



Science for Poverty Eradication and Sustainable Development: a Call for Action

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SPEAKERS



Alan Jorge Bojanic Helbingen (Bolivia)

Mr. Bojanic holds a Degree in Agricultural Engineering from the Gabriel René Moreno University of Santa Cruz, Bolivia, a Diploma in Agricultural Economics from the University of Reading, UK, and an M.Sc. in Agricultural Economics from the University of London, U.K. He also has a Ph.D. in Environmental Economics from the University of Utrecht, the Netherlands, and a M.Sc. in Political Sciences from the University of Costa Rica, San José, Costa Rica. He carried out post-graduate studies in the Netherlands. From 1992 to 1994, he was Executive Director of the National Secretariat for the Environment of Bolivia, and in that same year was appointed Under-Secretary for Forest Development and Fisheries, Ministry of Rural Affairs and Agriculture, Bolivia. From 1995 to 1997, he worked with UNDP as Adviser on Sustainable Management of Natural Resources in Bolivia. In 2001, he was appointed Vice-Minister for Agriculture, Livestock and Fisheries, Ministry of Agriculture, Bolivia and, in 2002, Senior Adviser to the Minister for Agriculture. In 2004, he was Executive Director of the Bolivian National Service of Agricultural Health and Food Safety. Mr Bojanic has also worked as a consultant in a variety of areas relating to agricultural technology transfer for a range of international organizations, including the World Bank, USAID and UNICEF. From March 2005 to August 2010, Mr Bojanic was FAO Representative in Costa Rica. In September 2010, he was appointed Deputy Regional Representative and Head of the Multidisciplinary Team for South America, Regional Office for the Caribbean, RLC, Santiago, Chile, where, from February to June 2011, and then from December 2011 to May 2012, he acted as Officer-in-Charge. In January 2012, he resumed his duties as Deputy Regional Representative, Regional Office for Latin America and the Caribbean, RLC, Santiago, Chile. Mr. Bojanic succeeds Mr. Hélder dos Santos Félix Monteiro Muteia as FAO Representative in Brazil.



Alexander Kellner (Brazil)

Paleontologist, Dr. Alexander Kellner got a degree in Geology from the Federal University of Rio de Janeiro where he also concluded his masters. In 1996 he obtained his Ph.D. from the Columbia University in a joint program with the American Museum of Natural History (New York). Since 1997, he works at the Museu Nacional/UFRJ in Rio de Janeiro, where he develops research on ancient ecosystems and fossil vertebrates, mainly extinct Mesozoic reptiles, having described over 50 new species. He has organized and participated in numerous field activities, including remote areas of Brazil, Iran, China, Chile and Antarctica. He is also involved in communicating science to the public, having organized several exhibitions. He is member of the Brazilian Academy of Sciences, and associated researcher and honorary member of several institutions and societies.



Amr Farouk Abdelkhalik (Egypt)

Dr. Abdelkhalik was born on the 21st of April 1970. He got his PhD in plant genetics from Nihon University, Japan in 2005. Since 2010 till present, Abdelkhalik is working as a Senior Associate Professor, Egyptian Agriculture Research Center, Rice Research Department. In 2008, Dr. Abdelkhalik has been appointed as an Advisor to the Minister of Scientific Research. He also joined the Ministry of Agriculture as a Head of COMESA Office in Cairo starting February 2011 where he developed several strategies to enhance Agricultural cooperation with the African Countries. In August 2012, Dr. Amr Abdelkhalik was in charge of Knowledge based SMEs, Technology Transfer Offices, partnership with industry, Entrepreneurship and Technology Commercialization, as he was appointed as Assistant to the president of Scientific Research and Technology. Dr. Abdelkhalik has been appointed as the Responsible of the National Initiatives in the science and Technology Development Fund (STDF). In May 2014 till present, Dr. Amr has been appointed as the Assistant to the President of the Academy of Scientific Research and Technology where he is directly responsible for the Regional Research Centers and National Campaigns and Initiatives Programs (ASRT). Abdelkhalik has led several to support the production of several strategic crops in Egypt as wheat maize, rice and cotton; this is in addition to several other initiatives to connect scientific research with industry.



