

## WSF 2013 - SPEAKERS PROFILES



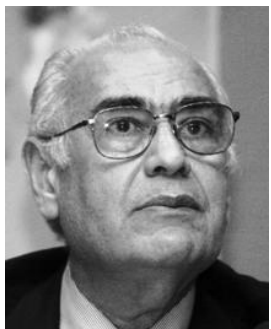
**Adalberto Val**

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**BRAZIL**

Adalberto Val is a researcher at The National Institute for Research in the Amazon. Since 1982, he studies respiration and adaptation of fish to Amazon environmental changes, both natural ones and those caused by men. As visiting professor and post-doc fellow at the University of British Columbia, he lived in Canada between 1990 and 1993. He is an active member of several scientific societies: Brazilian Society for the Advancement of Science (SBPC), Brazilian Society of Physiology (SBFis), Canadian Society of Zoologists (CBZ), Brazilian Society of Genetics (SBG), American Fisheries Society (AFS), British Isles Fisheries Society (BIFS), The Society of Experimental Biology, and South American Society for Comparative Physiology and Biochemistry. He also acted as Regional Secretary and later as Counselor of the Brazilian Society for the Advancement of Science, getting deeply involved with the organization of the State Science Foundations and all the movements of science in aid to world peace. Val has been involved with discussions of the causes and consequences of the development disequilibrium of science and education in Brazil. He has been awarded with the Legion of Honour of the American Fisheries Society, Physiology Section, in 2000 in United Kingdom, the Knight of National Order of Scientific Merit in 2002, in Brasilia, and the Award of Excellence of the Physiology Section of the American Fisheries Society in 2004.

**In WSF:** *"Amazonia, Biodiversity and Sustainable Development"*, 25 November, 16:00-17:30



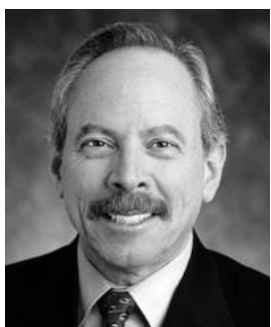
**Adel El-Beltagy**

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**FRANCE**

President of the International Dryland Development Commission (IDDC) and of the International Centre for Advanced Mediterranean Agronomic Studies (Ciheam), Adel El-Beltagy is an Egyptian who, during his career, headed projects that tried to develop strategies for a sustainable agriculture in his country. El-Beltagy's resume is filled with other leading functions, such as the presidency of the Food & Agricultural Research Council in the Egyptian Academy of Science, which he currently occupies. He is also a professor at the Ain Shams University and a board member of the Alexandrina Bibliotheca.

**In WSF:** *"Science Diplomacy"*, 25 November, 16:00-17:30



**Alan Leshner**

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**UNITED STATES**

**Alan Leshner** has been Chief Executive Officer of the American Association for the Advancement of Science (AAAS), the world's largest multi-disciplinary scientific and engineering society, and Executive Publisher of the journal *Science* since December 2001. Before coming to AAAS, Dr. Leshner was Director of the National Institute on Drug Abuse (NIDA), a scientific institute that supports over 85% of the world's research on the health aspects of drug abuse and addiction. He has also worked as the Deputy Director and Acting Director of the National Institute of Mental Health. Dr. Leshner is a member of the Institute of Medicine of the National Academies of Science and Vice-Chair of its governing Council.

**In WSF:** *"Science Policy and Governance: Inventing the Future"*, 225 November, 11:00-12:30

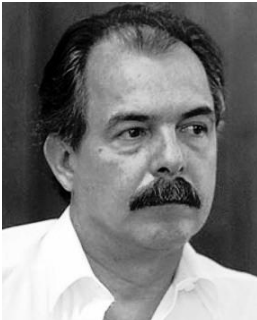


**Alan Simcock**  
UNITED STATES

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Alan Simcock is joint coordinator of the Group of Experts of the Regular Process for the Intergovernmental Oceanographic Commission of UNESCO. He is also the former co-chairperson of the UN Informal Consultative Process on Oceans and the Law of the Sea and former chairman and executive secretary of the OSPAR Commission for the NE Atlantic.

In WSF: *"Applying Ocean Sciences and Knowledge for Societal Benefit: Demands after Rio+20"*, 25 November, 17:30-19:00



**Aloizio Mercadante**  
BRAZIL

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Brazilian politician and economist, Aloizio Mercadante is the current Education minister of his country. Besides being one of the Workers Party's founders, presiding it from 1991 to 1999, he started working as senator of São Paulo in 2003. Mercadante stayed in this position until 2010. During his professional trajectory, he was also the minister of Science, Technology and Innovation of Brazil.

In WSF: *Parliamentary Session*, 27 November, 09:30-11:30



**Anne Glover**  
BELGIUM

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Professor Anne Glover was chief scientific adviser for Scotland from 2006-11 and, from January 2012, Anne joined the European Commission as Chief Scientific Adviser to the President. Anne holds a personal chair of molecular and cell biology at the University of Aberdeen, Scotland, and her current research focuses on the development and application of whole cell biosensors for environmental monitoring and investigating how organisms respond to stress at a cellular level. She is an elected fellow of the Royal Society of Edinburgh, Society of Biology, Royal Society of Arts and the American Academy of Microbiology. Anne was recognized in March 2008 as a Woman of Outstanding Achievement in the UK and was awarded a CBE for services to Environmental Science in the Queen's New Years Honours list 2009.

In WSF: *"Science Policy and Governance: Inventing the Future"*, 25 November, 11:00-12:30



**Bengt Gustafsson**  
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Mr. Bengt Gustafsson is an entrepreneur of Karlskoga Industrifastigheter AB and serves as its chief executive officer. During Mr. Gustafsson's career, he held a number of management positions within Handelsbanken bank. Mr. Gustafsson has been a director of Challenger Mobile AB since 2009. He serves as a member of the board in among other Mundesco Invest AB and Partnerinvest i Mellansverige AB. Mr. Gustafsson has a bachelor of science in business administration.

In WSF: *"Scientific Integrity"*, 25 November, 14:00-15:30



**Bernadette Bensaude-Vincent**  
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She is professor of philosophy at the University of Paris X and, since 2000, Materials Research sector's manager in the program "History of recent science and technology" of the Sloan Foundation and Dibner Funds (MIT, Cambridge, USA). She holds a PhD in humanities with aggregation in philosophy. Her research subjects are history and philosophy of chemistry and of chemistry's technologies, and science dissemination. She managed and coordinated the international research programme "Sciences and Audiences, supported by the Centre de Recherche en Histoire des Sciences of the Cité des Sciences et de l'Industrie (CSI). After it, she managed the programme "Language and Communication in Chemistry" in the context of the European Programme about "The Evolution of Chemistry (1789-1939)" of the European Science Foundation. Beyond the management of the DEA "Histoire de la Philosophie, Histoire et Philosophie des Sciences" in Paris X and of the Centre d'Histoire et de Philosophie de Paris X, she was deputy manager of the École Doctorale Connaissance et Culture (Paris X) and chairmanship of section 72 of the Conseil National des Universités. She received in 1994 the Prize Jean Rostand with Isabelle Stengers, in 1997, the Dexter Award for Outstanding Achievements in the History of Chemistry (American Chemical Society), in 2000, the Senior Fellow, Dibner Institute for the History of Science and she was visiting researcher at the Max Planck Institut für Wissenschaftsgeschichte of Berlin, in 2001.

In WSF: *Parliamentary Session*, 27 November, 09:30 - 11:30



**Bernardo Gradin**  
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Bernardo Gradin was born in Bahia, Brazil in 1964. He is a civil engineer by Politechnic School of Federal University of Bahia (1988), with a University of Pennsylvania MA in International Studies and a Wharton MBA (1993). He has worked in Odebrecht Engineering Company from 1988 to 1999 in Brazil and in the U.S. In 2000 he has moved to Odebrecht Chemical Company, later Braskem, where he has been president and CEO from 2008 to 2010. In 2011 he founded and became CEO of GranBio, a biotechnology industrial company and the Inspirare Institute, a non-profit organization oriented to foster basic education in Brazil. Bernardo is executive board member of ABIQUIM (Brazilian Chemical Association), board member of CNPEM, and leader of the CNI Bioeconomy Commission.

In WSF: *"Academy and Enterprise"*, 26 november, 17:30-19:00



**Carlos Alberto Aragão de Carvalho**  
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**Carlos Alberto Aragão** graduated in physics from the Catholic University of Rio de Janeiro, obtaining his master's degree in the same institution and his Ph.D. degree in Princeton University. He is a professor at the Federal University of Rio de Janeiro (UFRJ) and has experience in the field of physics, with emphasis on the physics of elementary particles and fields and condensed matter physics. He was director of the Department of Physics and Dean of the Centre for Scientific PUC / RJ, director of the Latin American Center for Physics (CLAF), director of the Institute of Physics of the UFRJ, secretary general of the third National Conference on Science, Technology and Innovation, innovation director of the Brazilian Agency for Industrial Development (ABDI), director of Scientific and Technological Development of FINEP and CNPq. He is currently director general of the National Center for Research in Energy and Materials (CNPEM), a complex composed of the National Laboratory National Synchrotron Light Laboratory (LNLS), National Biosciences Laboratory (LNBio), National Laboratory of Science and Technology bioethanol (CTBE) and National Nanotechnology Laboratory (LNNano).

In WSF: *"Academy and Enterprise"*, 26 November, 17:30-19:00



**Carlos Nobre**  
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Graduated in electronic engineering in the Aeronautics Technological Institute (ITA), Carlos Nobre became interested in the environmental area, more specifically the 'physical environment'. In late 1975, he joined the National Institute for Amazonian Research (INPA) in Manaus. He earned a doctorate in meteorology at the Massachusetts Institute of Technology (MIT), USA, where he became involved with dynamic meteorology of the tropical region, working with Prof. Jule Charney and Dr. J. Shukla. The great interest in the Amazon region turned his professional activity to the region, participating and coordinating various scientific experiments observational. Since 2011 he is secretary of Research and Development Policies and Programmes for the Ministry of Science, Technology and Innovation, in Brazil.

**In WSF:** *"Challenges and opportunities of interdisciplinary and transdisciplinary science for sustainability: future earth"*, 26 November, 17:30-19:00



**Carlos Tadeu da Costa Fraga**  
BRAZIL

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Brazilian civil engineer, Carlos Tadeu da Costa Fraga is a specialist in the petroleum industry and engineering, in company's administration and in technological management. In 1982, Fraga started working at Petrobrás, where currently he occupies the position of executive manager of its Research and Development Centre. Besides being a member of many forums and putting his trust in the partnership academy-enterprise, the engineer also directs the Research and Development National Association of Innovative Companies (Anpei).

**In WSF:** *"The Fundamental Roles of Science in Innovation"*, 26 November, 14:00-15:30

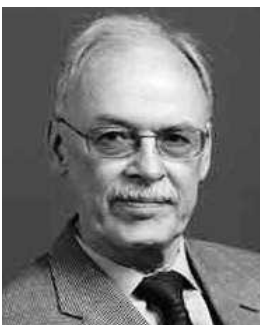


**Cheryl de la Rey**  
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Cheryl de la Rey obtained her PhD in psychology from the University of Cape Town in 1999. Currently, she is the vice-chancellor and principal of the University of Pretoria, in South Africa. De la Rey is a qualified psychologist and was previously deputy vice-chancellor of the University of Cape Town as well as chief executive officer of the Council on Higher Education (CHE).

**In WSF:** *"Challenges and opportunities of interdisciplinary and transdisciplinary science for sustainability: future earth"*, 26 November, 17:30-19:00



**Chris Somerville**  
USA

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**Chris Somerville** is a professor in the Department of Plant and Microbial Biology at the University of California, Berkeley, and a visiting scientist at the Lawrence Berkeley National Laboratory. As Director of the Energy Biosciences Institute, Dr. Somerville oversees all open activities at the Institute, including research, communications, education and outreach. He also chairs the Institute's Executive Committee and reports to the Governance Board. His research focuses on the characterization of proteins implicated in plant cell-wall synthesis and modification. He has published more than 200 scientific papers in plant and microbial genetics, genomics, biochemistry and biotechnology. Dr. Chris Somerville has served on the scientific advisory boards of many corporations, academic institutions and private



foundations in Europe and North America. He is a member of the U.S. National Academy of Sciences, the Royal Society of London and the Royal Society of Canada.

