative in environmental protection. ASI introduced and encouraged the mass plantation of gum arabic for export to Europe in the drylands of Niger, which has not only helped rehabilitate degraded land in these areas, it has also provided a profitable, income-generating activity for its inhabitants. It has thus tackled both adverse weather and land conditions as well as poverty, marking a breakthrough in sustainable development in drylands, where the world's poorest reside. Its activities have proven that innovative, profit-making solutions to environmental problems are feasible even in the poorest agricultural and economic conditions and with modest capital. The plantation of 1,200 hectares of gum arabic in the drylands of Niger by ASI has greatly contributed to environmental rehabilitation and the eradication of poverty in these areas. It has provided a source of income for more than 6,000 rural families, rehabilitated degraded land through afforestation, helped preserve

almost extinct animal species, and created value for African agricultural products in the world market. It has also drawn attention to the value of gum arabic, which requires little water and no fertilizer and can be used for commercial purposes such as soft drinks, cosmetics and civil aviation, as a specimen for profit-generating agricultural production in dryland rural areas. ASI's example has paved the way for the establishment of other such enterprises in drylands throughout the country and around the region.

**Women Environment Preservation Committee (WEPCO)**

Ward No. 1

Lalitpur Sub-Metropolitan City

Kathmandu

Nepal

Tel: (977-1) 522 063

Fax: (977-1) 554 8000

E-mail: wepco@ntc.net.np, ylvaidya@wlink.com.np

The Women Environment Preservation Committee (WEPCO) is a non-profit organization established in 1992 by a group of housewives from Lalitpur in response to a growing awareness that the environment in the Kathmandu Valley in Nepal was in danger. The growing volume of waste caused by increasing population and excessive consumption is one of the most urgent problems in the City of Kathmandu. As a result, WEPCO has made 'disorganized garbage' its priority. WEPCO's goal is to enable the people of Kathmandu to have a clean and healthy environment through the initiatives of local women and students. The bulk of waste generated by households is kitchen waste. In Nepal most kitchen work is done by women. Women decide what, when and where to throw garbage. WEPCO has completed more than 100 training sessions on environmental awareness among community women and schools. It has several women's environment groups working in Lalitpur Sub-Metropolitan City. WEPCO has formed 90 clubs in schools, involving more than 6,000 students in six districts. Students of eco-clubs help create awareness of household waste management in their communities. WEPCO, which collects and manages garbage from more than 3,000 households from Lalitpur, has proved that using the three "R" principle (reduce, reuse and recycle) at the community level can control waste pollution problems in an urban municipality. WEPCO established demonstration sites for paper recycling and organic and vermin compost and has supported many households to start their own composting. WEPCO has a staff of 15 women and 10 men who are supported through the sale of recycled paper and garbage collection services. WEPCO is involved at the policy level to promote advocacy against the burning of waste, and the expansion of waste management at the community level.

## YOUTH

### **Salle Pedagogique des Zones Arides**

Station de Recherches  
08300 Benin-Abbes (Bechar)  
Algeria  
Tel/Fax: (213-49) 82 48 85  
Fax: (213-49) 82 43 37/82 46 00  
E-mail: kksammar@yahoo.fr

In 1998, to increase awareness of local water problems, the children of the Beni Abbes' Salle Pedagogique des Zones Arides in the southwest of the Algerian Sahara decided to carry out a survey on the problems of water and its management within households. The target group consisted of 500 families in El Wata and 500 families in Beni Abbes. The results of the survey showed that there was significant wastage, with wastewater disposed of untreated, increasing wastewater volumes and possible pollution of the groundwater. The volume of wastewater that is not reused can be subtracted directly from the amount of spring water available for irrigation. When they assessed the results of the survey, these young people were led to think about the health risks from an increase in waterborne diseases from polluted water. With their teachers' backing, they decided to set up a small experimental lagoon system. In December 1999, this was carried out with assistance from the Popular Communal Assembly, which enabled a water engineer to participate. The neighbouring 'fellahin', who saw production in their plots increase, became partners in the project. When faced with problems in cleaning out the first basin, the young people succeeded in raising the awareness of the people whose wastewater was going into it so that they selectively screened out oils. A film *Nest of Nurseries* was shot telling the story of how the lagoon system was born, in the context of preparations for the international exhibition in Hanover, Germany with the help of ENTV (Algerian Television). The children passed on the message that saving water is vital. Feedback has been set up between the young people and the families surveyed, which has enhanced the value of the Club. The need for co-operation with all social partners has been taken on board. In 2002, the lagoon system was a focus for public awareness raising and information for the people of Beni Abbes and for schools in neighbouring oases.