André Portela Fernandes de Souza (Brazil)

He has a degree in Economics from the Federal University of Bahia (UFBA), a master's from the University of São Paulo (USP) and a PhD from Cornell University in the United States, where he was also a visiting professor. He was a professor at USP and at Vanderbilt University (USA). He was the editor of the "Economic Studies" magazine. He also served as executive secretary of the Brazilian Econometric Society (SBE). He is a professor at the School of Economics of São Paulo of the Getúlio Vargas Foundation (FGV) and coordinator of the Applied Microeconomics Center (C-Micro) at the same institution.



Aya Abe (Japan)

Dr. Aya K. Abe is the director of the Department of Empirical Research on Social Security at the National Institute of Population and Social Security Research (NIPSSR) which is a research arm of the Ministry of Health, Labour and Welfare in Japan. She studied at the Massachusetts Institute of Technology, and received an MA and a Ph.D. from the Fletcher School of Law and Diplomacy, Tufts University. Her main field of research is poverty, social exclusion, social security and public assistance. She is one of the leading researchers on poverty and inequality in Japan, especially with regard to children. She was awarded the Avon Award for Women in 2009, and the Nikkei Economic Literature Award in 2008 for her co-authored book *Seikatu Hogo no Keizai Bunseki* (Economics of Public Assistance, Tokyo University Press, 2008). She serves on numerous government committees. She was part of the Japanese research team for the project Political and Social Economy of Care (2006-2009), an international comparative research for The United Nations Research Institute for Social Development (UNRISD). She is also a key research participant for "The National Survey on Social Security", "The Research on the Poverty and Inequality and Effects of Poverty Alleviation Policy" and "Research on National Minimum Standards of Health and Social Services". Prior to her research career, she has served as an aid officer at the Overseas Economic Cooperation Fund of Japan (now merged with Japan International Cooperation Agency) managing Japan's official loans to other countries. She also worked as an associate expert at the Asian and Pacific Center for Technology Transfer, ESCAP, in India.



Bahru Zewde (Ethiopia)

Bahru Zewde is Emeritus Professor of History at Addis Ababa University. He has authored several books and articles, most notably *A History of Modern Ethiopia 1855-1991* (2001) and *Pioneers of Change in Ethiopia: The reformist intellectuals of the early twentieth century* (2002). He has served as Chair of the Department of History at Addis Ababa University (1982-1986) and Director of the Institute of Ethiopian Studies (1993-1996). He is currently the Executive Director of the Forum for Social Studies, Member of the Board of Trustees of Trust Africa and Editor of the *Africa Review of Books*.



Bai-Mass Taal (Gambia)

Is Executive Secretary, African Ministerial Council on Water (AMCOW) and Former Minister for Water Resources of the Gambia. Mr. Bai-Mass Taal was appointed the first Executive Secretary of AMCOW on 10 May 2008. Mr. Taal served as a Cabinet Minister in The Gambia, first as Secretary of State for fisheries, Natural Resources and the Environment in 2004-2005 and later as Secretary of State for Fisheries and Water Resources from 2005 to 2006. Prior to holding high political office, Mr. Taal had an illustrious record in national and international civil service arenas, having occupied several top government appointments in The Gambia before joining the United Nations Environment Program. A conscientious and productive UNEP staff member, he served from 1991-1998 as Chief of Forests and Other Ecosystems [Senior Program Officer], in 1998-1999 as Task Manager (Biodiversity Program) and finally from 2000-2004 as Head of Interagency and Intergovernmental Processes. His career at UNEP was preceded by equally important professional engagement at the national level.