**In WSF:** *"Bioenergy"*, 26 November, 17:30-19:00



## Chunli Bai

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CHINA

Chunli Bai, a well-known chemist and leading scientist in nanoscience, is the president of the Chinese Academy of Sciences (CAS). He is also the president of University of Chinese Academy of Sciences (UCAS) and the president of the Presidium of the Academic Divisions of CAS, who has been newly elected as the president of the Academy of Sciences for the Developing World (TWAS) in Sept. 2012, and will start his term from Jan.1, 2013. Prof. BAI graduated from the Department of Chemistry, Peking University and received his M.Sc. and Ph.D. degrees from the CAS Institute of Chemistry. He worked with the US California Institute of Technology in the field of physical chemistry as a post-doctoral associate and visiting scholar. After back to China in 1987, he continued his research at the CAS Institute of Chemistry. His research areas include the structure and properties of polymer catalysts, X-ray crystallography of organic compounds, molecular mechanics and EXAFS research on electro-conducting polymers. In the mid-1980s, he shifted his research to the fields of scanning tunneling microscopy and molecular nanotechnology.

**In WSF:** *"Science for natural resources"*, 26 November, 09:00-10:30



## Chusheng Chen

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CHINA

Chu-sheng Chen received his BSc and MSc degree in inorganic chemistry from University of Science and Technology of China (USTC) in 1983 and 1986, respectively, and PhD degree in materials science from University of Twente in the HOLLAND in 1994. Dr. Chen joined the Department of Material Science and Engineering at USTC in 1995, and promoted to full professor in 1998. He served as vice dean in the School of Chemistry and Material Science from 2000 to 2004, and (executive) dean of the same school from 2004 to 2008. He took up his current position as Vice President of USTC in November 2008. Dr. Chen's research interests include transport of ions and electrons in solid oxides, ceramic membranes and processes in energy systems, and electrical ceramics and sensors.

**In WSF:** *"The role of higher education in building a critical mass for global sustainability"*, 25 November, 17:30-19:00



## Claire McNulty

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UNITED KINGDOM

Claire McNulty **leads** the Science and Sustainability team at the British Council which develops and supports science and research-related projects across the British Council global network, and builds and maintains relationships with key stakeholders in the UK and overseas. She is involved in a number of international projects, including the European Commission's 'Euraxess' initiative, which aims to enhance the mobility of researchers in Europe. After finishing her degree in chemistry and biochemistry at Leeds University, Dr. Claire McNulty moved into the field of developmental biology, completing her PhD in heart development at King's College London and then working as a post-doc in the HOLLAND at the Hubrecht Institute for Developmental Biology. In 2004 she moved into scientific publishing, working for Excerpta Medica, an Elsevier company. In 2005 she became an independent science consultant. From 2005 to 2008 she worked on several science-related projects for the British Council, including 'Next Generation Science', aimed at school children, and 'Network UK', a support service for international researchers in the UK.

**In WSF:** *"Young Scientists and Social Innovators Making Science Sustainable for the Next Generation"*, 26 November, 16:00-17:30



## Dan Bitan

ISRAEL

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For 25 years, Dan Bitan held various positions in Israeli public education. He wrote text-books chapters, TV scripts for educational programs, and teachers' guides, was Director of Civics programmes at the Israeli Educational TV, and then its consultant. He established and was the first director of programmes for Gifted Children at the Israeli Ministry of Education, and was a founder and first President of the World Council for Gifted Children. Before retiring from the Israeli Civil Service Dan Bitan was head of Junior High Schools in the Ministry of Education. Dan has a long history of involvement in Israeli civil society. He was the chairperson of the Hebrew University of Jerusalem Students' Union, establishing amongst other initiatives its Debating Society, and served as Secretary-General of the World Union of Jewish Students. After the 1967 war Bitan played a significant role in establishing and activating Israeli peace groups and movements. Currently Bitan is an active member of the Israeli-Palestinian Peace NGO Forum, and a Board member of the Israeli Center for the Defense of the Individual, an Israeli Human Rights organization offering support to individual Palestinians in East Jerusalem and the West Bank. He believes that the universal language of Science can and should be an integral component of progress towards an Israeli-Palestinian Peace, building sustainable bridges between the two peoples.

In WSF: "Science Diplomacy", 25 November, 16:00-17:30



## Dario Grattapaglia

BRAZIL

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Dario Grattapaglia is a senior research scientist at EMBRAPA Genetic Resources and Biotechnology since 1995 and holds a joint appointment as professor in the Genomic Sciences and Biotechnology Program of the Catholic University of Brasília since 2000. Forest engineer from the University of Brasília in 1985, he received his Ph.D. in genetics (co-major in Forestry) at North Carolina State University in 1994. His research interests include forest tree genetics, genomics and breeding of fast growing eucalypts, population genetics and conservation of tropical trees and genomic technologies applied to breeding practice. Architect and project leader of the public-private Brazilian Network of Applied Eucalyptus Genomic Research (Genolyptus Project) and co-PI of the International Eucalyptus Genome Sequencing Project, he was elected fellow of the Brazilian Academy of Sciences in 2012.

In WSF: "Sustainable Planted Forests", 25 November, 17:30-19:00



## David Johnston

NEW ZEALAND

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David Johnston is a senior scientist at GNS Science (New Zealand's Geological Survey) and director of the Joint Centre for Disaster Research in the School of Psychology at Massey University, Wellington. The Centre is a joint venture between Massey University and GNS Science. His research has developed as part of multi-disciplinary theoretical and applied research program, involving the collaboration of physical and social scientists from several organizations and countries. His research focuses on human responses to volcano, tsunami and weather warnings, crisis decision-making and the role of public education and participation in building community resilience and recovery. David is a member of the Scientific Committee for the Joint International Council for Science (ICSU) and the International Social Science Council (ISSC) Integrated Research on Disaster Risk (IRDR); the Royal Society Social Science Advisory Panel; and on the Editorial Board of The Australasian Journal of Disaster and Trauma Studies.

In WSF: "Science and technology in the service of disaster risk reduction", 26 November, 16:00-17:30



**Daya Reddy**  
SOUTH AFRICA

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**Daya Reddy** obtained his BSc in engineering from the University of Cape Town and PhD from the University of Cambridge. He has been an academic staff member at the University of Cape Town since 1979, and served as dean of the Faculty of Science over the period 1999 - 2005. Reddy currently holds the South African Research Chair in Computational Mechanics, in the Department of Mathematics and Applied Mathematics. His research is concerned with the mathematical analysis and computational solution of problems arising in the mechanics of solids and fluids. Reddy is a founder member of the Academy of Science of South Africa (ASSAf), and was elected ASSAf President in October 2012. He is also a fellow of the South African Academy of Engineering, of the African Academy of Sciences, of The World Academy of Sciences (TWAS), and of the International Association of Computational Mechanics. He is a recipient of the Order of Mapungubwe (Bronze), awarded by the President of South Africa for distinguished contributions to science.

In WSF: "Science and Engineering Education", 26 November, 11:00-12:30



**Eduardo Viotti**  
BRAZIL

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**Eduardo Viotti** has a degree in economics from the Federal University of Minas Gerais, MBA in economics from the University of Brasilia, MBA in economics from the New School for Social Research and Ph.D. in economics from the New School for Social Research. He is currently associate researcher at the Center for Sustainable Development (CSD) at the University of Brasilia (UNB) and legislative consultant of the Senate on matters of science and technology policy. Over the past few years, he coordinated two major research projects of the Center for Strategic Studies and Management (CSSM). The first research was on the doctors trained in Brazil in the period 1996-2008 (their training and employment situation in 2008). The second was a similar project on the Brazilian masters titles in the period 1996-2009. His main areas of research interest are the relationships between science, technology and innovation (ST&I) with development, particularly sustainable development policies; national systems of innovation and technological learning; indicators of ST&I and human resources for ST&I.

In WSF: "Young Scientists and Social Innovators Making Science Sustainable for the Next Generation", 26 November, 16:00-17:30



**Ernesto Calvo**  
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Argentinian chemical with a PhD obtained at the Imperial College London, Ernesto Calvo is the director of the Institute of Chemical Physics for Materials, Environment and Energy (Universidad de Buenos Aires). Senior researcher at the National Scientific and Technical Research Council (Conicet), among his interests are electrosynthesis, nanoscience, interfacial and molecular electrochemistry and the electrocatalysis of the oxygen reduction reaction. Calvo also works as a invited scientist at Southampton University, in the United Kingdom, and is a member of the Royal Society of Chemistry since 2005.

In WSF: "Science for natural resources", 26 November, 09:00-10:30"



## **Ernst Ludwig Winnacker**

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FRANCE

**Ernst-Ludwig Winnacker** is secretary general of the Human Frontier Science Program Organization (HFSP). After postdoctoral work at the University of California in Berkeley and the Karolinska Institute in Stockholm, he became assistant and then DFG visiting professor at the Institute for Genetics, University of Cologne. In 1977 he was appointed associate professor at the Institute of Biochemistry at the Ludwig Maximilians University of Munich where he was made full professor in 1980. From 1984 to 1997, he was director of the Laboratory of Molecular Biology at the University of Munich Gene Center. Winnacker also served as president of the German Research Foundation (DFG), chair of the European Heads of Research Councils (EUROHORCs) and secretary general of the European Research Council (ERC). Member of the US National Academies of Sciences and of the German Academy of Sciences Leopoldina, his main fields of research are virus/cell interaction, the mechanisms of gene expression in higher cells and prion diseases.

**In WSF:** *"Scientific Integrity"*, 25 November, 14:00-15:30



## **Eudine Barriteau**

BARBADOS

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Professor of Gender and Public Policy, Eudine Barriteau is a Grenadian born, Caribbean feminist, scholar and activist with considerable experience in senior University administration, research and development and delivery of workshops and training programmes in gender and development issues. For fifteen years, she has been the first Head of the Centre for Gender and Development Studies: Nita Barrow Unit, and the first woman at the University of the West Indies to be appointed campus coordinator. This is a position she held for four years, until becoming the second woman to be appointed deputy principal at the Cave Hill Campus. In July 2011, Prof. Barriteau was bestowed the Tenth CARICOM Triennial Award for Women at the Opening Ceremony of the Thirty-Second Regular Meeting of the Conference of Heads of Government of CARICOM, the region's highest award for women. Her research interests encompass feminist theorizing, gender and public policy, investigations of the Caribbean political economy, and theorizing heterosexual women's socio-sexual unions.

**In WSF:** *"The role of higher education in building a critical mass for global sustainability"*, 25 November, 17:30-19:00

## **Eugene Nhlanhla Nqaba**

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### **Ngcobo**

SOUTH AFRICA

Dr. Nqaba Eugene Ngcobo is the chairperson of Portfolio Committee on Science and Technology in the National Assembly representing the Majority Party, African National Congress. He is an experienced cadre who has a wealth of knowledge through his academic research and political experience, having served as a chairperson of the Portfolio Committee on Minerals and Energy in 2008, as well as PC on Defence. He previously has been invited twice by the US Senate to participate firstly in the Launch of the International Commission on Climate and Energy Security and secondly in PGA (Parliamentarians for Global Action – a body of 131 national parliaments) which focuses on matters of strategic interest such as genocides, climate change and environmental degradation. He is passionate about science and developing young scientist especially in his field, he motivates school going children and university students to take interest in Maths and Science studies.

**In WSF:** *Parliamentary Session*, 27 November, 09:30-11:30





**Eva-Maria Neher**  
GERMANY

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Specialist in the studies of microbiology and biochemistry, Eva-Maria Neher has a postdoc at the Max-Planck-Institute for Biophysical Chemistry and has worked as a researcher associate at the Institute for Physiological Chemistry of the University Göttingen. Since 2000, she takes care of the administration and management of XLAB Experimental Laboratory for Young People in Göttingen. In 2009, she became a honorary professor at the faculty of chemistry of the University of Göttingen.

In WSF: *"Science and engineering education"*, 26 November, 11:00-12:30

**Fernando Lavadenz**  
BOLIVIA

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Senior expert in health, nutrition and population of the World Bank, Lavadenz has extensive experience in the sector of healthcare and development, having worked in 18 countries in South America and Asia for the past 25 years. Physician specialized in clinical oncology and cancer epidemiology, has worked in both research and health policy. In Bolivia, held senior government positions related to the management of the area. Before joining the World Bank, Lavadenz worked in various international organizations, including the World Health Organization. More recently, his research and work has been focused on non-communicable diseases, health systems strengthening, and behavioral change.

