



PLANET EARTH LISBON 2009
International Year of Planet Earth

PARQUE DAS NAÇÕES | LISBOA

VENUE | Camões Theatre
Lisbon Oceanarium
Knowledge Pavilion
BESA Spot

WELCOME MESSAGES



**PRESIDENT OF THE
REPUBLIC OF PORTUGAL**
Aníbal Cavaco Silva

We are today confronted with the imperative need to rethink the relation between human activities and Nature. The options that we are called upon to take entail a new paradigm of development; they directly concern all people and countries and will have impacts that will affect in a profound way future generations. They, therefore, pave the way towards a very intense and real international cooperation and to a commitment and effort to strive for awareness and mobilization of public opinion.

Bearing this in mind, I would like to underline the valuable work accomplished in the framework of the International Year of Planet Earth and the activities that were carried out throughout the triennium 2007-2009, in line with the objectives inscribed in the Declaration of Paris. The results that were achieved and the seeds that were laid down are a precious contribution to that effort for awareness and mobilization. They now require to be given the continuity they deserve and that the circumstances call for.



**PRESIDENT OF THE
PORTUGUESE COMMISSION
FOR UNESCO**
Fernando Anderssen Guimarães

In the framework of the United Nations Decade of Education for Sustainable Development (2005-2014), the Portuguese National Commission for UNESCO decided to implement the aims and objectives of the International Year of Planet Earth - IYPE (2007-2009) at the national level, under the high patronage of the President of the Portuguese Republic. In doing so, the Portuguese National Commission for UNESCO tried to highlight the role of Earth Scientists as key players in building a sustainable world and also to show to society at large how Earth Sciences can help future generations meet the challenge of ensuring a safer and more prosperous world. The Portuguese Committee for IYPE was thus created by the Portuguese National Commission for UNESCO, in April 2007, with a view to promote Scientific and Outreach Programmes of the IYPE.

The twelve brochures produced for each theme by the IYPE Corporation, were translated into Portuguese and a website was specially created and developed (www.anoplanetaterra.org, www.anoplanetaterra.org) for the triennium. The Committee has been sponsored by CARRIS, BAYER – Portugal, Águas de Portugal, EDM, and EDP – Portugal and PETROBRÁS (Brazil) and has as Media Partners, National Geographic – Portugal and the Public television channel – RTP.

The Committee is composed by 370 members belonging to different sectors, namely universities (public and private universities), research centres, schools, foundations, institutes, municipalities, national committees of UNESCO Programmes (IHP, MAB, IOC), private sector, a ballet company, NGOs, associations, museums, the Portuguese Geopark Naturtejo and Geopark Arouca, agencies, Academy of Science and other Academies, Ciência Viva – Science Alive, UNESCO clubs, individuals, among others. This kind of membership has allowed for useful synergies and interesting partnerships and has stimulated an increasing number of events (around 500) based on a multiplying factor of best practices and shared experiences with the main objective to reach civil society.

We have also cooperated in this field with other IYPE National Committees, especially those from the Portuguese-Speaking African Countries. Due to our efforts and dynamics we were invited by the IYPE Corporation to co-organise and host the Event of the IYPE (Lisbon, 20 to 22 November 2009). Although the IYPE is coming to an end, it is our goal, in the forthcoming years, to continue with this work and to give growing visibility to the UNDESD and to the IYPE issues.



**CHAIR OF THE ORGANIZING
COMMITTEE OF THE PLANET
EARTH LISBON EVENT 2009**
Eduardo de Mulder

In Lisbon a worldwide event is held to highlight main results of the IYPE and to launch new initiatives building on the IYPE legacy. Invited by the Government of Portugal, the Planet Earth Lisbon Event 2009 (PEL2009) is organized by IYPE, the Portuguese National Committee for IYPE and Bombazine, a professional event organizing company.

PEL2009 aims to bring together scientists, politicians and industrial leaders to celebrate the closing of the International Year of Planet Earth triennium (2007-2009), to evaluate the results of the IYPE and to look ahead. This forward look will dominate the Event and is reflected in the PEL2009 subtitle: Planet Earth, Present for the future! A new initiative, The Planet Earth Institute, built on the legacy of the International Year of Planet Earth and with a much longer and wider reach, involving a worldwide network of National Committees and International Partners, is shaping up now.

PEL2009 will address three important themes which are close to the heart of IYPE and examples of Sustainable Development: Renewable Energy, Sustainable Land & Water Management, and Planet Ocean. These themes will be highlighted from the points of views of politics, science and industry. Moreover, by inviting 2 students from each of the 80 IYPE Nations, the Event organizers emphasize the important role for the next generations in reaching the sustainable development goals of the United Nations. An impressive number of political leaders, captains of industry and leading scientists have committed to participate.

ASSISTANT DIRECTOR GENERAL OF UNESCO



**ASSISTANT
DIRECTOR-GENERAL
FOR NATURAL
SCIENCES, UNESCO**
Walter Erdelen

Assistant Director-General for Natural Sciences, UNESCO, since 2001. Ph.D. in Ecology and Zoology from the University of Munich, and habilitation in Biogeography from the University of the Saarland. Following positions at the University of Munich, the Zoological Museum in Munich, and Saarland University, in 1995 he was appointed Professor of Ecology and Biogeography at the Institute for Animal Ecology and Tropical Biology and Director of the Ecological Field Station, University of Würzburg. In 1997, appointed visiting Professor at the Dept. of Biology, Institute of Technology, Bandung, Indonesia. Author of scientific books, over 70 scientific papers and reviews, he recently led the publication of Sixty Years of Science at UNESCO: 1945-2005.