Blanca Jiménez Cisneros (Mexico)

Ms. Blanca Jimenez Cisneros was born in Mexico and holds a Degree on Environmental Engineering specialized in water from the Universidad Autonoma Metropolitana; a Master's and a Doctorate (Water and Wastewater Treatment) from the Institut National des Sciences Appliquees (INSA) in Toulouse, France. Among her most outstanding positions, she has been President of the International Water Association in Mexico; Vice President of the Mexican Academy of Sciences; Professional Development Coordinator at the Mexican Institute of Water Technology (IMTA); Deputy Director of Hydraulic and Environmental Engineering Institute of National Autonomous University of Mexico (UNAM); President of the College of Environmental Engineers of Mexico and the Mexican National Engineering and Environmental Sciences. At the international level, Ms. Jimenez Cisneros was a Senior Expert Consultant to the Governments of Argentina, Ecuador, Guatemala, India, Mexico, Nicaragua, Spain and South Africa in wide range of issues including the formation of national wastewater treatment programmes, water re-use; as well as co-Chair of the Inter-American Network of Academic Sciences and member of the Executive Committee of the International Water Association. She has received several awards, the most remarkable being the Global Water Award of the International Water Association (2010); the National Prize of Sciences and Arts in Engineering (2009); the Award of the National University in Technological Innovation (2008); Nobel Peace Prize for her participation in the 4th IPCC Report on climate change (2007); National Environmental Merit Award (2006) and The Royal Order of the Polar Star (2002) delivered by His Majesty Carl XVI Gustaf, King of Sweden.



Carlos Gustavo Nunes da Silva (Brazil)

He has a degree in agronomy from the Federal University of Uberlândia (UFU), a master's degree in biological sciences from the National Institute for Amazonian Research (INPA) and a PhD in biotechnology from the Federal University of Amazonas (UFAM). He is a professor at UFAM, where he teaches the subjects of genetic engineering and molecular biology. He is part of the faculty of the Postgraduate Program in Biotechnology, also at UFAM (PPG Biotec) and of the Biodiversity and Biotechnology Network of the Amazônia Legal (PPG Bionorte). He is the coordinator of UFAM's team at the International Genetically Engineered Machine competition (iGEM).



Cecilia Veronica Nunez (Brazil)

Cecilia has a degree in chemistry from the Mackenzie Presbyterian University, a master's, doctorate and post-doctorate in organic chemistry (natural products), from the University of São Paulo (USP) and a postdoctoral in pharmacognosy from the Université de Lille-2, Droit et Santé, in France. She is currently a Senior Technologist at the National Institute for Amazonian Research (INPA) and a professor of the Postgraduate Program in Biotechnology (UFAM / Inpa), Biotechnology (UEA/Inpa), Botany (Inpa), Bionorte (UFAM/Inpa) and Chemistry (UFAM / Inpa). She was also an Affiliate Member of the Brazilian Academy of Sciences from 2007 to 2012.



Charles Clement (Brazil)

He has a degree in biology from the University of Connecticut (UConn), a master's degree in biology with a major in genetics from the University of Costa Rica (UCR) and a doctorate in horticulture from the University of Hawaii in the United States. He is currently a senior researcher at the National Institute for Amazonian Research (Inpa), and a collaborating professor at the Federal University of Amazonas (UFAM) and at the Federal University of Santa Catarina (UFSC).



Claudio Bifano (Venezuela)

Claudio Bifano received a bachelor's degree in chemistry from the Universidad Central de Venezuela (UCV), Facultad de Ciencias, in 1962, and a Ph.D degree in chemistry from the University of California, San Diego, in 1975. He is full Professor of chemistry at the Facultad de Ciencias, and the Earth Science Institute UCV. His line of research is the geochemistry of contaminated surface waters, sediments and soils in natural environments, particularly referred to distribution, accumulation and transport of inorganic and organic species. He has been general director of research and vice-president of the Venezuelan Council of Scientific Research, CONICIT, (1996-1998); general secretary of the Venezuelan Association for the Advancement of Science, AsoVAC, (1970 and 1976); dean of graduate studies of the Facultad de Ciencias, director of graduate studies of the Universidad Central de Venezuela and director of the National Graduate Advisory Council (1998-2010). He has been also president of the Venezuelan Chemical Society; president of the Association for the Advancement of University Research APIU-UCV. Member of the Latin American Academy of Sciences and president of the Venezuelan Academy of Sciences for the terms 2005-2009 and 2011-2015.