In WSF: *"The Medical Challenge of Old Age"*, 25 November, 16:00-17:30



**Gábor Bojár**  
HUNGARY

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The Hungarian physicist and successful entrepreneur is a good example of scientist-entrepreneur. Bojár founded his own software development firm in 1982, Graphisoft, which today is a global leader with ArchiCAD® software, used by thousands of architects worldwide. In 1996 re-cultivated a rundown industrial site on the bank of the river Danube to turn it into a state-of-the-art science park. In 2007 established an international school of information technology. AIT-Budapest is meant to be an example of social entrepreneurship demonstrating the viability of a self-sustaining investment in higher education. For his remarks on science and business, received several awards.

In WSF: *"Academy and Enterprise"*, 26 November, 17:30-19:00



**Geneviève Fioraso**  
FRANCE

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Fioraso is the French Minister of Higher Education and Research since May 2012. As a member of the French Parliament since June 2007, she has also been a member of the Parliament office for the evaluation of scientific and technological choices (OPECST) until 2012. Holds masters degrees in English and Economics. After teaching for three years in Amiens, she dedicated her career and her public commitment to research, innovation, start-up and higher education. Since 2008 she has been deputy-Mayor for the Economy, Universities and Research for the City Council of Grenoble and first President of the Grenoble Metropole. Since 2003, she has been the CEO of S. E. M. Minatec Entreprises (public-private venture, entrusted with the marketing of high-tech Minatec facility for nano and biotechnologies). Prior to her election to the French Assembly in 2007, Minister Fioraso served, among others, as an executive in a startup specialized on simulation of nuclear and thermal power plants and transportation grids, as a senior marketing

manager at France Telecom, and as director of the Agence Régionale du Numérique, a regional agency set up by the digital network of cities of the Rhône-Alpes Region.

**In WSF: "Science Policy and Governance: Inventing The Future", 25 November, 11:00-12:30**



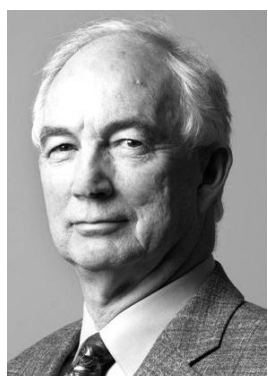
## **Glaucius Oliva**

[oliva@ifsc.usp.br](mailto:oliva@ifsc.usp.br); [presidencia@cnpq.br](mailto:presidencia@cnpq.br)

**BRAZIL**

Glaucius Oliva is professor at the Institute of Physics of Sao Carlos and currently works as the President of the National Council for Scientific and Technological Development (CNPq). He is the coordinator of the Center for Structural Molecular Biotechnology, one of the centers of Research, Innovation and Diffusion from Fapesp (São Paulo Research Foundation). He has worked as coordinator of the National Institute of S&T for Biotechnology Structural and Medicinal Chemistry in Infectious Diseases of the MCT, Ministry of Health and Fapesp. His main research interests are focused on structural biology and its applications in the planning and development of new drugs, with particular emphasis on endemic diseases in Brazil. Today leads a research team of 80 participants, with a multidisciplinary composition physicists, biologists and chemists. He is also a member of the Brazilian Academy of Sciences and Commander of the National Order of Scientific Merit.

**In WSF: Closing Ceremony and Presentation of the Declaration, 27 November, 12:00-12:30**



## **Gordon McBean**

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**CANADA**

The Canadian physicist is an expert in atmospheric and climate sciences, with a strong performance in natural disasters. His interests range from the dangers and impacts of such phenomena to government policies related to them. Has worked for the Canadian government and the Ministry of Environment of the country. He is currently professor in the Department of Geography and Political Science from the University of Western Ontario, Canada, and director of Political Studies of the Institute for Catastrophic Loss Reduction. In addition, chairs the International Council for Science (ICSU) and the International Global Change START. His contributions in the areas of climate change and natural disasters have been recognized with the Order of Canada (2008) and Ontario (2010). As a member of the Intergovernmental Panel on Climate Change (IPCC), received in 2007 the Nobel Peace Prize

**In WSF Opening Ceremony, 24 November, 18:00-19:00; "Science and Technology in the Service of Disaster Risk Reduction", 26 November, 16:00-17:30**



## **Gordon Dalton**

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**IRELAND**

Irish engineer and specialist on the economy of renewable energy, Dalton studies the socioeconomic viability of the use of wave energy. Awarded the Enterprise Ireland Commercialisation Award, worth € 350,000, for the Navitas techno-commercial software product, a platform for assessing the commercial viability of marine renewable energy projects. He is a researcher at the Centre for Marine Research and Hydraulic at the University College Cork (UCC), Ireland, also integrating the staff of Beaufort Research, center for research and development in the maritime sector and energy. He is currently president of the International Consortium of Research Staff Associations (ICoRSA), international director of the Irish Association of Research Staff and vice-president of this sector in UCC.

**In WSF: "Young Scientists and Social Innovators Making Science Sustainable for the Next Generation", 26 November, 16:00-17:30**



## Gretchen Kalonji

USA

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Gretchen Kalonji is the current Assistant Director-General for Natural Sciences at UNESCO. She holds a B.Sc. and a Ph.D in Materials Science and Engineering from the Massachusetts Institute of Technology, USA. At MIT, served as Assistant and Associate Professor in the Department of Materials Science and Engineering, from 1982 to 1990. In 1990, joined the University of Washington in Seattle as the Kyocera Professor of Materials Science. Since 2005, has been working within the University of California system, serving as Director of International Strategy Development for the 10-campus system from 2005 to 2009, and as Director of System-wide Research Development from 2009 to 2010. Since 2006, she has been serving as professor in the Department of Electrical Engineering at the University of California Santa Cruz. Her areas of expertise in materials science include symmetry constraints on the structure and properties of crystalline defects, phase transformations and microstructural evolution. She is also well-known for innovations in science and engineering education, for efforts to promote equity and access for women, as well as underrepresented minorities, to scientific careers and for novel approaches to the internationalization of research and education. For her work, both in materials science and in higher education transformation, has been recognized by multiple awards and honors.

**In WSF:** *Parliamentary Session*, 27 November, 9:30-11:30; *Closing Ceremony and Presentation of the Declaration*, 27 November, 12:00-13:30



## Guanghui Xie

CHINA

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Professor at China Agricultural University (CAU), Xie has experience of over 25 years in agricultural science, being one of the pioneers of research on non-food biomass in the country. Is deputy director of the National Energy R&D Center for Non-food Biomass, linked to the National Energy Administration of China. His main areas of research are: distribution and potential of marginal land for energy crop plantation; biomass feedstock sustainability and production management; biomass availability assessment and characterization for biofuel; breeding, cultivation technology, and value chain of energy sorghum.

**In WSF:** *"Bioenergy"*, 26 November, 17:30-19:00



## Hamid Reza Amirinia

IRAN

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Hamidreza Amirinia earned his Bachelor in Electronics Engineering in 1998 from Amir Kabir University, Iran, and his MSc in Industrial Management in 2003 from Strathclyde University, Scotland. At present, he is head of Center for Innovation and Technology Cooperation of Iran Presidency (CITC), Advisor to the Presidency, and Member of Commission of Supreme Council of Science, Research and Technology. His managerial background includes: Iran Embassy's Science - Industrial Attaché in Moscow, Member of the Board of Directors of Assessment Institute and Iran Composite Institute, vice- chairman of Technology Cooperation Office and others. Amirinia is an active member of Science Executive Committees of Technology Development Strategy, Composite Technology Development Strategy, Conference on Industries, Government and University Confederation, ICT Asia-Europe International Conference, and ERP Technology Development Strategy.

**In WSF:** *"Science Diplomacy"*, 25 November, 16:00-17:30



**Hans Grosse Werner**  
CHILE

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Hans Grosse Werner is a Forestry Engineer, PhD in Forestry from the University of Munich, Germany. Currently, executive director of the Forestry Institute (INFOR). In the scientific field, has specialized in forestry in native forests and plantations, with publications in technical bulletins and books. He has dabbled in the field of renewable energy and good environmental practices. He has participated as an academic at the Pontifical Catholic University of Chile, University of Talca, Maule University and the Universidad Austral de Chile.

In WSF: *"Sustainable Planted Forests"*, 25 November, 17:30-19:00



**Hasan Dweik**  
PALESTINE

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Palestinian researcher Hasan Dweik has devoted efforts to the advancement of science, especially in the area of polymer, to science diplomacy and to non-formal education in science. He is co-director of the Israeli-Palestinian Science Organization (IPSO), which aims at promoting dialogue and cooperation between researchers from both communities; member of the Committee on Freedom and Responsibility in the conduct of Science (CFRS), under the International Council for Science (ICSU), and executive vice-president of Al-Quds University in Jerusalem, where he began and consolidated his academic career. Dweik has extensive production in science and technology of polymers, and chemical pollution of water and solid waste management. Directs the Science Discovery Center and the Mathematics Museum, two interactive science centers that he helped implement at the University of Al-Quds.

In WSF: *"Science Diplomacy"*, 25 November, 16:00-17:30



**Heila Lotz-Sisitka**  
SOUTH AFRICA

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Heila Lotz-Sisitka holds the Murray & Roberts Chair of Environmental Education and Sustainability at Rhodes University. She began her career in Primary Education but has since shifted her focus to Higher Education and Environmental Education. Apart from overseeing the research of Master's and PhD students, Heila also serves on UNESCO's international reference group for the United Nations Decade on Education for Sustainable Development, and edits the *Southern African Journal of Environmental Education*. Heila's particular research interests include: social change processes with an emphasis on educational quality and curriculum transformation; educational responses to poverty, risk and vulnerability; and critical research methodologies.

In WSF: *"The Role of Higher Education in Building a Critical Mass for Global Sustainability"*, 25 November, 17:30-19:00



**Helena Nader**  
BRAZIL

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Chair of the Brazilian Association for the Advancement of Science, Helena Nader has a Bachelor's degree in Biological Sciences, medical modality, from the Federal University of São Paulo, Ph.D. in Molecular Biology from the same university and a postdoctoral from the University of Southern California. She is a professor at the Federal University of São Paulo, member of the Academy of Sciences of São Paulo and of the Brazilian Academy of Sciences, fellow of the World Academy of Science for the Advancement of Science in Developing Countries, Class Commander of the National Order of Scientific Merit, Class Grand Cross of the National Order of Scientific Merit. Has



experience in the area of biochemistry, with an emphasis on glycobiology and cell and molecular biology of proteoglycans.

**In WSF: "The Medical Challenge of Old Age", 25 November, 16:00-17:30**



## **Heneri Dzinotyiweyi**

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**ZIMBABWE**

Dzinotyiweyi is former Minister of Science and Technology Development in Zimbabwe. He holds a doctorate in Mathematics from the University of Aberdeen, UK, and has been full professor and dean at the University of Zimbabwe. In the mid 1990s he worked with a research on Science and Technology across the 14-state Southern African Development Community, returning to his post as professor of Mathematics prior to his resignation to stand in the March 2008 elections.

**In WSF: "Science Policy and Governance: Inventing the Future", 25 November, 11:00-12:30**



## **Indira Nath**

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**INDIA**

The Indian immunologist made important contributions to the study of leprosy during 30 years dedicated to science. Her research, focused on cellular immune responses in human leprosy, represent an important step towards the development of vaccines and treatment against the disease. She is currently director of the Blue Peter Research Centre, Hyderabad, India, center for cutting edge studies on leprosy and other infectious diseases, which also provides care and counseling to the community. The researcher also has an important role in education policy, health and science, and on issues related to women in science.

**In WSF: "Scientific Integrity", 25 November, 14:00-15:30**



## **Irina Bokova**

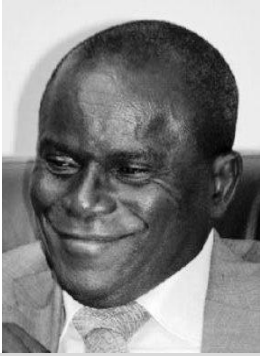
[bpi@unesco.org](mailto:bpi@unesco.org)

**BULGARIA**

Politician and Bulgarian diplomat, Irina Bokova is the first woman - and the first representative of Eastern Europe - to lead the United Nations Educational, Scientific and Cultural Organization (UNESCO). The organization has just re-elected her to the post of director-general, which she should hold for another four years. With an MBA from the Moscow State Institute of International Relations and studies at the universities of Maryland and Harvard, Bokova consolidates a distinguished political career. In Bulgaria, was Member of Parliament for the Socialist Party for two years, minister and deputy minister of Foreign Affairs and ambassador to the country in France and Monaco. She was also the personal representative of the Bulgarian President in the International Organization of the Francophonie, served as the representative of Bulgaria to the United Nations and as Secretary of State for European Integration. As founder and president of the European Policy Forum, invested efforts in overcoming the political divisions in Europe and promote the values of dialogue, diversity and human rights. As Unesco's director-general, has devoted special attention to the education of girls and women, freedom of expression, protection of journalists, the preservation of cultural heritage, particularly in Palestine, among other topics.