PROGRAMME



THURSDAY
19 NOV

- 17.00 **OPENING WORLD PRESS PHOTO EXHIBITION** | BESA PAVILION
- 18.00 **PRESS CONFERENCE ON IYPE BOARD MEETING RESULTS** | BESA PAVILION
- 19.00 **RECEPTION HOSTED BY MAYOR OF LISBON** | CITY HALL

FRIDAY
20 NOV

CAMÕES THEATRE

- 08.00 **RECEPTION AND REGISTRATION OF PARTICIPANTS** | CAMÕES THEATRE
- 09.30 **OPENING CEREMONY**
IYPE Geo-Movie Intro
Message by the President of the Republic of Portugal | Aníbal Cavaco Silva
Welcome by the President of the Portuguese Commission for UNESCO | Fernando Andresen Guimarães
Welcome by the President International Union of Geological Sciences | Alberto Riccardi
Welcome by the Director General UNESCO | Represented by ADG Walter Rudolf Erdelen
“Present for the Future” by the Executive Director IYPE Secretariat | Eduardo de Mulder
Message by the President of the European Commission | José Manuel Durão Barroso

10.30 **COFFEE BREAK**

- 11.00 Portuguese National Committee for the IYPE Movie Intro
Statement by the former President of the Republic of Portugal | Mário Soares
Statement by the Minister of Environment and Spatial Planning Portugal | Dulce Pássaro
Statement by the Minister of Education of Cape Verde | Vera Duarte
Statement by the Minister of Environment of Angola | Fátima Jardim
Statement by the Minister of Research & Higher Education of Norway | Tora Aasland
Statement by the Minister of Education & Vocational Training of Tanzania | Jumanne A. Maghembe
Statement by the Executive Secretary of CPLP | Domingos Simões Pereira

CAMÕES THEATRE

12.45 **LUNCH**

- 14.00 **GEO-SONG STUDENT PERFORMANCE**
- 14.10 **GENERAL INTRODUCTION TO THEMES** | AUBREY MANNING
- 14.30 **CONFERENCE 1 | RENEWABLE ENERGY**

Introduction | Andrea Licciardi (Italy)
Moderator | Humberto Rosa, Secretary of State for Environment (Portugal)
Setting the stage | Manuel Pinho, former Minister of Economy & Innovation (Portugal)
Science perspective | Jean-Claude Autrey, General Secretary ISSCT (Mauritius)
Industry perspective | António Mexia, CEO EDP (Portugal)

16.00 **COFFEE BREAK**

CAMÕES THEATRE

- 16.30 **CONFERENCE 2 | SUSTAINABLE LAND & WATER MANAGEMENT**
 Introduction | Catherine Abon (Philippines)
 Moderator | Ruud Lubbers, former Prime Minister of the Kingdom of the Netherlands and Patron of IYPE (The Netherlands)
 Science perspective | Selliah Paramanathan (Malaysia)
 Industry perspective | Edward Bickham (United Kingdom)
- 17.50 **ONE GEOLOGY**
 EuroGeoSurveys | Marko Komac (Slovenia)
- 18.00 **AWARD CEREMONY**
- 19.00 Closing by the Prime Minister of Portugal | José Sócrates
- 19.30 Dinner (Coimbra University Quantunna Tuna Performance)
- 21.30 Cultural performance Kamu Suna Ballet “Love the Earth”

SATURDAY
21 NOV

OCEANARIUM AND KNOWLEDGE PAVILION

- EXHIBITIONS OPEN TO THE PUBLIC ALL DAY | KNOWLEDGE PAVILION**
- 09.30 **CONFERENCE 2 | SUSTAINABLE LAND & WATER MANAGEMENT (Continued)**
 Political perspective | Gerda Verburg, Minister of Agriculture, Nature and Food Quality of The Netherlands and past President Committee of Sustainable Development UN
- 10.00 **CONFERENCE 3 | PLANET OCEAN | OCEANARIUM**
 Opening | João Gomes Cravinho, Secretary of State for Foreign Affairs and Cooperation (Portugal)
 Introduction | Mr. Tomaru (Japan)
 Moderator | Mário Ruivo, President of the Portuguese Committee for the IOC (Portugal)
 Speaker | Chérif Sammari, Vice-President of IOC (Tunisia)
 Speaker | John Delaney (USA)
 Speaker | Harsh Gupta (India)
 Closure | 13.15
- 09.30 **CONFERENCE FOR NATIONAL IYPE COMMITTEES | AUDITORIUM KNOWLEDGE PAVILION**
 Chair | Werner Janoschek Rapporteur | Morten Often
 Welcome
 Tour de Table
 Results of IYPE Questionnaire (Eduardo de Mulder)
 The Future & Position of National Committees (Eduardo de Mulder)
 Discussion
 Coffee break
 PRESENTATIONS:
 NC Portugal (Maria Helena Henriques)
 NC Costa Rica (Enid Gamboa)
 NC USA (Jack Hess)
 NC South Africa (Maarten de Wit)
 NC Korea (Yu Jae-Young)
 NC Brazil (Carlos Oiti Berbert)
 NC France (Denis Vaslet)
 Closure | 13.15