Dipak Gyawali (Nepal)

Director, Nepal Water Conservation Foundation; Pragma (Academician) Royal Nepal Academy of Science and Technology. Dipak Gyawali is a hydroelectric power engineer and a political economist who, during his time as Nepal's Minister of Water Resources in 2002/2003, initiated reforms in the electricity and irrigation sectors focused on decentralization and promotion of rural participation in governance. He also initiated the first national review and comparison of Nepali laws with the guidelines of the World Commission on Dams. Mr. Gyawali has been a visiting professor at the UN University in Japan as well as research scholar at the East-West Center in Hawaii, Queen Elizabeth House in Oxford, the London School of Economics and the International Environment Academy in Switzerland. His research focuses on the interface between technology and society as related to water and energy issues. Mr. Gyawali has served on several government commissions related to Himalayan water and energy resources development; has served as a member of the panel of experts for the Mekong River Commission reviewing its basin development plan; has published extensively both academically and in the popular press on water resource, environment and development issues; was the founding chair of the poverty alleviation focused NGO, Rural Self Reliance Development Center; is the founding chair of Nepal's first liberal arts college, the Nepa School of Social Sciences and Humanities; and serves as advisor to Nepali associations such as Biogas Support Program and to international organizations such as The STEPS Center/University of Sussex and UN World Water Assessment Program (Perugia, Italy).



Eduardo Moacyr Krieger (Brazil)

He has a degree in medicine from the Federal University of Rio Grande do Sul (UFRGS) and a PhD in cardiovascular physiology, from the Ribeirão Preto Medical School, University of São Paulo (FM/USP). He worked at the Heart Institute at the Clinical Hospital of the Faculty of Medicine of the University of São Paulo, guiding a multidisciplinary research team. He coordinated a Translational Cardiology Program at the Heart Institute (Incor). He was the president of the Brazilian Academy of Sciences from 1992 to 2007. He is currently the executive director of the International Relations Committee (CRIInt FM / USP), vice president of the Research Support Foundation of São Paulo (FAPESP) and president of the Management Board and Strategic Studies (CGEE).



Ernst van Groningen (Sweden)

Dr. Ernst van Groningen joined the International Science Programme (ISP) at Uppsala University in 2007 as the program director for ISP's subprogram in the physical sciences. As the program director is in charge of the management and supervision of about 30 activities on research capacity building in the field of physics and related science fields like astrophysics and geophysics at universities in low-income countries in Africa, Asia and Latin America. He has also been responsible for the coordination of Swedish bilateral development programs, e.g. a program on Natural Disaster Mitigation in Central America financed by the Swedish International Development Cooperation Agency (Sida). By trade an astrophysicist, he has been an active researcher for more than twenty years between the early 1980's and turn of the century. At the time he ended his research career, he was an Associate Professor in astrophysics at the University of Uppsala.



Fola Esan (Nigeria)

I graduated MB BS with honours from the University College, Ibadan (University of London) in 1962 gaining distinctions in Pathology and Obstetrics and Gynaecology. After postgraduate training in Ibadan, Nigeria, London, UK, and in the USA (New York and San Francisco), I was appointed Professor of Haematology in Ibadan in 1975, a position from which I voluntarily retired in 1988. I served as the Director (re-designated Director-General) at the National Institute for Medical Research, Yaba, Lagos, 1986-88. I then worked in academic institutions in the Middle East (Saudi Arabia and UAE) and returned home to set up (with Professor G B Ogunmola, a retired professor of chemistry) the Institute of Genetic Chemistry and Laboratory Medicine in Ibadan. I was appointed Provost, College of Medicine, Ekiti State University between April 2009 and July 2013 with a remit to resuscitate the suspended College where I am currently employed as a Professor. My area of specialization in Haematology is the haemoglobinopathies and thalassaemia for which I received grants and awards including the Langley Memorial Prize of the London School for Tropical Medicine and Hygiene in 1974. I was the Foundation Secretary of the Nigerian Society for Haematology and Blood Transfusion and later served two terms as President. I was elected Fellow of the Nigerian Academy of Science in 1982 and have served in various capacities including Editor of The Proceedings, member of Council, Lead Person for the Forum on Evidence-based Health Policy Making, Chairman, Health Sciences Committee and IAMP Contact Person and member of the IAMP Executive Committee.