**In WSF: Opening Ceremony, 24 November, 18:00-19:40**





**Ita Okon Bassey Ewa**  
**NIGERIA**

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Nuclear physicist and university professor, Ita Okon Bassey Ewa is the former Minister of Science and Technology of Nigeria. Conducted studies in the area of nuclear physics in several countries - United States, Canada, Hungary, Italy, among others - with funding from the International Atomic Energy Agency (IAEA). Is currently a researcher at the Center for Nuclear Research of the Ahmadu Bello University in Zaria, Nigeria, and a member of several international organizations.

**In WSF: *Parliamentary Session*, 27 November, 9:30-11:30**



**Jacob Palis**  
**BRAZIL**

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President of the Brazilian Academy of Sciences, Jacob Palis has been working at the National Institute for Pure and Applied Mathematics since 1968, after obtaining his PhD in Mathematics at University of California, Berkeley, in 1967. Before that, he was a student at University of Brazil, presently Federal University of Rio de Janeiro, where he graduated at the Engineering School in 1962. He has been awarded several national and international prizes and distinctions, such as the Grand-Croix Brazilian Order of Scientific Merit, in 1994, and the French Chevalier de la Legion d Honneur, in 2005, as well as honorary doctorates from several universities, both from Brazil and abroad. He is a member of fourteen Academies of Sciences. Palis works in the global theory in dynamical systems and recently formulated a research programme aiming at the description of the typical trajectory of a typical dynamical system. If proved to be correct, it may have important implications concerning uncertainty of future predictions of dynamical models for natural phenomena and perhaps otherwise. The programme has spurred much research.

**In WSF: *Opening Cerimony*, 24 November, 18:00-19:00**



**Jacqueline Allan**  
**FRANCE**

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Jacqueline Allan has been engaged in the development of science and technology policy advice at national and international levels for over 15 years. Within the Science and Technology Policy Division at the Organization for Economic Co-operation and Development (OECD), she is the senior policy analyst responsible for biotechnology and nanotechnology and she leads the Secretariat for the OECD Working Party on Biotechnology, the OECD Working Party on Nanotechnology and the OECD Task Force on Industrial Biotechnology. Allan is the author of numerous analytical and advisory reports on science, technology, innovation, industry and education policy and evaluation for Forfás, the OECD and the Irish advisory science councils. Her academic background in experimental physics (materials, magnetism) and her PhD work was undertaken in Trinity College, Dublin.

**In WSF: *"Young Scientists and Social Innovators Making Science Sustainable for the Next Generation"*, 26 November, 16:00-17:30**



**Jiarui Wu**  
CHINA

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Vice-president of the Shanghai Advanced Research Institute, linked to Chinese Academy of Sciences (CAS), the Chinese biologist reconciles administrative positions and bench work. He is a professor at the Institute of Biochemistry and Cell Biology in Shanghai, where he is currently focused on the search for biomarkers to detect phases of progression of diabetes and leads study on genetic and environmental factors and their interactions during the progression of the disease, with approaches of systems biology. He is vice-president of the Chinese Society of Biochemistry and Molecular Biology and vice-president of the Chinese Association of Geriatric Research. He held various administrative positions in the sector of science and technology in China.

**In WSF:** *"The Medical Challenge of Old Age"*, 25 November, 16:00-17:30



**Johann Görgens**  
SOUTH AFRICA

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Biochemical engineer Johann Görgens works with second generation biofuels, those who come from the biomass. Associate Professor in the Department of Process Engineering at the Stellenbosch University, South Africa, he studies the production of fuels and chemicals from fibrous plant material such straw, various grasses, bagasse and wood shavings through thermochemical and biological processes. In addition to improving the efficiency of these processes, Görgens and his collaborators work on developing computational models capable of determining the costs involved in both processes, which will allow a better assessment of the economic viability of the use of these biofuels.

**In WSF:** *"Bioenergy"*, 26 November, 17:30-19:00



**John Burn**  
UNITED KINGDOM

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Geneticist and professor at the University of Newcastle in the UK, Burn has widely recognized performance in the field of genetic diseases. Currently he works on a vaccine against colorectal cancer and is involved in a company that aims to promote the use of nanotechnology in genotyping and gene sequencing. Accumulates a number of positions in entities related to health, such as the National Health Service and the National Institute for Health Research UK, is vice-president of the British Society for Medical Genetics and integrates the Human Variome Project, whose goal is to reduce the incidence of diseases by obtaining, organizing and sharing data on genetic variations.

**In WSF:** *"Inequalities as Barriers for Global Sustainability"*, 25 November, 9:00-10:30



**John Pierce**  
UNITED KINGDOM

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John Pierce joined British Petroleum as Chief Bioscientist in April 2010. He is responsible for developing strategies to help position the company to gain maximum benefit from the application of biosciences to BP's world-wide businesses. Pierce received his PhD degree in 1980 from Michigan State University in the areas of carbohydrate chemistry and enzymology. After postdoctoral appointments at Cornell University and University of Wisconsin, he had a long career at DuPont commencing as a research scientist in Central Research and Development and culminating as vice-president for DuPont Applied BioSciences and Director of Biochemical Sciences & Engineering where he had responsibility for DuPont's biotechnology research and development efforts in the production of fuels, chemicals, and materials.

**In WSF: "Bioenergy", 26 November, 17:30-19:00**



**Jorge Guimarães**  
BRAZIL

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Veterinarian doctor, with expertise in biochemistry, Jorge Guimarães has a long history in the Brazilian scientific policy, having held high positions in the management of science and technology in the country. He was director of CNPq, Secretary of the Ministry of Science and Technology and has held various positions at the Brazilian Association for the Advancement of Science. Since 2004, is the president of the Coordination of Improvement of Higher Education Personnel (Capes), under the Ministry of Education. Along with CNPq, the agency coordinates the Science Without Borders, program of exchange and international mobility of the federal government. Guimarães has taught in different universities, and is currently a professor at the Federal University of Rio Grande do Sul. Among many honors, he received, in 2006, the National Order of Scientific Merit.

**In WSF: "The Role of Higher Education in Building a Critical Mass for Global Sustainability", 25 November, 17:30-19:00**



**José Galizia Tundisi**  
BRAZIL

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Expert in ecology, limnology, with an emphasis on management of aquatic ecosystems recovery, the Brazilian researcher chairs the International Ecology Institute, where he is a consultant on various projects in these areas. Currently directs the international program of global training for water managers for the IAP (InterAcademy Pannel), which represents 100 science academies. He is a retired professor from the University of São Paulo and operates in graduate of the Federal University of São Carlos guiding teachers and doctors. He is also a professor at the University Feevale acting in the course on the postgraduate in Environmental Quality and visiting professor at the Institute for Advanced Study. He was president of CNPq between 1995 and 1999.

**In WSF: "Water Cooperation and Security", 26 November, 16:00-17:30**



## **José Muelbert**

**BRAZIL**

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The Brazilian oceanographer, researcher and deputy director of the Institute of Oceanography of the Federal University of Rio Grande, serves on several issues and projects in the area, dedicated especially to the interaction between marine organisms and environmental parameters. His studies on the dynamics of the marine ecosystem and the vulnerability of coastal areas to climate change in Brazil have contributed to greater understanding of the relationship between the oceans and changes in global climate. He is a member of the Scientific Committee and manager of the Unesco's Global Program for Ocean Observing, the Directorate of Hydrography and Navigation and the Interministerial Commission for Sea Resources

**In WSF:** *"Applying ocean sciences and knowledge for societal benefit: demands after rio+20"*, 25 November, 17:30-19:00



## **József Pálincás**

**HUNGARY**

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President of the World Science Forum, of Hungarian Academy of Sciences and Vice President of the Science Consultative Council of European Academies, Pálincás is physical and his main area of research is the experimental examination of atomic collisions. He is a member of the International Union of Pure and Applied Physics, of Commission on Atomic, Molecular and Optical Physics, and of the International Conference on Photonic, Electronics and Atomic Collisions. Between 1998 and 2002, he served as Secretary of State and then as Minister of Education of the Hungarian government. In 2006 he was elected deputy of the Party of Young Democrats. In Parliament, took part in the work of the Committee on Education and Science, as co-chairs the Innovation Committee. He also teaches physics at the University of Debrecen.

**In WSF:** *"The fundamental roles of science in innovation"*, 26 November, 14:00-15:30



## **Juan Luis Castro González**

**CHILE**

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Chairman of the Permanent Committee on Science and Technology of the House of Deputies of Chile, Gonzalez is a doctor, with specialization in internal medicine and hematology. He is also a master at health institutions management by the University of Chile and founder of Healthy Rancagua Solidarity Network, through which doctors offer free care to worker families. In 1999 he was internationally recognized as "Latin American leader of the new millennium," according to CNN and Time magazine, that chose personalities under 40 who have excelled in the fields of politics, economy, science, arts and the environment.

**In WSF:** *Parliamentary Session*, 27 November, 09:30-11:30

## **Julio César Centeno**

**VENEZUELA**

[julioccenteno@cantv.net](mailto:julioccenteno@cantv.net)

Specialist in forest science and professor at the University of the Andes in Venezuela. He serves as a delegate of Venezuela in international negotiations on climate change, biodiversity and forestry. Centeno also received - from Prince Bernhard of the HOLLAND - the Golden Ark Award, an award dedicated to people with notable contributions in conserving nature.

**In WSF:** *"Amazonia, biodiversity and sustainable development"*, 25 November, 16:00-17:30



## Katalyn Bogyay

HUNGARY

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President of the General Conference of UNESCO since 2011, the Hungarian journalist and economist established the commitment to promote international diplomacy and cultural dialogue. Her extensive experience contributes to this performance: Bogyay began her career as a music, theater and art critic, then became a television reporter and producer of films and reached the government. Her relation with UNESCO started in 1998, when she was a television producer in London and led the international campaign for the dissemination of the organization's World Conference of Science, held in Budapest. In Hungary, she served as Secretary of State of International Affairs for Education and Culture between 2006 and 2009 and she was responsible for all matters related to UNESCO. Currently, Bogyay is also ambassador of Hungary in the organization. She served as a diplomat and directed by seven years the Hungarian Cultural Centre in London, the city where she lived for 13 years and where she obtained the degree in management psychology and the title of Master of Arts in international communication. In 2005, Bogyay was awarded with the "Knight's Cross of the Order of Merit of the Republic of Hungary", in recognition of her work in cultural diplomacy.

**In WSF:** "Science diplomacy", 25 November, 16:00-17:30



## Kate Krontiris

USA

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Researcher, strategist and facilitator based in New York, Kate works mainly in the fields of civic participation and technology in the United States. She recently conducted research in six U.S. cities on the administration of american elections on behalf of Reboot - "social enterprise that works to improve governance and development throughout the world"-in which she examined human motivations, technological systems and institutional scenarios that define the administration of elections at the local level. She is a master in public policy from the Harvard Kennedy School and has an MBA from the Sloan School of Management of MIT.

**In WSF:** "Young scientists and social innovators making science sustainable for the next generation", 26 November, 16:00-17:30



## Lars Tranvik

SWEDEN

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Lakes receive large amount of dissolved organic matter (DOM) from the surrounding watersheds, with strong impacts on productivity, food web dynamics, and biogeochemistry of the lakes. It is on this phenomenon that is focused Professor Lars Tranvik's research, head of the Center for Evolutionary Biology of the University of Uppsala. The importance of this study is related to the fact that, with oceans included, DOM is one of the major pools of organic carbon of the biosphere, roughly of the same size as terrestrial biomass or terrestrial detrital carbon (soils, peat, etc).