OCEANARIUM AND KNOWLEDGE PAVILION

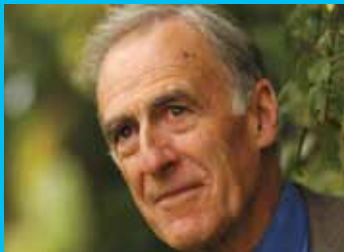
- 13.30 **PRESS CONFERENCE | BESA PAVILION PRESS ROOM**
- 14.00 **CONFERENCE “YOUTH & EARTH” | AUDITORIUM KNOWLEDGE PAVILION**
 Chair | Wesley Hill Rapporteur | Telma Almeida
 Welcome
 Tour de Table
 Introduction | Eduardo de Mulder
 PRESENTATIONS:
 YES: ambitions, organization & congress | Luca Micucci & David Govoni
 IUGG Youth Congress | Aliik Ismail-Zadeh
 Big Mama | Anne Walraven
 Earth Science Olympiads | Yu Jae-Young
 Brainstorm Session | Sophie Vermooten
 Open discussion
 Closure | 16.00
- 15.30 **CONFERENCE “IYPE & INTERNATIONAL PARTNERS” | OCEANARIUM**
 Chair | John Ludden Rapporteur | Mauricio Fernandes
 Welcome
 Tour de Table
 PRESENTATIONS:
 Introduction | Larry Woodfork, Chair of the IYPE Board
 Bank of the Planet 2009 | Álvaro Sobrinho, CEO IYPE Partner BESA
 IYPE & European Geological Surveys | Luca Demicheli, Secretary-General of IYPE Partner
 Coffee break
 IYPE & Science Books | Robert Doe, Senior Publisher of IYPE Partner Springer Verlag
 IYPE & the Media | Nicolau Santos, News Director
 IYPE & International Networks | Wolfgang Eder, Goodwill IYPE Ambassador
 The Future | Eduardo de Mulder, Executive Director IYPE Secretariat
 Open discussion
 Closure | 18.30
- 16.00 **CONFERENCE “PLANET EARTH AFRICA” | AUDITORIUM KNOWLEDGE PAVILION**
 Chair | Mohammed Sheya Rapporteur | Felix Toteu
 Welcome
 Tour de Table
 IYPE and Africa | Sospeter Muhongo
 PRESENTATIONS:
 Earth Science Initiative for Africa (Sarah Gaines)
 Geological Society of Africa (Aberra Mogessie)
 African Forum for Sustainable Development (Vladimir Russo)
 African Alive Corridors Project (Felix Toteu)
 Open discussion
 Closure | 18.00
- 18.00 **TOUR IN OCEANARIO**

SUNDAY
22 NOV

EXHIBITIONS OPEN TO THE PUBLIC ALL DAY | KNOWLEDGE PAVILION

THEMES

GENERAL INTRODUCTION TO THE THEMES



AUBREY MANNING
INDEPENDENT CORRESPONDENT

Born in London in 1930 and read zoology in London and Oxford, specialising in animal behaviour. Appointed to staff of Edinburgh University, retiring as Professor of Natural History in 1997.

Subsequently he became much concerned with the public understanding of science and especially with earth scientists through presenting Earth's history and landscape programmes on BBC TV. Appointed a Goodwill Ambassador for IYPE in 2005 and since involved in several outreach programmes.”.

THEME 1

RENEWABLE ENERGY

The world is facing a massive energy and environmental challenge. Energy demand is growing and production is unevenly distributed around the globe. Europe imports half of its energy now and this will rise to two-thirds by 2030. Growing energy consumption not only threatens economies and political stability, it also impacts upon the environment, including climate change. Energy and environmental challenges provide enormous opportunities for science and technology. Apart from finding new oil and gas resources, knowledge of the Earth is increasingly needed in the process of identifying renewable energy production and energy saving options, including geothermal energy, warm and cold water storage, underground pump accumulation, and building underground cities. This Theme explores these and other novel methods of achieving sustainable energy production and consumption.

SPEAKERS



ANTÓNIO MEXIA
PORTUGAL
CEO of EDP

António Mexia graduated as economist in the University of Geneva. He taught European Studies and was appointed Director of the University Católica since 1982. After having served as the Vice Chairman of the Board of Directors of ICEP, he became Director of the Banco Espírito Santo de Investimentos. From 1998 to 2004, António Mexia held top positions in Gás de Portugal, Transgás, Transgás-Atlantico and Petrogal (Chairs of the Board) and Galp Energia (Vice-Chair of the Board and Executive Chairman). He was appointed Minister of Public Works, Transport and Communication in 2004. Today, António Mexia is the Chief Executive Officer of EDP.



MANUEL PINHO
PORTUGAL
FORMER MINISTER OF ECONOMY
AND INNOVATION

Manuel Pinho was appointed Professor at the University of Lisbon in 1982. From 1985 to 1989 he worked as an economist for IMF. Since 1990, he held several high-level national, European and global positions in finance, before being appointed as Minister of Economy and Innovation in 2005-2009. In that period Portugal became one of the world's leading nations in renewable energies and mobility. In 2007, Manuel Pinho was the President of the European Councils of Ministers for Energy and for Competitiveness and Transatlantic. He is the author of 'Europe's New Energy Era', on which the European Technology Plan for Energy was based, approved by the European Council of Ministers in 2008.



JEAN-CLAUDE AUTREY
MAURITIUS
GENERAL SECRETARY ISSCT

Dr Jean Claude Autrey, graduated from London and Exeter Universities in the UK, is a chartered biologist. He dedicated most of his career to the Mauritius Sugar Industry Research Institute (MSIRI), as Director from 1996 to 2007. Among other duties, Dr. Autrey is the General Secretary of the International Society of Sugar Cane Technologists (ISSCT), the Science Advisor to SEKAB Bioenergy Tanzania Ltd, involved in biofuel production from sugar cane and Chair of the ACP Scientific Committee on Sugar. He wrote more than 200 scientific publications and reports. For his contribution to agricultural research and development Dr. Autrey received several national and international distinctions.