Garry Aslanyan (Canada)

Dr. Garry Aslanyan joined the Special Programme on Research and Training on Tropical Diseases (TDR) of the World Health Organization (WHO) in June 2009 and is responsible for development of policy frameworks to support the program's new vision and strategy, including TDR's collaborations with six Regional Offices of WHO and coordination of ESSENCE, an initiative of research funders. Prior to this position, Dr. Aslanyan spent two-years at the Public Health Agency of Canada (PHAC) as Principal Advisor of the International Public Health Division in order to develop PHAC's international policy framework with the focus on its multilateral relations with the key organizations such as WHO and PAHO. From 2001 to 2007, Dr. Aslanyan worked as the Senior Health Advisor and later Team Leader of the Health Systems, Research and Analysis group at the Canadian International Development Agency (CIDA) where he was responsible for development of CIDA's policies in the health sector programming, including immunization, communicable and non-communicable disease prevention and control, health research and other international development issues. Dr. Aslanyan taught and researched at the University of Toronto and George Brown College and worked on international assignments for the World Bank and the WHO's Regional Office for Europe. Dr. Aslanyan is a full Fellow of and currently the Examiner for the specialty of Dental Public Health with the Royal College of Dentists of Canada.



Hernan Chaimovich (Brazil)

Chaimovich has a Bachelor's degree in biochemistry from the University of Chile (UCH), a Ph.D. from the University of São Paulo (USP) and a post-doctorate from the University of Harvard. He was the head of the Biochemistry Department, director of the Institute of Chemistry and Dean of Research at USP. He has been president of the Brazilian Society of Biochemistry and Molecular (SBBq), vice-president of the International Council for Science (ICSU) and president of the Inter-American Network of Academies of Sciences (IANAS). He is the vice-director of the Institute of Advanced Studies of USP and vice-president of the Brazilian Academy of Sciences (ABC). He is also the coordinator of the Research, Innovation and Dissemination Centers (CEPIDs) of the Research Support Foundation of the State of São Paulo (Fapesp).



Hyun-Ku Rhee (South Korea)

Dr. Hyun-Ku Rhee is a Professor Emeritus of Chemical Engineering at Seoul National University, Korea. He earned his B.S. from Seoul National University in 1962 and Ph.D. from the University of Minnesota in 1968 both in chemical engineering. After his service on the Faculty of Chemical Engineering, University of Minnesota, he returned to his alma mater, Seoul National University, in 1973 to be on the Faculty of Chemical Engineering until he retired in 2004. During this period he served as the Provost of his University, the President of the Institute of Control, Robotics and Systems, Korea and the President of the Korean Institute of Chemical Engineers. Dr. Rhee was elected to serve as the President of Korean Academy of Science and Technology and the Chairman of the Board of KAST. He is a Fellow Emeritus of the KAST and an Honorary Member of the National Academy of Engineering, Korea. During the past Government of Korea he served as the Special Advisor to the President for Science and Technology. His research interest covers applied mathematics, theory of chromatography, reaction engineering and catalysis, polymer reaction engineering and process control. He has made world renowned contributions to the theory of multicomponent chromatography, identification and nonlinear model predictive control of chemical processes, synthesis of silica-supported dendritic chiral catalysts and dendrimer-templated bimetallic nanoparticles. He has received a number of awards including the Certificate of Outstanding Merit from the University of Minnesota and the National Academy of Sciences Award, Korea.