**In WSF:** "Water cooperation and security", 26 november, 16:00-17:30





**László Somlyódy**  
HUNGARY

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The Hungarian scientist has experience in about ten countries in areas such as management of water quality, modeling and monitoring, eutrophication, wastewater engineering, flood control and river basin management. Professor at the Department of Sanitary and Environmental Engineering (DSEE) of the Budapest University of Technology and Economics, Somlyódy is a member of the Hungarian Academy of Sciences, where he chaired the Department of Engineering Sciences for six years.

**In WSF:** "Water cooperation and security", 26 november, 16:00-17:30



**Lidia Brito**  
FRANCE

[l.brito@unesco.org](mailto:l.brito@unesco.org); [s.larabi@unesco.org](mailto:s.larabi@unesco.org)

Forest engineer Lidia Brito was the first person to lead the Ministry of Higher Education, Science and Technology of Mozambique. She was also vice-chancellor between 1998 and 2000 of Eduardo Mondlane University, where she completed her graduation. These two positions she took allowed that Brito accumulated extensive experience in higher education, science & technology, ICT and innovation policies and programs - knowledge that she applies now as the Director of the Division of Science Policy and Capacity-Building in UNESCO. She holds MSc and PhD degree in Forest Sciences from Colorado State University, in the United States. Brito has also over 20 years of experience in the areas of forestry, traditional energy (biomass and charcoal) and wood science and technology. Recently, she was also the Advisor of the Mayor of Maputo for Strategic Planning and External Relations.

**In WSF:** "the role of higher education in building a critical mass for global sustainability", 25 november, 17:30-19:00



**Linxiu Zhang**  
CHINA

[lxzhang.ccap@igsnr.ac.cn](mailto:lxzhang.ccap@igsnr.ac.cn)

PhD in agricultural economics from the University of Reading, in England, Linxiu Zhang is deputy director of the Center for Chinese Agricultural Policy of the Academy of Sciences of China. She assumes the role of supervising a research program on "integrated rural urban development and anti-poverty policy". Her studies deal with public investment in Chinese agriculture and its impact on progress, poverty, inequality, environmental dynamics, gender and household nutrition, integrated resource management at community level, basic education and the New Corporate Medical System (NCMS).

**In WSF:** "inequalities as barriers for global sustainability", 25 november , 9:00-10:30



**Luciano Pedrote**  
BRAZIL

[lpedrote@embraer.com.br](mailto:lpedrote@embraer.com.br)

Currently, engineer Luciano Pedrote is the Technological Development manager of Embraer SA. He works in the area of research, development and innovation in the aerospace industry.

**In WSF:** "Academy and enterprise", 26 November, 17:30-19:00



**Lucy Calderon Pineda**  
GUATEMALA

[info@wfsj.org](mailto:info@wfsj.org)

Pineda is a journalist who chose to make a career in science. Graduated from the School of Communication Sciences of the University of San Carlos, in Guatemala, her journalistic experience began more than ten years ago in the newspaper Prensa Libre, one of the most important in the country - where she continues as a reporter. In 2006, Pineda won a scholarship to attend the Workshop Jack F. Ealy of Science Journalism, held at the Institute of the Americas in the United States. The event aims to encourage journalists to deepen the coverage of science, health and environment. Today, she is a member of the Advisory Commission of the World Federation of Science Journalists (WFSJ).

**In WSF: Parliamentary Session, 27 November, 09:30-11:30**



**Luís Augusto Barbosa Cortez**  
BRAZIL

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Professor at the Faculty of Agricultural Engineering of State University of Campinas (Unicamp), Cortez researches the areas of biomass energy, ethanol from sugar cane and cooling technology. He won the Jabuti Prize twice: in 2011, in the category "Natural Sciences" with the book "Bioethanol cane sugar - R & D to Productivity and Sustainability", and in 1993, in the category "Exact and Technological Sciences," with the work "Introduction to Agricultural Engineering".

**In WSF: "Bioenergy", 26 November, 17:30-19:00**



**Luis Eugênio Mello**  
BRAZIL

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Responsible for the implementation of the Technological Institute of Vale, which he directs, Mello inaugurated a new way of running the private business in science and technology in Brazil, expanding cooperation between academy and enterprises. Doctor with a postdoctoral in neurophysiology, he works in the field of epilepsy, neuronal degeneration, stem cells, physiology and pathophysiology of sleep. Mello also contributed to the discussion in the Supreme Federal Court on embryonic stem cells and the adoption of the law that regulates the use of animals in scientific research.

**In WSF: "Science for natural resources", 26 November, 09:00-10:30**



**Luiz Davidovich**  
BRAZIL

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Besides acting in the field of quantum optics, that investigates the interaction of light with matter on a very small scale, the physicist from Federal University of Rio de Janeiro has extensive experience in the field of science and education policy – he was a member of the advisory committees of the Ministries of Education and Science, Technology & Innovation. Davidovich integrates the frames of the Brazilian Academy of Sciences, the Academy of Sciences for the Developing World (TWAS) and the National Academy of Sciences (USA), and he has a special interest in international cooperation and the role of Academies in advising governments and organizations. He received the Grand-Cross of the National Order of Scientific Merit from the Government of Brazil in 2000 and in 2010 he won the Almirante Álvaro Alberto prize, awarded by the Brazilian National Research Council.

**In WSF: "Science policy and governance: inventing the future", 25 November, 11:00-12:30**



**Luuk van der Wielen**  
HOLLAND

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PhD in chemical engineering, Wielen is distinguished professor for biobased economy at the Technical University of Delft, in the HOLLAND. He is also a full professor at the Department of Biotechnology, where he leads the bioseparations section since 1998. The activities of the section were ranked as excellent by consecutive national research evaluations by the VSNU (Society of Dutch Universities), and have resulted in several spin-off companies, which are born from research groups. In 2011, he developed the Oil Palm Biomass Center in Malaysia stimulating innovation, economic growth and ecological benefits with the Malaysian palm sector and international chemicals /energy industries. He researches the areas of thermodynamics for bioprocesses, a range of bioseparation/-conversion technologies, multifunctional bioreactors and miniaturized ('on-chip'), computational, high-throughput technology for rapid process development, as well as analysis and development of large scale and distributed, low carbon biorenewables production systems, and their societal impacts.

**In WSF: "Bioenergy", 26 November, 17:30-19:00**



**Mandë Holford**  
USA

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In addition of being assistant professor of chemistry at the City University of New York (USA), Mandë Holford also works in the American Museum of Natural History, being an example of a scientist who works in an interdisciplinary way. The dual commitment reflects the work of the researcher, who combined chemistry and biology to discover, characterize and deliver novel neuropeptides from venomous marine snails to manipulate cell signaling in the nervous system. She's received funds from the National Science Foundation (NSF), the National Institutes of Health (NIH), and Alfred P. Sloan Foundation to support her independent research. In 2013 she was awarded the prestigious Camille Dreyfus Teacher-Scholar Award. In 2011 she was awarded an NSF CAREER Award, and named a 21st Century Chemist in the NBC-Learn, Chemistry Now series. She is an inaugural member of the World Academy of Young Scientist (WAYS). She served on the Advisory Committee for Term Members of the Council on Foreign Relations. Her PhD is from The Rockefeller University.

**In WSF: "Young scientists and social innovators making science sustainable for the next generation", 26 November, 16:00-17:30**



**Manfred Hallschmid**  
GERMANY

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With a degree in psychology and a PhD in psychology / human biology, Hallschmid currently researches central nervous regulation of food intake and body weight, with a particular focus on the crosstalk between nutritional and cognitive factors and the relationship between sleep and metabolism. He is assistant professor in the Department of Medical Psychology and Behavioral Neurobiology of University of Tübingen. Since 2009, he has been project leader in the Collaborative Research Center Plasticity and Sleep.

**In WSF: "The medical challenge of old age", 25 November, 16:00-17:30**



## **Marcia McNutt**

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### **USA**

The American geophysical is publisher of Science magazine since June this year, and joined its Editorial Board between 2000 and 2009. Previously, she directed the United States Geological Survey for four years. During this period, she worked on a series of disasters, including the explosion of the Deepwater Horizon platform, helping to estimate the rate of oil discharge. Previously, she was president and CEO of the Monterey Bay Aquarium Research Institute, where she led in developing biological and chemical sensors for remote ocean deployment, installed the first deep-sea cabled observatory in U.S. waters, and advanced the integration of artificial intelligence into autonomous underwater vehicles for complex undersea missions. McNutt also joined the faculty of the Massachusetts Institute of Technology and was president of the American Geophysical Union. She participated in 15 major oceanographic expeditions, acting as chief scientist on more than half of them. She is currently open to new ways of communicating research results, which are made possible by the internet , but argues for the importance of scientific magazines as " prospectors " of the most important global science produced, and whose process of peer review tends to improve the quality of what is published .

**In WSF:** *"Science for natural resources"*, 26 november, 09:00-10:30



## **Marco Antonio Raupp**

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### **BRAZIL**

The current Minister of Science, Technology and Innovation in Brazil has always split his professional performance between academic field and the management of S&T institutions, where he encourages integration between research and industry. With a doctorate in mathematics from the University of Chicago, Raupp was associate professor in the Institute of Mathematics and Statistics of University of São Paulo, and his specialty is research in numerical analysis and applied mathematics. As director of the National Institute for Space Research, the minister had an important role in creating the CBERS program, of technological cooperation between Brazil and China. He was also president and director of the Brazilian Society for the Advancement of Science, a member of the International Academy of Astronautics (IAA) and chaired the Brazilian Space Agency (AEB). Raupp was part of the board of the public company Alcantara Cyclone Space (ACS).

**In WSF:** *"The fundamental roles of science in innovation"*, 26 November, 14:00-15:30; Closing Ceremony, 27 November, 12:30-13:30



## **Marlene Hamilton**

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### **JAMAICA**

Professor Marlene Hamilton was the first woman to become dean of the University of the West Indies, in Jamaica, with other two terms later. Currently, she is emeritus professor of the university, present in the Caribbean territories. With research in the areas of gender studies, social psychology and science education, Hamilton had an important role in issues such as sexual harassment, and she also implemented a stimulus program for students with special needs. Hamilton worked in the Public Service Commission of the Government of Jamaica and, in 2002, she was awarded the Order of Distinction from the Jamaican government for her services in higher education.

**In WSF:** *"The role of higher education in building a critical mass for global sustainability"*, 25 November, 17:30-19:00





## Mario Mariscotti

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ARGENTINA

PhD in physics from the University of Buenos Aires, where he is a professor of nuclear physics. Mariscotti was president of the National Academy of Sciences of Argentina. He works with physics applied to engineering, and he is founder and director of Research and Development of Reinforced Concrete Tomografia SA . He integrates steering committees and advisory boards of several national and international bodies such as UNESCO, in areas related to Science, Technology and Innovation. He was Director of Research and Development of the National Atomic Energy Commission of his country . He served as senior visiting researcher at Brookhaven National Laboratory, USA ; in the Institute Laue - Langevin (France ); University of São Paulo (USP); the University of Manchester ( England) and the Institut für Kernphysik (Germany) . Among the many awards he has received are the Konex Award; IPYME Award for Creativity and Technological Potential of the company he founded; the Kingdom Award of Innovation Management for the same company; and the Mercocidades Award for Innovation with impact on the Mercosul cities. He is a member of the Academy of Sciences for the Developing World (TWAS).

**In WSF:** *"Academy and enterprise"*, 26 November, 17:30-19:00



## Marlucia Bonifacio Martins

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BRAZIL

Graduated at the Federal University of Rio de Janeiro (UFRJ), with a Masters in Biology / Ecology at the National Institute of Amazonian Research (INPA) and a Ph.D. in ecology from the University of Campinas (Unicamp), Marlucia held postdoctoral internship at the Department of Ecology and Evolution at the University of Leeds, UK. Currently she is a researcher of the Goeldi Museum and also guiding teacher of the Federal University of Pará (UFPA). She served as visiting professor in Colombia and France. She coordinates the network of Eastern Amazonia of the Biodiversity Research Program of the Ministry of Science and Technology (CNPq / MCTI). Her research involves ecology, biodiversity, taxonomy, conservation, environmental changes, biological inventory, soil fauna and Amazon.

**In WSF:** *"Amazonia, biodiversity and sustainable development"*, 25 November, 16:00-17:30



## Martin Hynes

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FRANCE

With a background in science, technology and innovation policies, the engineer Martin Hynes has always had entrepreneurship in mind. He worked in the private sector as advisor to start-ups and in the area of product management at Westinghouse Electric Corporation. Since 2011, Hynes is executive director of the European Science Foundation. Before that, he was director of the Irish Research Council for Science, Engineering and Technology (IRCSET) and in this role he implemented a number of innovative funding schemes with a special focus on early career researchers. He devised special incentives for engaging young researchers with enterprise across public and private sectors and won significant Marie-Curie co-funding for these programs. With expertise in governance, he served also as chief scientific adviser to the Science Foundation of Ireland, supporting policies to encourage biotechnology and ICT.