THEME 2

SUSTAINABLE LAND AND WATER MANAGEMENT

From time immemorial, the land has been used mainly to serve our needs for food, shelter, work, materials and leisure. However, misuse and mismanagement resulted in soil pollution and degraded lands. Population growth and rapid urbanization further reduced land availability for food production and other purposes, while other areas of land were protected and transformed into natural parks. Land and water are essential components of our life-support system. New technologies have and are being developed to decontaminate polluted soils and waterways. These will help to improve the quality of our land and water systems. Improved understanding of the natural composition of the surface and subsurface may lead to even better land management. The same holds true for water management, including groundwater, river basins and coastal zones. Innovative, holistic and knowledge-based approaches support sustained development while properly addressing environmental issues.



SPEAKERS



S. PARAMANANTHAN
MALAYSIA
AUTHOR AND LECTURER

S. Paramanathan graduated as geoscientist from the University of Malaysia in 1965 and joined the national Soil Survey Division and one year later. He received his doctorate from Ghent University. He was the Head of the Soil Survey Peninsula Malaysia until he became Associate Professor at the Agricultural University Malaysia, in 1980. Since 1990, he was the creator and Managing Director of the Param Agricultural Soil Survey. Dr. Paramanathan has been a member of several International Soil Classification Committees and has conducted fieldwork on soils in a wide variety of Asian and African countries. He is the author of over 70 scientific papers, including the Malaysian Soil Taxonomy, valid for entire Malaysia.



GERDA VERBURG

THE NETHERLANDS

MINISTER OF AGRICULTURE
NATURE AND FOOD QUALITY,
THE NETHERLANDS, PAST
PRESIDENT COMMITTEE OF
SUSTAINABLE DEVELOPMENT UN

Ms Verburg has a background in the private sector and also served in several Dutch public organizations, for example in the capacity of board member of the CNV (National Federation of Christian Trade Unions). She has been a Member of Parliament from 1998 to 2007, responsible for social affairs. In 2007, Gerda Verburg was appointed Minister of Agriculture, Nature and Food Quality in The Netherlands. In the Netherlands and abroad she is very much involved in matters of sustainable agriculture, food security and rural development. Ms Verburg has been Chair of the 17th Session of the UN Commission on Sustainable Development. She also presided the 14th Session of the Conference of Parties of the International Conference on the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) in June 2007.



EDWARD BICKHAM

UNITED KINGDOM

BOARD MEMBER OF THE
EXTRACTIVE INDUSTRIES
TRANSPARENCY

Edward Bickham was Executive Vice President, External Affairs for leading mining company, Anglo American 2000-2009. His responsibilities included public policy, communication, ethics and community development. He pioneered the development of Anglo's award-winning Socio-Economic Assessment Toolbox designed to improve the developmental impacts of its mining activities and drove the expansion of the Company's extensive enterprise development programmes. He played a leading external role within the International Council on Mining and Metals as chair of its Human Rights and Communications groups, as a Board member of the Extractive Industries Transparency Initiative (2006-09) and in the development of the Investment Climate Facility for Africa and the Voluntary Principles on Security and Human Rights.



THEME 3

PLANET OCEAN

Oceans are critical in regulating the Planet's climate but, at the same time, they are the least explored areas of the Earth. This theme will address physical, biological, conservational and ecological aspects of Oceans and their interaction with the surrounding continental shelves and coastal lands. In addition, issues as Ocean governance, regional cooperation in Oceanography and the role of UNESCO's Intergovernmental Oceanographic Commission will be discussed. Attention will also be paid to major threats originating on the ocean floors, notably including tsunamis and their impact on coastal zones. Scientific results of the 2004 Indian Ocean tsunami will be presented and compared with historic events, including the Great Lisbon Earthquake of 1755.



HARSH GUPTA
INDIA

**INDIAN OCEAN AND
LISBON TSUNAMIS**

Gupta is a Geophysicist. He specialized in developing and applying of geophysical techniques to address problems on continents and oceans. He provided the first geophysical evidence of an anormously thick crust below Himalaya & Tibet Plateau in 1967. Gupta pioneered studies on artificial water reservoir triggered earthquakes and generated criteria to discriminate them from normal earthquakes. After the 26th December 2004 mega tsunami, he designed the Indian Tsunami and Storm Surge Warning System, which became totally operative in August 2007. Former Secretary, Govt. of India, Department of Ocean Development. He is now President of the Geological Society of India; Vice President of IUGG; and Raja Ramanna Fellow, National Geophysical Research Institute, Hyderabad, India.