Jacob Palis (Brazil)

Jacob Palis has been working at the National Institute for Pure and Applied Mathematics (IMPA) since 1968, after obtaining his PhD in Mathematics at Univ. of California, Berkeley, in 1967. He has been the PhD thesis adviser to 41 students and his PhD decedents amounts to more than 190, a number of them being outstanding mathematicians at world level. He has been awarded national and international prizes such as Prêmio Moinho Santista (1976), TWAS Prize in Mathematic (1988), Brazilian National Prize in S&T (1990), Inter American Prize for Science (1995), Mexico Prize for S&T (2001), Trieste Science Prize (2006), International Prize Accademia Nazionale dei Lincei (2008), Balzan Prize in Mathematics (2010), and Solomon Lefschetz Medal (2013). Among the distinctions he has received, there are the Grand-Croix Brazilian Order of Scientific Merit (1994) and the French Legion d'Honneur (2005), as well as a significant number of honorary doctorates from several universities, both from Brazil and abroad. Palis was the Co-Chair of the first Inter Academy Council Global Study "Inventing a Better Future", dating January 2004, dedicated to promote scientific competence at world level. He is a member of sixteen Academies of Sciences: Brazilian (1970), TWAS (1991), Latin America (1992), Indian (1996), Chilean (1997), Mexican (2000), US National (2001), French (2002), European (2004), Norwegian (2005), Russian (2006), Indian National (2008), Leopoldina (2010), Nazionale dei Lincei (2010), Lisbon (2011) and Chinese (2013). He was IMPA's Director from 1993-2003. Also Secretary and President of the International Mathematical Union (IMU), in the periods 1991-1999 and 1999 - 2002. He was the Secretary and subsequently President of TWAS, in the periods 2001-2006 and 2007-2012 and President of the Brazilian Academy of Sciences since 2007.



Janaína Miranda (Brazil)

Janaína Miranda has a Bachelor's degree in Geology from the Federal University of Minas Gerais (UFMG). She is a researcher at the Mineral Resources Research Company (Companhia de Pesquisa de Recursos Minerais - CPRM) and is currently enrolled in a Geosciences master's program at the Federal University of Amazonas. Her area of expertise is Geosciences, with emphasis in Hydrogeology.



Jeffrey Sachs (United States)

Jeffrey D. Sachs is the Director of The Earth Institute, Quetelet Professor of Sustainable Development, and Professor of Health Policy and Management at Columbia University. He is Special Advisor to United Nations Secretary-General Ban Ki-moon on the Millennium Development Goals, having held the same position under former UN Secretary-General Kofi Annan. He is Director of the UN Sustainable Development Solutions Network. He is co-founder and Chief Strategist of Millennium Promise Alliance, and is director of the Millennium Villages Project. Sachs is also one of the Secretary-General's MDG Advocates, and a Commissioner of the ITU/UNESCO Broadband Commission for Development. He has authored three New York Times bestsellers in the past seven years: *The End of Poverty* (2005), *Common Wealth: Economics for a Crowded Planet* (2008), and *The Price of Civilization* (2011). His most recent book is *To Move the World: JFK's Quest for Peace* (2013). Professor Sachs is widely considered to be one of the world's leading experts on economic development and the fight against poverty. His work on ending poverty, promoting economic growth, fighting hunger and disease, and promoting sustainable environmental practices, has taken him to more than 125 countries with more than 90 percent of the world's population. For more than a quarter century he has advised dozens of heads of state and governments on economic strategy, in the Americas, Europe, Asia, Africa, and the Middle East. Sachs is the recipient of many awards and honors, including membership in the Institute of Medicine, the American Academy of Arts and Sciences, Harvard Society of Fellows, and the Fellows of the World Econometric Society. He has received more than 20 honorary degrees, and many awards and honors around the world. Prior to joining Columbia, Sachs spent over twenty years at Harvard University, most recently as Director of the Center for International Development and the Galen L. Stone Professor of International Trade. A native of Detroit, Michigan, Sachs received his B.A., M.A., and Ph.D. degrees at Harvard.