**In WSF:** *"Young scientists and social innovators making science sustainable for the next generation"*, 26 November, 16:00-17:30





**Nicholas H. Steneck**  
USA

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Professor Emeritus of History at the University of Michigan, Nicholas H. Steneck has a long history of studies in the field of ethics. His line of work covers the research misconduct policy, responsible conduct of research instruction, the use of animals in research, classified research and academic freedom, the role of values in university research, and research on research integrity. Currently, Steneck is director of the Research Ethics and Integrity Program of the Michigan Institute for Clinical and Health Research. His work in this area began in the early-1980s, when the professor chaired the University of Michigan's pioneering Task Force on Integrity in Scholarship and later the Public Health Service Advisory Committee on Research Integrity (1991-1993). In 1992 Steneck became a member of the American Association for the Advancement of Science. He is also a consultant to the Federal Office of Research Integrity.

In WSF: *"Scientific Integrity"*, 25 november, 14:00-15:30



**Ninlawan Petcharaburanin**  
THAILAND

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With extensive experience as a researcher, Thai Senator Ninlawan Petcharaburanin works in the field of Science, Technology, Communication and Telecommunication. She completed her studies in the area of medical technology at Mahidol University, and obtained the master's and PhD's degree in bioscience management at the Technical University of San Francisco, in the United States. Petcharaburanin developed her research at Ramathibodi Hospital of the Faculty of Medicine of Mahidol University. The scientist was also founder and president of the laboratories BRIA LAB and Pacific Biotech and of Innovation Petchabun company, uniting research and entrepreneurship.

In WSF: *Parliamentary Session*, 27 november, 09:30-11:30



**Oudara Souvannavong**  
ITALY

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Professor Oudara Souvannavong is senior director of the United Nations Food and Agriculture Organization (FAO, its acronym in English) which aims to combat world hunger. Souvannavong operates in the Department of Forestry Division, which deals with issues such as conservation, management and evaluation of forests. He also leads research on conservation and diversity genetic trees, nursery practices and techniques for the creation and management of plantations, among other issues.

In WSF: *"Sustainable Planted Forests"*, 25 November, 17:30-19:00



**Patricia Miloslavich**  
VENEZUELA

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Patricia Miloslavich graduated in Biology at the Universidad Simón Bolívar, Venezuela and holds a Ph.D. in Oceanography from the University of Quebec at Rimouski, Canada. She is currently a Senior Professor at the Department of Environmental Studies, Universidad Simón Bolívar in Caracas, Venezuela, where she is in charge of the Marine Biology Laboratory and teaches Marine Biology, Reproduction of Marine Invertebrates, Principles of Biology, and Advanced Topics in Invertebrate Reproduction. She is a National Researcher SNI III and is responsible for the coordination of the Census of Marine Life Program in the Caribbean region and the Natural Geography in Shore Areas (NaGISA) project for South America. Her research focuses on

reproduction of marine invertebrates, especially gastropod mollusks, and on seagrass mollusk assemblages, being the Curator of the Mollusk Collection of the Museo de Ciencias Naturales at the Universidad Simón Bolívar. She is author of more than 30 publications in scientific journals and editor of the book Caribbean Marine Biodiversity: the known and the unknown.

**In WSF:** *"Applying Ocean Sciences and Knowledge for Societal Benefit: Demands after Rio+20"*, 25 November, 17:30-19:00



**Patricio Felmer**  
CHILE

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Patricio Felmer is a professor at University of Chile. He is a Mathematical Engineer from the University of Chile and he holds a Ph.D. in Mathematics from the University of Wisconsin-Madison, USA. He has been Director of the Mathematical Engineering Department (1999-2001), Member of Fondecyt Science Superior Council (2002-2005) and he is a Corresponding Member of the Chilean Academy of Sciences. Professor Felmer has made important scientific contributions in the area of Partial Differential Equations and Nonlinear Analysis. Along his career he has directed more than 10 theses in Mathematics, both graduate and undergraduate. During the last 10 years Professor Felmer has devoted important efforts to the improvement of the education in Chile, focusing on the formation of mathematics teachers at elementary and secondary level. He was distinguished with the TWAS-ROLAC Prize in Science Education (2011), the TWAS Prize in Mathematics (2011) and the National Prize in Exact Sciences of Chile (2011).

**In WSF:** *"Science and Engineering Education"*, 26 November, 11:00-12:30



**Paulo Beirão**  
BRAZIL

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Paulo Beirão graduated in Medicine at UFMG (1972), master's and doctorate from the Institute of Biophysics Carlos Chagas Filho, UFRJ (1976 and 1980 respectively), and post-doctorate from the University of Leicester, U. K. (1993). He is currently Coordinator of Global Research Council and Professor in the Department of Biochemistry and Immunology, UFMG. Was Research Associate at the University of Pennsylvania and Jefferson Medical College (1976-1977) and Honorary Research Fellow at the University of Leicester (1992-1993). He was president of the Brazilian Society of Biophysics (1994-1996) and the Brazilian Society of Biochemistry and Molecular Biology (2006-2008), and is vice-president of the Brazilian Society of Toxicology. Was Dean Researcher of UFMG (1998-2002) and under his management was elaborated the project of creation of the technological park of UFMG (BH-TEC). He was president of the Board of Trustees of FAPEMIG (2010-2011), and received honors and distinctions from students, government of Minas Gerais and the Federal government. He is Commander of the National Order of Scientific Merit and member of the Brazilian Academy of Sciences. He is director of Agricultural Sciences, Biological and Health at CNPq.

**In WSF:** *"Scientific Integrity"* 25 November 14:00-15:30



**Pavel Kabat**  
AUSTRIA

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Pavel Kabat became the tenth Director of the International Institute for Applied Systems Analysis (IIASA) in February 2012. As Director, Professor Kabat is the Chief Executive Officer of the Institute, responsible for the formulation, management, and administration of all research programs and other activities at IIASA. Previously, he held the Chair of the Earth System Science and Climate Change Group at Wageningen University and Research Centre in the HOLLAND, where he was also Chair of the Board of the Wageningen Climate Centre, and Science Director and Council Chair of the Dutch National Climate Research Program. Professor Kabat remains a

Professor of Earth System Science at Wageningen University, and Director and Chair of the Royal Dutch Academy of Arts and Sciences' Institute for Integrated Research on Wadden Sea Region. He was Co-Chair of two of the International Scientific Steering Committees of the International Geosphere-Biosphere Programmes, ILEAPS from 2004 to date and BAHC from 1994 to 2003; and the Science Director of the International Dialogue on Water and Climate and the International Cooperative Programme on Water and Climate from 2001 to 2009. He is on the editorial board of range of international scientific journals and is also a member of a variety of academies of sciences and learned societies, ranging from the Finnish Academy of Sciences to the Slovak Academy of Sciences. Professor Kabat has provided science and policy advice to numerous organizations and governments in various roles such as Chief Scientist for an Asian Development Bank project in Bangladesh from 2008 to 2010, Member of the Advisory Group on Climate to the Dutch Parliament, Member of the High Level International Mekong Delta Committee and Review Editor for the Fifth Assessment Report of the IPCC.

**In WSF: "Science for Natural Resources", 26 November, 09:00-10:30**



## **Péter Szijjártó**

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### **HUNGARY**

Péter Szijjártó is State Secretary for Foreign Affairs and External Economic Relations of Hungary. He is a Hungarian politician, member of the National Assembly of Hungary since 2002. He served as spokesman of Hungarian Prime Minister Viktor Orbán. Before Fidesz came to power in May 2010, Szijjártó was the spokesman of Orbán's Fidesz - Hungarian Civic Union. On 4 July 2012 Orbán nominated named Péter Szijjártó as the chairman of eight economic committees to boost the Hungarian government's policy of opening up trade with countries to the east as well as consolidating Hungary's role in supporting the Western Balkan nations' EU integration, the Central European Visegrád Group of heads of government announced the same day. Szijjártó, who had taken up post on 2 July, would also work to strengthen co-operation with neighboring countries.

**In WSF: Parliamentary Session , 27 November, 09:30-11:30**



## **Pierre Léna**

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### **FRANCE**

Pierre Léna is President of Foundation La Main à la Pâte. His scientific work is centered on infrared astronomy, a major branch of astronomy born in about 1960. With novel observations, he helped to model the solar atmosphere and its temperature minimum, and then switched to the far infrared emission of molecular clouds in our Galaxy and the diffuse emission of interstellar medium observed with an airborne telescope. Adapting to infrared the speckle interferometry discovered by the French scientist Antoine Labeyrie, he was the first, with his students, to apply it to star formation and to measure the size of dust cocoons around forming stars. He represented France on the governing Council of the European Southern Observatory (1986-1993), and directed the Graduate School of Astrophysics at Université Paris 7 (1976-1984 and 1992-1996) before becoming Director of the École Doctorale Astronomie d'Ile-de-France. His interest in educational matters led him to become President of the Institut National de Recherche Pédagogique (1991-1997) and to be an active member of La Main à la Pâte activity designed to renovate science education in schools. He was President of the Société Française de Physique in 1989 and from 2003 to 2007 President of the Comité d'éthique du CNRS. He built and was in charge of the Education office at the French Académie des sciences and became (2011) President of the new Foundation for science education, set by the Académie.

**In WSF: "Science and Engineering Education", 26 November, 11:00-12:30**



## Pilar Álvarez-Laso

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### FRANCE

Pilar Álvarez-Laso is Assistant Director-General for Social and Human Sciences of Unesco. She obtained a Bachelor's Degree in Communications from the Universidad Iberoamericana (Mexico), a Master of Arts Degree (Hons.) in Foreign Affairs from the Universidad Nacional Autónoma (Mexico) and has PhD work in Contemporary International Migration (Madrid). His career includes both social sciences and media responsibilities, notably in journalism (print media, television and radio), a senior civil servant, as well as research and teaching activities. She has also acted as Director of Information for the Electoral Federal Institute (IFE) in the first independent citizen-organized elections in Mexico. She was the International Spokesperson for the Promotion of the Absentee Vote in the first electoral campaign where emigrant Mexicans could vote. Over the course of her career, Ms. Álvarez-Laso launched the first educational television satellite channel in Mexico, promoted initiatives for people with special needs and immigrants, and developed educational programmes on democratic principles and values.

**In WSF:** *"Inequalities as barriers for global sustainability"*, 25 November, 09:00-10:30



## Reiko Kuroda

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### JAPAN

Reiko Kuroda graduated from Ochanomizu University and her obtained M.Sc and Ph.D. from the Graduate School of The University of Tokyo in chemistry. She worked in the Department of Chemistry and later of Biophysics, at King's College London as a post doc and later as a research fellow/honorary lecturer. She then obtained a permanent position at the Institute of Cancer Research (UK). She went back to Japan to take up a position of Associate Professor, and later became a full Professor, in the Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, before moving on to her current position at the Tokyo University of Science. She had and has many governmental and international appointments, including a member of CSTP, an advisory board to the Prime Minister on science and technology policy (2001-7), the vice president of the International Council for Science (ICSU) (2008-11), and the Japanese National Commission for UNESCO. She received an honorary professorship from the Sichuan University, Chengdu, China and an Honorary Doctorate from Chalmers University of Technology, Sweden. She is a member of the Science Council of Japan as well as a Foreign Member of the Royal Swedish Academy of Sciences.

**In WSF:** *"The Fundamental Roles of Science in Innovation"*, 26 November, 14:00-15:30



## Ricardo Paes de Barros

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### BRAZIL

Ricardo Paes de Barros holds a degree in Electronic Engineering from the Technological Institute of Aeronautics (1977), MA in Mathematics at the National Association of Pure and Applied Mathematics (1982), Ph.D. in Economics from the University of Chicago (1987), post-doctoral the University of Chicago (1988) and post-doctorate from Yale University (1989). He is currently a researcher at the Institute for Applied Economic Research and an assistant professor at the Pontifical Catholic University of Rio de Janeiro. Has experience in the area of demography, with an emphasis on Demographic Data Sources. Operates on the following topics: Econometrics, Parametric and Non Selectivity Estimation. Ricardo Paes de Barros is currently Secretary of Strategic Affairs of the Presidency of Brazil.