JOHN DELANEY
USA

RESEARCH OCEAN LIFE

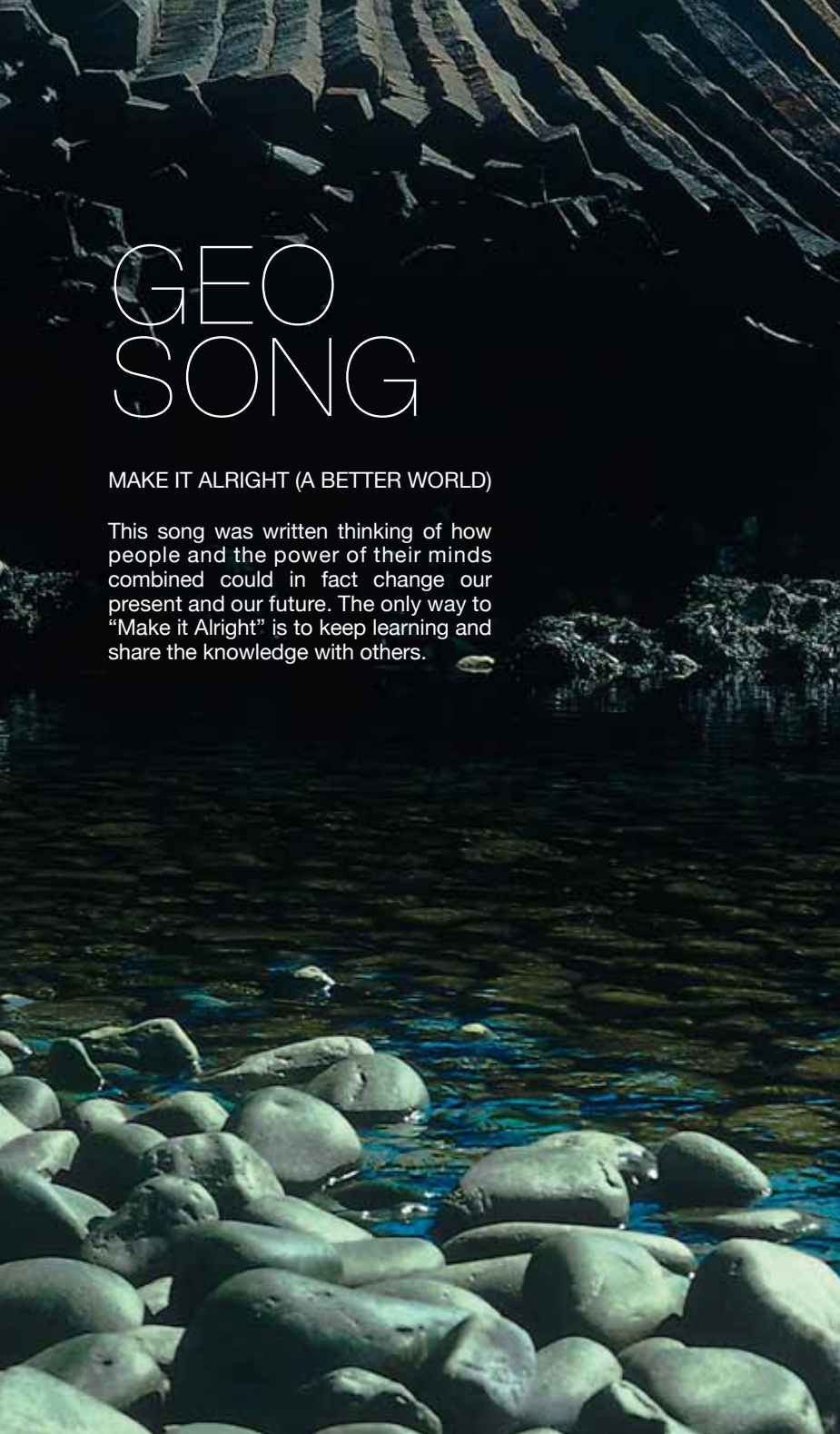
John Delaney holds the Jerome M. Paros Endowed Chair at the University of Washington. A Fellow of the American Geophysical Union and Director/Principal Investigator of the Submarine Cabled Observatory component within the U S NSF Ocean Observatory Initiative (OOI), Delaney's team will design, install, and operate, for 25-years, an innovative, Internet-connected, full-ocean research infrastructure based on a network of industry-standard submarine fiber-optic cables. This system will provide unprecedented power and bandwidth to allow interactive human tele-presence within the oceans connected to 1000's of fixed and mobile sensor-robot packages able to detect and respond to energetic, transient events like giant storms, large earthquakes, and erupting volcanoes in ocean basin.



MÁRIO RUIVO
PORTUGAL

**PRESIDENT PORTUGUESE
COMMITTEE FOR IOC**

Mário Ruivo career started at the University of Lisbon. He participated in the first Portuguese deep water dives on the Bathyscaphe FNRS III. After an active period of research on ecology and management of fish stocks in the Mediterranean, the Portuguese Coast and the North Atlantic, Prof. Ruivo was appointed national expert/delegate to various international organizations such as ICES and ICNAF. He was Director of the Division of Aquatic Resources and the Environment of FAO (Rome), Executive Secretary of the IOC/UNESCO (Paris), Scientific Advisor of EXPO'98, Coordinator of the Independent World Commission on the Oceans (IWCO), Member of the Strategic Commission for the Oceans and invited Full Professor at the University of Oporto/ICBAS. Presently, Prof. Mário Ruivo is Chairman of the: National Intersectoral Oceanographic Commission/Ministry of Science, Technology and Higher Education (COI-MCTES); National Council for the Environment and Sustainable Development (CNADS) and National Forum for Maritime Affairs (FPAM). He is author of numerous scientific publications in Biological Oceanography, Ecology and Management of Fisheries Resources, as well as studies, essays and articles on Ocean Policy and Governance, Environment and Sustainable Development and Science, Society and Ethics. Prof. Ruivo has been involved in the promotion of Public Awareness of the Environment and Ocean Affairs within the framework of Sustainable Development.



GEO SONG

MAKE IT ALRIGHT (A BETTER WORLD)

This song was written thinking of how people and the power of their minds combined could in fact change our present and our future. The only way to "Make it Alright" is to keep learning and share the knowledge with others.

LYRIC

MAKE IT ALRIGHT (A BETTER WORLD)

the more we know the planet
the more we can do
A better world
is in our hearts
...and with our minds we can make it true

some people say it's easy
some say it's way too hard
but you and I
both of us know
that together is the way to start

'been learning from the waters
earth and skies too
what I've found
i'm giving away
cus everything's for me and you

there's no more ways to hide it
or to look the other way
all this changes
are going so fast
our sweetest blue is turning gray

Hey you
can make things better

yeah you
Lets make it right

Hey you
and me together
together we can make this right

Hey you
can make things better

yeah you
Lets make it right

Hey you
and me together
together we can make this right
together we can make it fine

Hey you
can make things better

yeah you
Lets make it right

Hey you
and me together
together we can make this right
together we can make it alright

SOCIAL PARTNER PROJECT

NOVO FUTURO ASSOCIATION is a non-profit organization, with no profits, recognized as a Private Institution of Social Solidarity. The objective is to support children and young people who do not have an adequate family environment, no matter what age, colour, gender or religion.

Novo Futuro shelter them in homes with a good family environment to ensure their well-being, affection and education. Here, their privacy is respected; "we promote their development and personal advancement towards full integration into society".

For every child that Novo Futuro shelters they accept the educational, legal, moral and social responsibilities expected of natural parents. Novo Futuro monitors children's physical development, including food and healthcare, psychological development, cognitive, care and emotional balance, as well as social development (school, sports, free time occupation and holidays) according to age, life pathway and personal characteristics.

"MAD SCIENCE" delivers the children of Novo Futuro a unique, hands-on science experiences to entertain and educating. Mad Science is proud to introduce millions of children to a world of discovery while sparking their imagination. "MAD SCIENCE" encourages scientific literacy in children in an age when science is as vital as reading, writing and arithmetic.

The result of this joint creative work, with several artistic projects, is presented at the foyer of Teatro Camões.



PORTUGUESE NATIONAL COMMITTEE FOR THE INTERNATIONAL YEAR OF PLANET EARTH



COORDINATOR OF THE PORTUGUESE COMMITTEE FOR IYPE

Maria Helena Henriques

The Portuguese National Committee for the IYPE was created in the framework of the Portuguese National Commission for the UNESCO, in April 2007, and its structure integrates 370 organizations, belonging both to private (24%) and public (76%) sectors, including municipalities and education agents of all levels. More than 500 activities have been implemented in the country since, 86% of them included in the Outreach Programme of the IYPE. The Scientific Programme emphasized relevant cooperation between earth scientists from the Community of Portuguese Speaking Countries, under the aim of their National Committees (Angola, Brazil, Cape Verde and Mozambique). Thinking about such community of 230 million people, the NC Portugal translated the twelve brochures produced by the IYPE Corporation into Portuguese, available at the NC website (www.anoplanetaterra.org, www.anoplanetaterra.org), and supported several editions, also in Braille, aiming to bring earth sciences to all citizens. As a result of our performance during the IYPE triennium (2007-2009), the Portuguese National Committee was invited by the IYPE Corporation to co-organize the Planet Earth Lisbon 09.



RESPONSIBLE FOR THE SCIENCE SECTOR – PORTUGUESE COMMISSION FOR UNESCO MEMBER OF THE EXECUTIVE COMMISSION OF THE PORTUGUESE COMMITTEE FOR IYPE Elizabeth Silva

When the Portuguese Commission for UNESCO created the Portuguese Committee for the International Year of Planet Earth - IYPE it was our aim to disseminate the IYPE objectives at a national level.

Beyond our expectations, more than 370 organizations including universities, research centres, schools, foundations, institutes, municipalities, private sector, and a ballet company, NGOs, associations, museums, the Portuguese Geoparks Naturtejo and Arouca, Academy of Science, Science Alive Centres among others, joined on a voluntary basis.

This kind of membership has allowed for useful synergies and interesting partnerships and has stimulated an increasing number of events, based on a multiplying factor of best practices and shared experiences throughout the triennium of the IYPE.

With a view to share with the participants of PEL2009 the work done by the Portuguese Committee for IYPE, giving especial attention, for example, to the effort by teachers and city halls who have worked together in this field, to the number of books published by many Portuguese scientists and artists and to companies publicly vouching their social responsibility, some members, sponsors and partners, due to their outstanding achievement during these three years, were invited to share with all visitors, at the Knowledge Pavilion, their activities, educational projects and other events.

Twenty-five stands belonging to members, sponsors and partners can be visited at the Knowledge Pavilion, during PEL2009 and all participants are welcome to join us and discover the Planet Earth secrets, through a fascinating field trip between fossils, landscapes, volcanoes, earthquakes, stories and myths, through the sound of Portuguese traditional music...Lets us all celebrate PLANET EARTH!

1 GROUP OF SCHOOLS “PROF. NORONHA FEIO / SCHOOL EB1/JI NARCISA PEREIRA (UNESCO ASP NET)

Display of Works (scale models, drawings, photographs, panels, posters) concerning the exhibition “Once upon a time the Earth” – International Year of Planet Earth, held on 21st -22nd April 2009, sponsored by the Portuguese National Commission for UNESCO in cooperation with “Agrupamento de Escolas Professor Noronha Feio” (Oeiras) under the responsibility of Elizabeth Silva and Childcare Experts Isabel Martins and Alexandra Moura. Works were based on “Contos da Dona – Tails of Ms. Earth”, a book that was used to commemorate the “Book World Day” - 23rd April 2009. Works done by: Children from Pre-elementary school, Elementary school and CTL (Free time Center) of School EB1/JI Narcisa Pereira, Children from Elementary school of School EB1 Gil Vicente, Users of Day Care Centre of Queijas Church, Parents and people in charge for Child Education.