**In WSF:** *"Inequalities as Barriers for Global Sustainability"*, 25 November, 09:00-10:30





## **Richard Allen**

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### **USA**

Richard Allen is the director of the Berkeley Seismological Laboratory and a professor in the Department of Earth and Planetary Science, University of California at Berkeley. He holds a BS in Earth Sciences from Cambridge University in 1994, his Ph.D. in seismology from Princeton University in 2001 and was a postdoctoral fellow at Caltech, before taking his first faculty position at the University of Wisconsin in 2002. He moved to UC Berkeley in 2005, where his research group focuses on two themes. Your group of Earth images using 3D images of the internal structure of the Earth to understand the upwelling and down spouting plumes and plates, and surface deformation responsible for earthquakes. Its real-time earthquake information group focuses on the rapid determination of earthquake source parameters and is developing a methodology to deliver warnings before earthquake tremors being tested in California.

**In WSF:** *"Science and technology in the service of disaster risk reduction"*, 26 November, 16:00-17:30



## **Rodrigo Rollemberg**

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### **BRAZIL**

Rodrigo Rollemberg was deputy state secretary of Tourism, candidate for governor, and Secretary of Social Inclusion Ministry of Science and Technology under the Government of the Former President Lula, as Congressman. He has his first term in the Senate in Brasilia, elected with 738,000 votes.

**In WSF:** *"Parlamentary Session"*, 27 November, 09:30-11:30



## **Romain Murenzi**

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### **RWANDA**

Romain Murenzi is the Executive Director of the Academy of Sciences for the Developing World (TWAS), in Trieste, Italy. After graduating from the National University of Burundi in 1982, he taught mathematics in high school for three years before being awarded a fellowship for doctoral studies from the Catholic University of Louvain, where he earned his Doctorate Degree in physics in 1990. Murenzi subsequently became a Postdoctorate Researcher at the Center for Research and Advanced Training in Scientific Computation in Toulouse, France, and a Professor of Physics at Clark Atlanta University in the United States. Between 2001 and 2009, he served as the Minister of Science and Technology in Rwanda. He returned to the United States in 2009 to assume a joint appointment as Director of the Center for Science, Technology, and Sustainable Development at the American Association for the Advancement of Science (AAAS) in Washington, DC, and Visiting Professor at the University of Maryland's Institute of Advanced Computer Studies in College Park, Maryland. He was appointed Executive Director of TWAS in April 2011. Murenzi's major area of research is multidimensional continuous wavelet transforms to quantum mechanics.

**In WSF:** *"Science Diplomacy"*, 25 November, 16:00-17:30



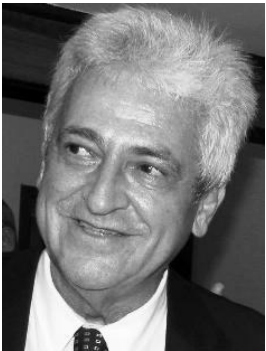


**Ronald Sederoff**  
USA

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Ronald Sederoff serves as a Member of Scientific Advisory Board of Biolex Incorporated. Dr. Sederoff is an internationally recognized researcher in the field of genomic science and serves as a Distinguished Professor in the Forestry Department at North Carolina State University. He also serves as Director of the Forest Biotechnology Group, the world's largest research group focused on the application of biotechnology to forest tree species. Dr. Sederoff is a Member of the National Academy of Sciences and holds Ph.D.

In WSF: *"Sustainable Planted Forests"*, 25 November, 17:30-19:00



**Ruy Garcia Marques**  
BRAZIL

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Graduated in medicine from the Faculty of Medical Sciences, UERJ (1973-1978), Ruy Garcia Marques became a specialist in general surgery by the Brazilian College of Surgeons. With a masters degree in gastroenterological surgery, Federal University Fluminense (1992 ), a PhD in technical and experimental surgery, Federal University of Minas Gerais (2001) and post -doctoral fellow at Medical University of South Carolina in Charleston, United States. Currently, Ruy Garcia Marques is an associate professor and head of the Department of General Surgery at the Faculty of Medical Sciences, UERJ, where he leads the discipline of operative technique and experimental surgery and is an assistant coordinator of the Graduate Program in Pathophysiology and Surgical Sciences of the University. He is also member of the Board of Higher Education and Research UERJ, the Selection Board of the Brazilian College of Surgeons, the Society for the Development of Research in Surgery, and consultant and ad hoc referee CAPES and FAPERJ. It also includes various entities, such as the American Association of Transplant Surgeons, the Board of Reviewers of the Journal of the Brazilian College of Surgeons, the Evaluation Committee of the Graduate Programs - Medicine III - CAPES. He works in medicine with an emphasis in general surgery, particularly in operative technique and experimental surgery. His research areas are: spleen and sepsis; nutrition in experimental surgery; healing and extracellular matrix; diabetes mellitus and transplantation of pancreas and pancreatic islets; tumors in digestive system.

In WSF: *Acknowledgment Session*, 27 November, 12:00-12:30



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Sérgio Pena graduated in Medicine at UFMG in 1970 and initially joined the clinical career, having done residency in Pediatrics and Medical Genetics in the United States and Canada. He became a Fellow of the Royal College of Physicians of Canada in 1975 in Pediatrics and has also obtained the title of specialist American Board of Pediatrics in 1976. Prof. Sergio Pena is Member of the Academy of Medicine of Minas Gerais (2003) and Member of the Mining Academy of Pediatrics (2005). Prof. Sergio Pena also writes a monthly column entitled "Genetic Drift" Today in Science online. He was President of the Brazilian Society of Biochemistry and Molecular Biology (1992-1993), President of the Latin American Program of the Human Genome - PLAGH (1992-1994), Chairman of the Committee of the South-American Human Genome Diversity Project (1994-1996 ), Board Member of the "Human Genome Organization" - HUGO (1994-1996) and the National Commission on Biosafety-CTNBio-(1995-1996), the Committee on Pathogenesis and Applied Genomics of Tropical Disease Research Branch of the World Health (2000-2002) and Member of the Advisory Committee on Genetics CNPq (2003-2007). Prof. Sergio Pena is currently a member of the Editorial Committee of Genetic Analysis and Technical Applications, Genetics and Molecular Research, Medical Journal of Minas Gerais and São Paulo Journal of Pediatrics. Sergio Pena created in 1996 and currently heads the Foundation Danilo Pena (FUNDAPE) that gives

scholarships to needy students with high intellectual potential.

**In WSF: "The Medical Challenge of Old Age", 25 November, 16:00-17:30**



**Shawn Mansfield**  
CANADA

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Shawn Mansfield is Canada Research Chair of University of British Columbia. His research interests are: tree biotechnology, relationship between genes expression and phenotypic fibre characteristics, plant metabolism (metabolomics), cell Wall development, cellulose biosynthesis, lignin biosynthesis, lignocellulosic chemistry and ultrastructure as it relates to wood quality, fibre morphology and chemistry as related to the formation and properties of paper, enzyme applications in the pulp and paper industry and enzyme-substrate interactions.

**In WSF: "Sustainable Planted Forests", 25 November, 17:30-19:00**



**Sibá Machado**  
BRAZIL

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In 1994, Siba Machado despite all difficulties and local resistance still faced by the Workers Party [Partido dos Trabalhadores] (PT) and he was the candidate most voted federal deputy in Acre, but did not reach the electoral quotient required to obtain a permit. In 1998, he was elected first alternate for state representative. Between 1999-2001, was parliamentary aide Legislative Assembly of Acre and in 1999-2001, he was Secretary of State - State Department of Agroforestry and Extension Family Production. In 2002, he was elected president of the state directory of PT, reelecting in 2004. Also in 2002, he was elected first alternate Senator Marina Silva, assuming the Senate seat during the trip the then Senator Marina to the Ministry of Environment. He was senator from 2003 to 2008 and on 2011 assumes his term as Congressman, as Deputy rated PT in Acre.

**In WSF: Parliamentary Session, 27 November, 09:30-11:30**



**Sumaya El Hasan**  
JORDAN

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Jordan's Princess Sumaya bint El Hassan argues that science and technology are the way to bring change in the Arab world. Therefore, she is dedicated to initiatives that promote education, research and innovation, so that these are triggers of sustainable development. She is president of El Hassan Science City, an institution that aims to produce knowledge through research, development and innovation. Its campus includes the Higher Council for Science and Technology (HCST), which sets S&T's policies and programs; the Royal Scientific Society (RSS), which is the largest institution for applied research in Jordan, and the Princess Sumaya Technological University (PSUT), a national nonprofit university focused on ICT. Sumaya strives to stimulate the potential of the young talents of her country through education and opportunity.

**In WSF: Closing Ceremony, 27 November, 12:30-13:30**



**Takashi Onishi**  
JAPAN

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Takashi Onishi is President of Science Council of Japan (SCJ). With a Ph.D. degree in Engineering given by The University of Tokyo, and his fields of study on City Planning & Regional Planning, as well as on Social System Engineering & Safety System, he has been serving as a professor at The University of Tokyo and a Visiting Professor at the Institute of Advanced Studies of United Nations University, having been publishing more than 1,000 scientific papers and books. He also served as a member or a chairperson of Government committees in city and regional planning as well as regional socio-economic development fields, such as deputy chair of National Land Council, member of Industrial Structure Council and so on. As President of SCJ, Professor Takashi Onishi has been dedicating himself, while taking his strong initiative in preparing and publishing statements, recommendations and others, targeting to policy makers, scientific communities and the general public, to addressing significant global issues, including those relating the Great East Japan Earthquake. As appointed in 2011 by Mr. Yoshihiko Noda, the Prime Minister of Japan, Professor Onishi served as the chair of the Frontier Subcommittee of the Council on National Strategy and Policy in Japan, for setting out a vision that brings about a breakthrough in the current situations for the future of Japan. Professor Takashi Onishi has been a member of the Council for Science and Technology Policy (CSTP), which was set up in the Cabinet Office for serving as the headquarters for the promotion of S&T policy; overlooks all of the nation's S&T, and formulates comprehensive and basic policies, and conducts their overall coordination. In overseas activities, Professor Onishi worked as urban regional development expert for World Bank in Abidjan, Cote d'Ivoire, JICA in Bangkok, Thailand, Jakarta, Indonesia, Hanoi, Vietnam, Kabul, Afghanistan, and recently was appointed a member to the Science and Technology Advisor Group of United Nations International Strategy for Disaster Reduction.

**In WSF:** *"Science Policy And Governance: Inventing The Future"*, 25 November, 11:00-12:30



**Tateo Arimoto**  
JAPAN

arimoto@jst.go.jp

Tateo Arimoto is Professor and Director of Science, Technology and Innovation Policy Program of National Graduate Institute for Policy Studies, Japan. Tateo Arimoto is currently Professor, Science, Technology and Innovation Policy Program, GRIPS and Deputy Director-General of CRDS, JST. He has been involved in Japan's S & T policy making intensely. He previously served as Executive Research Fellow, Economic and Social Research Institute, Cabinet office. He held the position as a Director General of Science & Technology Policy Bureau, Ministry of Education and Science. Mr. Arimoto now oversees an ambitious effort to foster innovation to address social challenges in the globally connected world. He has published several books and numerous papers in quality journals and given many invited lectures. e.g. "Science and Technology Policy" (by T. Arimoto, in *Have Japanese Firms Changed*, Palgrave Macmillan, 2011), "Rebuilding Public Trust in Science for Policy Making".

**In WSF:** *"Science Diplomacy"*, 25 November, 16:00-17:30



**Thomas Rosswall**  
SWEDEN

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Thomas Rosswall received his MSc in microbiology from the University of Uppsala and was appointed Associate Professor of Soil Ecology and full Professor, at the Swedish University of Agricultural Sciences, Uppsala. He is Professor emeritus and Chairman of Independent Science Panel of the CGIAR Research Programme on Climate Change, Agriculture and Food Security. Thomas has been instrumental in the development of microbial ecology, both nationally and internationally. His work on carbon and nitrogen cycling has ranged from microcosm to global studies and has linked deep process understanding to modelling efforts of entire systems at different scales. In this capacity, he was centrally involved in the planning and coordination of ecosystem studies in tundra, forest and agricultural systems. He has published over 100 scientific papers and edited 12 books. Prof. Rosswall has recently retired as Executive Director of the International Council for Science (ICSU), Paris, France. Formerly he was Director of the International Foundation for Science (IFS), President/Rector of the Swedish University of Agricultural Sciences, Director of the International START Secretariat, Executive Director of the International Geosphere–Biosphere Programme (IGBP) and Professor of Water in Nature and Society at the Universities of Stockholm and Linköping, Sweden. He is an elected member of six learned societies, including the Royal Swedish Academy of Sciences, Academia Europaea and the Academy of Sciences for the Developing World (TWAS).