2 SECONDARY SCHOOL “DR. GINESTAL MACHADO” (UNESCO ASP NET)

The school will present an exhibition about the projects that are being developed at the moment. These projects include an intervention among the community to become aware the respect toward the planet Earth. It will be displayed posters and photographs with all the information and activities that were made by the students and teachers.

3 SECONDARY SCHOOL “SÁ DA BANDEIRA” (UNESCO ASP NET)

The Secondary School of Sá da Bandeira, in Santarém, was established in 1843. The given curriculum belonged to the area of the Humanities: French, Latin, Rhetorical and History but, some years later, started to integrate Positive and Natural Sciences. Since 1994 it belongs to the UNESCO ASP net and, in, 1998, it organised the first Meeting of Young Scientists that, since the third it has been receiving students from Spain and Brazil. The eleven meetings already carried out had approached subjects as the scientific research (Astronomy, Biology, Physics and Chemistry), Human Rights, Heritage but the subject more investigated by the participants has been the Sustainable Development.

4 ARTS AND CRAFTS INSTITUT – UNIVERSIDADE AUTÓNOMA DE LISBOA (UNESCO ASP NET)

The project Learning to Think with Hands, it's the “Instituto de Artes e Ofícios” – Arts and Crafts Institut aim's. This ASP net School intends to stimulate professional interest in cultural awareness and endangered plastic arts and crafts which have to be defended.

This exhibition, Celebrating Natural Sciences, will celebrate natural science with some species representations, and welcomes the visitants to know the work of Pedro Salgado's students. The Professor is the Director of the Science Illustration Program at the I.A.O. and he is a prize-winning Portuguese marine biologist and the greatest mentor in Portugal for scientific illustration.

5 VALSASSINA SCHOOL (UNESCO ASP NET)

“Think the Earth, Act n it Valsassina” is the challenge that the whole school community face bearing in mind the 7th Millenium Development Goal. The great result would be to change socio-environmental behaviour in order to achieve sustainability. At the Valsassina school corner there will be a variety of activities to welcome the visitors such as: to invite the newcomers to calculate the impact each one of us causes on the environment (the ecological footprint) or to analyse the waste produced daily. Visitors will also be able to test their knowledge by playing “Eco-Trivial”, a board game created by the Valsassina students.

6 STAND PREAA – CONTOS DO MAGO

“Have you met the Medusa Xis? What about Ammonite Nuno Surfomite? And Mermaid Seixa? They are waiting for you at Direção Regional de Educação do Algarve - “Contos do Mago”, stand to take you on a journey through the Paleo, Meso and Ceno ages. A journey that Algarve schools have already taken: a tale, a hiking trail, a project. The “Contos do Mago” have been kept in a book which will be launched on the 21st, November at 6 pm. Beautiful stories will be waiting for you.

7.8.9.10. STAND SCIENCE ALIVE

Ciência Viva has been fulfilling its mission of promoting science and technology through three main axis: support to schools, initiatives for the general population and the creation of a national network of Ciência Viva science centres. Work with schools aims at the development of a culture of scientific experimentation. This involves implementing and supporting science projects in basic and secondary schools, and organizing a national program of internships for secondary school students in scientific institutions during the summer holidays. For the general population there are nationwide activities that promote science and scientists, through a yearly program of summer activities, “Ciência Viva no Verão”, and through the promotion of several events as the national Science and Technology Week, Space Week or Brain Week, among others. The national network of Ciência Viva Science Centres currently includes 18 centres, designed as interactive spaces to promote science awareness for the general public. These centers, involving the most important regional institutions, are also platforms for regional Scientific, cultural and economic development. During the final ceremony of the International Year of Planet Earth the public will get acquainted with some of the projects in which Ciência Viva has been involved as organizer, supporter or partner.

11 STAND – INTERNATIONAL YEAR OF ASTRONOMY

The Portuguese Commission for the International Year of Astronomy intends to have the following activities: An exhibit explaining the strong relationship of Astronomy and Earth Sciences. A sample of materials made available during 2009 at a national and international level. Information about the main programs implemented worldwide with special emphasis in the national activities. Astronomy activities for kids. Solar and nocturne observing sessions with telescopes. The stand will also present: IYA2009 trailer, “Eyes on the Skies”, “400 Years of the Telescope”, “BLAST” and a slide show with the images of the “From Earth to the Universe” exhibit.

12 STONE MUSEUM – MUNICIPALITY OF CANTANHEDE

The Museu da Pedra (Stone Museum) of Cantanhede's Municipality, awarded in 2001 with the Honorable Mention for Best Portuguese Museum, and in 2006 with the National Award of Geoconservation will develop several educational activities that contribute to the awareness of visitors on issues of preservation and development of cultural and environmental heritage. These actions include recreational and educational activities around the central theme of the museum - the stone - seen from several perspectives: archaeological, paleontological, geological, historical and artistic.

13 TAPADA NACIONAL DE MAFRA

Visiting our stand you will travel along the Tapada and get to know a real natural jewel, where history, biodiversity, recreation and environmental education live in perfect harmony. For children who visit us, we have four activities that define us; find textures and colours of the leaves, investigate the form of insects, and through games, understand the importance of forests in our daily lives.

14 OPEN UNIVERSITY – UNIVERSIDADE ABERTA

Universidade Aberta (UAb), a public distance-teaching university, as the central mission of training all those that for whatever reasons were not able, at the appropriate time, to enter or complete higher education studies. At the same time, Universidade Aberta tries to meet the expectations of those who, having obtained a university qualification, wish to convert or update it. This means that, by vocation, we try to answer the expectations of an adult public with life experience and for the most part already pursuing a professional career. At this event the Universidade Aberta presents a space where besides leaflets, pamphlets and other pieces of information on the pedagogical activities of the university, visitors are invited to join us in a project designed to value people and society. In this area intended to share experiences, to promote knowledge and to develop skills a unique series of practical experiences in scientific areas such as geology, physics and chemistry, will take place. Because Education is one of the most important factors for sustainable development we chose to refer to a few broad multidisciplinary concepts to illustrate some of the key themes in which the Earth contributes to life and society, as addressed in the Science Programme

15 CARRIS

CARRIS...Better mobility Better Environment For the international Event about “International Year of Planet Earth” CARRIS stand offers you a totally different view about surface public transport and shows you how it is possible to contribute to Lisbon sustainable development. You'll find there also activities for children. Carris, linhas com vida

16 EMPRESA DE DESENVOLVIMENTO MINEIRO - EDM

EDM is focussed, by a Portuguese State Concession, on the rehabilitation of mining legacies of the past, in the form of abandoned sites. The EDM stand presents images and descriptions of the work performed. Raw materials are essential for modern living, crucial for the sustainable development of modern societies and vital for the sound functioning of the world economy. It is also mission of EDM to promote innovative exploration and to contribute for strategic thinking and policy innovations, for a better assessment of the mineral endowment of the natural Resource Base of Portugal. Some of these activities are illustrated.

17 EDP

Educational Project “The Environment belongs to all of us” This project aims to reach youth and alert them to the problem of climate change and the issue of energy efficiency, showing that, with small actions, we can all win. This project has involved about 500 teachers and 44 000 students and an educational kit has been produced designed to facilitate the understanding of this issue in schools. The awards are given to schools in order to help them to make a better use of energy. The choice of a more efficient lighting and the use of solar panels for heating hot water are just some examples.

18 BAYER

Acting Responsibly – Creating Opportunities: Social responsibility has been an integral part of Bayer's corporate policy for over 100 years. Today the group not only has business operations in some 150 countries, but is also working towards solving social problems and managing global challenges via a range of initiatives on the ground. The aim of these activities is to improve people's future prospects. Bayer Portugal supports several important projects on education, research and climate protection. Examples of these are the partnerships established with the UNESCO National Commission, “International Year of Planet Earth”, PLANET EARTH – Earth Sciences for Society, “IQMM” - Ideias que Mudam o Mundo / Science For A Better Life —scholarship-programme (concept to deliver conscience on youngsters that science must be used to improve people's quality of life) with the institutional support of the UNESCO National Commission and the Ministry of Education, also with Tapada de Mafra - reforestation campaign, integrated in UNEP's worldwide “The Billion Tree Campaign” partnered by Bayer and the local promotion of the “18th International Children's Painting Competition” on climate protection in partnership with UNEP.

19 STAND AUCHAN

The Rik&Rok/Auchan stand will develop several children's activities linked to the project ECOPOLIS. ECOPOLIS is a children's edutainment project launched during 2009 creating a national challenge for kids from 6 to 11 years old to develop a sustainable environment project. We will have an internet site where they can surf and play the challenge ECOPOLIS as well as gaming cards.

20 STAND PORTUGUESE COMMITTEE FOR THE IYPE / PORTUGUESE NATIONAL COMMISSION FOR UNESCO

With the aim to reach civil society as highlighted by the subtitle of the IYPE: Geosciences for Society, the Portuguese Committee for the IYPE will share information about members who have joined the Committee and the events that have been promoted at a national and International level, focusing also the cooperation with other National Committees. Here one can find leaflets, brochures, story books about IYPE issues (for example, “Tails of Mrs. Earth”), IYPE Portuguese products and the exhibition of films about the Portuguese Committee activities.

21 STAND AROUCA GEOPARK

Recognized unanimously by EGN/GGN/UNESCO in April 2009, the Arouca European and Global Geopark has been claimed by the excellence of its Geological Heritage, with particular attention to the Giant Trilobites and the “Rocks Delivering Stones”. Around the 41 geosites of the territory we promote Tourism, Education, Science and Sustainable Development. You may find a “small view” of our territory in the Arouca Geopark stand through promotional material, educational workshops, regional products and even spread out through the event with a climbing tower and the Moldes songs.

22 STAND NATURTEJO GEOPARK

“The stand «Geopark Naturtejo Meseta Meridional - share a moment of deep Time» is the right place to mingle past landscapes with present cultures and new challenges. A room full with images of the best protected geosites where you can also find movies about the Geopark and all initiatives under the IYPE, a cyber-kyosk linking the Geopark with European Geoparks Network and interactive games in the educational area. Enjoy genuine cultural events with the “Adufe” women players proud of living in a Geopark.”

23.24.25 STAND AZORES

These three stands will be divided in Portuguese Biosphere Reserves (Corvo, Graciosa and Flores Islands), Interpretation Centre of the Capelinhos Volcano and future candidature of Azores Geopark. There will be three different areas:

The “Information Area”, which uses several posters with information on the UNESCO Classified Areas (Man & Biosphere and World Heritage), Regional Network of Protected Areas, Science Centers and Observatories, Interpretation Centers (with particular reference to the Capelinhos Volcano Interpretation Center), regional networks of Museums and Environmental Education (“Ecotecas”). The “Exposition Area”, where the Azores products will be presented, namely of gastronomy, handicrafts, merchandizing, publications and touristic, by a “virtual book”. At the “Experimental Area” visitors can interact with the stand and carry out activities on issues related with the Azores Island, namely with a seismographic station, a kit on volcanic rocks, “make up a volcano”, drawings and paintings, etc.).