**In WSF:** *"Challenges and opportunities of interdisciplinary and transdisciplinary science for sustainability: future Earth"*, 26 November, 17:30-19:00



**Umar Buba Bindir**  
NIGERIA

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Umar Buba Bindir is director general of National Office for Technology and Promotion, Nigeria. He attended Hammawa Primary School, Yola, went to Yelwa Government Secondary School Yola and later university of Maiduguri where he graduated with a First Class Honours Degree in Agricultural Engineering from the University in 1983. In his quest to climb to the zenith of his chosen profession, Dr Bindir proceeded to the prestigious Cranfield University, UK and graduated with a Masters Degree in Farm Power and Machinery Engineering. He thereafter enrolled for his Doctoral Degree Programme in Machinery Design and Development Engineering at the same University and successfully completed his PhD in 1991. Dr Umar Buba Bindir is a thorough Technology Penetration Professional and an accomplished Engineer. His ingenuity and exquisite skills in ideas generation and innovate Project Development and Implementation easily stands him out in all his places of primary assignment. Presently he is the driving force behind the strategies to narrow the gap between academia and industry. He is the champion on the strategy to develop Science and Technology Parks in Nigeria. He is currently the anchor person on the project to forge a Science, Technology and innovation Corridor along the 30-40Km airport road in Abuja. Dr Bindir's passion mainly lies in the industrialization of the Nigerian economy through timely deployment of Technology. Dr Bindir's vast experience in the use of Technologies and Innovation in development work in the rural and Sub-urban setting is most relevant at this time of reforming the Nigerian economy to be among the top 20 in 2020.

**In WSF:** *"The Fundamental Roles of Science in Innovation"*, 26 November, 14:00-15:30



**Vaughan Turekian**  
USA

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Vaughan Turekian is the Chief International Officer for the American Association for the Advancement of Science (AAAS). In this role, he leads, develops and coordinates the broad range of AAAS's international activities. He is also the Director of AAAS's Center for Science Diplomacy and Editor-in-Chief of Science & Diplomacy, a quarterly publication from the Center. Both the Center and the publication aim to bring together stakeholders from the scientific and foreign policy communities to identify ways to better apply science cooperation to building relationships between and among nations. Dr. Turekian served as Special Assistant to the Under Secretary of State for Global Affairs, where he was a lead advisor on international science, technology, environment and health issues, including, clean energy, sustainable development, climate change, scientific outreach and avian influenza. He is the two-time recipient of the Department's Superior Honor Award for his work on climate change and avian influenza. Prior to his time at the State Department, Dr. Turekian worked at the National Academy of Sciences (NAS). In 2001, he was the Study Director for the White House-requested NAS report on climate change science. He is a member of the Council on Foreign Relations and a Nonresident Fellow in Foreign Policy at the Brookings Institution and has published a numerous articles on the linkages between science and international policy. Dr. Turekian received his master's and doctorate in atmospheric geochemistry from the University of Virginia. He is a graduate of Yale University with degrees in geology and geophysics and international studies.

**In WSF:** *"Science Diplomacy"*, 25 November, 16:00-17:30



**Virginia Murray**  
UNITED KINGDOM

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Virginia Murray is qualified in medicine. She joined Guy and St Thomas's Hospital Poisons Unit in 1980 and in 1986 was appointed consultant medical toxicologist. In 1989 she started Chemical Incident Research Programme and was Director of Chemical Incident Response Service from 1995. Since April 2003 she has worked for the Centre for Radiation, Chemicals and Environmental hazards (CRCE) (part of Public Health England - formerly the Health Protection Agency). She has considerable experience in advising on toxicological and environmental public health aspects of response to acute and chronic chemical and extreme event incidents. Appointed as Visiting Professor in Health Protection, Visiting Professor in Health Protection, MRC-HPA Centre for Environment and Health, Imperial College and King's College, London (2004) she has published widely. On 1 January 2011, she was appointed as Head of the new Extreme Events and Health Protection section, Health Protection Agency (now Public Health England) and is taking forward work on evidence base information and advice on flooding, heat, cold, volcanic ash, and other extreme weather and natural hazards events. She is the UK Government member on the UN International Strategy for Disaster Reduction (ISDR) Scientific and Technical Committee since 2008. Since 2009 she has been a Coordinating Lead Author for the Intergovernmental Panel on Climate Change Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation, published in March 2012. She is one of the 15 members of the UNISDR Advisory Group for the Post-2015 Framework for Disaster Risk Reduction representing health, and with two other members, science.

**In WSF:** *"Science and technology in the service of disaster risk reduction"*, 26 November, 16:00-17:30





## Volker ter Meulen

GERMANY

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Volker ter Meulen is Co-Chair, The Global Network of Science Academies and qualified as MD in 1960. He received his post-doctoral training in virology in the USA, at the Children's Hospital of Philadelphia. He was full professor and Chairman of the Institute of Virology and Immunobiology at the University of Würzburg and retired in 2002, having twice been elected Dean of the Faculty of Medicine of Würzburg University. During his research career, ter Meulen worked on molecular and pathogenic aspects of viral infections in man and animals, in particular on infections of the central nervous system. Due to the recognition of his research achievements and his experience in heading a Medical Faculty, ter Meulen has on numerous occasions been invited to give policy advice on research matters to German research organisations and to state and federal ministries of science in Germany. Internationally, ter Meulen has served on a number of committees of organisations and scientific societies/unions in the area of virology and infectious diseases, covering a broad spectrum of important issues connected to human and animal pathogens. From 2003-2010, ter Meulen was President of the German Academy of Sciences Leopoldina. Under his leadership, the Leopoldina strengthened its international commitments in different inter-academic councils and was appointed National Academy of Sciences in 2008. From 2007-2010, he was President of the European Academies Science Advisory Council (EASAC), the association of the National Science Academies of the European Union, which is the IAP associated regional network for Europe. He was elected IAP Co-Chair in February 2013.

**In WSF:** *"Science and engineering education", 26 November, 11:00-12:30*



## Wendy Watson-Wright

FRANCE

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Wendy Watson-Wright is the Executive Secretary and Assistant Director General of the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization (IOC-UNESCO). Headquartered in Paris, IOC-UNESCO has the mandate within the United Nations system for ocean science, observations, data and information exchange, and services, including global tsunami warning systems. It is also the competent international organization for marine science and technology transfer under the United Nations Convention on the Law of the Sea. From 2001 to 2009, she was Assistant Deputy Minister, Science, for Fisheries and Oceans Canada where she was responsible for providing the policy direction and scientific leadership for all science activities in the department's fifteen science sites throughout Canada. She also co-chaired for a number of years the ADM S&T Integration Board and the Industry Canada ADM Committee on Science and Technology. She is or has been a member of several boards including the Canadian Foundation for Climate and Atmospheric Science, Ocean Networks Canada, ArcticNet and the Strategic Advisory Board for the EU Joint Programming Initiative on Oceans (JPI Oceans), and was one of two Canadian Commissioners on the Great Lakes Fishery Commission. More recently, she was a member of the Council of Canadian Academies Expert Panel on the Assessment of Ocean Science in Canada. She holds a Ph.D. in Physiology from Dalhousie University in Halifax, Nova Scotia, Canada.

**In WSF:** *"The role of higher education in building a critical mass for global sustainability", 25 November, 17:30-19:00*



**Wolfgang Junk**  
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Wolfgang Junk is retired leader of the Working Group of Tropical Ecology at Max Planck-Institute for Limnology, Plön, Germany and now is scientific coordinator of the National Institute for Science and Technology in Wetlands (INCT-INAU), Cuiabá, Brazil, and a visiting professor at State University of Manaus (UEA) and Federal University of Mato Grosso. He is also a professor at the University of Hamburg, Federal University of Mato Grosso (UFMT), Cuiabá, and Federal University of Amazonas / INPA, Manaus. Professor Junk is an expert in ecology and sustainable management of floodplains and land-water interactions, and has a long distinguished career of research in the Amazon River and Pantanal Basins in South America. He is editor of *Amazoniana* and a member of the editorial boards of several other international journals. He is on scientific advisory board of the Argentinean National Limnological Institute (INALI) and the Center of Pantanal Research CPP. Dr. Junk has received the Award of the Grande Cruz, (the highest distinction in Brazil) in 1998 for exceptional scientific performance, an International Fellow Award of the Society of Wetland Scientists in 1999, honorary diplomas of the Asociación Colombiana de Limnología and the Universidad Nacional de Colombia, Sede Leticia in 2002, an Honorary Warwick Kerr Medal for relevant services for Post-Graduation in Amazonia in 2005, an honorary plaque of the Federal University of Mato Grosso UFMT for significant contributions to the university and environmental protection of wetlands, at the 8th INTECOL Wetland Conference in 2008, and the Cross of Merit first class of the Federal Republic of Germany in 2008.

**In WSF:** *"Amazonia, Biodiversity and Sustainable Development"*, 25 November, 16:00-17:30



**Yuichi Ono**  
JAPAN

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PhD in geography (climatology and wind-related hazard) by Kent State University, USA, Yuichi Ono worked, from 2002 to 2003, in the World Meteorological Organization (WMO), where he contributed to developing the disaster risk reduction programme. From 2003 to 2009, Ono worked on an early warning system and helped manage in the ISDR Scientific and Technical Committee UN International Strategy for Disaster Reduction (ISDR). He is former chief of the Disaster Risk Reduction Section, ESCAP, providing a regional platform for cooperation and policy-making for disaster risk reduction, with particular attention to developing countries and vulnerable social groups. Currently, Yuichi Ono is a professor of the International Research Institute of Disaster Science, Tohoku University.

**In WSF:** *"Science and technology in the service of disaster risk reduction"*, 26 November, 16:00-17:30



**Zelmira May**  
URUGUAY

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Zelmira May is consultant on Water Sciences, Regional Office for Science for Latin America and the Caribbean, IHP, UNESCO. She is an Agronomy Engineer (UdelaR, Uruguay) and holds a MSc on Water and Environmental Management from WEDC, Loughborough University of the UK. Along her professional life, May has worked in the field of water resources management in several international organizations acquiring wide experience in the execution and implementation of water programmes at the global and regional level. Over the past ten years she has been working at the Division of Water Science of UNESCO based in the Regional Office for Science for Latin America and the Caribbean, being presently responsible for the implementation of the International Hydrological Programme (IHP). The IHP is the only scientific intergovernmental water programme in the UN System. As coordinator for the implementation of UNESCO water programme in the region, she is responsible for development and execution of the water initiatives, and of fostering and strengthening the network of the IHP, composed by its National

Committees, UNESCO water-related Centres and Chairs, and other relevant partners in the region. She acted as Executive Secretary of the Global Water Partnership in Uruguay, an organization aiming at fostering the integrated management of water resources. Moreover, she was the Executive Secretary of the Interamerican Water Resources Network, a network of organizations and individuals working on water in the Americas. Furthermore, May is the Executive Director of the AquaLAC scientific journal and guest editor in the Special Journal Issue on Sciences in Cold and Arid Regions for Water and Development Information for Arid Lands – a Global Network (G-WADI). Moreover, she is member of the Board of Directors of the Water Web Consortium.

**In WSF: "Water cooperation and security", 26 November, 16:00-17:30**



**Zurina Amnan**  
**MALAYSIA**

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Zurina Amnan entrenched in the Group's operations, managing 5 additives and biofuels processing, blending and storage plants, 19 pressing mills, 471 nurseries and collection centres and over a million acres of Jatropha plantation. Her investment into Nano-Emulsion and Polarization technology in biofuel production has created a revolutionary in energy sector towards bio-energy sustainability and security. The production cost has reduced tremendously and the use of multi-feedstock has resulted to biofuels are offered at very competitive price. She spent many years to prove the technology by conducting various tests of performance and emission in various climate conditions in many countries. Bionas' products have been tested and approved by reputable agencies and government bodies including SGS and U.S EPA. Her passion towards bioenergy is expressed through her offer for technological collaboration to any countries in the world to streamline and implement their National Biofuel Policy.

**In WSF: "Bioenergy", 26 November, 17:30-19:00**