Jere Behrman (United States)

Professor Behrman is also a Research Associate at Penn's Population Studies Center and he serves as the Economics/Social Science member of the National Institutes of Health (NIH)/National Institute of Child Health and Development (NICHD) National Advisory Council. He is a leading international researcher in empirical microeconomics, with emphasis on developing economies. His research interests include empirical microeconomics, labor economics, human resources, project evaluation, economic demography, incentive systems and household behaviors. The unifying dimension of much of this research is to improve empirical knowledge of the determinants of and the impacts of human resources given unobserved factors such as innate health and ability, the functioning of various institutions such as households and imperfect markets, and information imperfections. He has been a researcher with the World Bank, Asian Development Bank, Inter-American Development Bank, United Nations Development Program, other international organizations and various governments. He has been a principal investigator on over seventy research projects funded by the U.S. National Institutes of Health (twenty-three grants), U.S. National Science Foundation (thirteen grants), and a number of other governmental and foundation sources. He has been involved in professional research or lecturing in over forty countries. He has received honors including: Fulbright 40th Anniversary Distinguished Fellow, Econometric Society Fellow, Guggenheim Foundation Fellow, Ford Foundation Fellow and 2008 biennial Carlos Diaz-Alejandro Prize for outstanding research contributions to Latin America. In December 2011 he was awarded a Doctor Honoris Causa by the University of Chile.



Joachim Schiemann (Germany)

Prof. Dr. Joachim Schiemann, Ph.D., is director of the Institute for Biosafety in Plant Biotechnology at Julius Kuehn Institute (JKI), Federal Research Centre for Cultivated Plants. Since 2006 he is Honorary Professor at University of Lüneburg. Prof. Schiemann received a Ph.D. in Biochemistry from Martin-Luther-University Halle in 1977. From 1976 to 1991 he worked as senior scientist at the Institute for Plant Biochemistry Halle and the Central Institute for Genetics and Crop Plants Research Gatersleben. From 1991 to 2007 he was senior scientist at the Institute for Plant Virology, Microbiology and Biosafety, Federal Biological Research Centre for Agriculture and Forestry (BBA) and head of the Genetechnology and Biosafety Division. He has been coordinating several national and EU-funded cluster projects on biosafety research. From 2000 to 2003 he was member of the Scientific Committee on Plants of the European Commission, Health & Consumer Protection Directorate-General, and from 2003 to 2009 member of the Panel on Genetically Modified Organisms of the European Food Safety Authority (EFSA). From 2002 to 2012 he was member of the Executive Committee of the International Society for Biosafety Research (ISBR), from 2004 to 2008 President of ISBR. Since 2004 Prof. Schiemann has been member of the Steering Council of the European Technology Platform "Plants for the Future". Actually, he coordinates the EU-funded project GRACE (GMO Risk Assessment and Communication of Evidence).



Julian May (South Africa)

Professor Julian May obtained his doctoral degree in Development Studies University of the KwaZulu-Natal. He is a Research Associate at the Brooks World Poverty Institute, the International Food Policy Research Institute, the Department of Social Policy, Oxford University and the South African Labour and Development Research Unit, University of Cape Town. Between 1994 and 1998, Prof. May led the Poverty and Inequality Report, the first review of South Africa's poverty reduction policies in the post-apartheid era. Internationally, he has worked on an evaluation of the World Bank's social fund program in Jamaica, Nicaragua, Zambia and Malawi, bio-diversity studies in Mozambique and Namibia, poverty reduction strategy in Lesotho, Zambia and Uganda, and on monitoring and evaluation in Mauritius, Maldives, Namibia, Swaziland and Zimbabwe. He was the principal researcher for the KwaZulu-Natal Income Dynamics Survey (KIDS), a ten year panel study of poverty dynamics. With the support of funding received from the Economic and Social Research Council (ESRC) and the European Union, these data are being further analyzed in a project being conducted with the London School of Hygiene and Tropical Medicine (LSHTM) and the University of Cape Town.



Katherine Vammen (Nicaragua)

Katherine Vammen (PhD in Biochemistry and Microbiology of Water Resources from the University of Salzburg, Austria) is presently of the Nicaraguan Research Center for Water Resources of the National Autonomous University of Nicaragua. She is the founder and coordinator of the Regional Central American Master's Program, "Science of Water", which has been accredited as a Central American Postgraduate Program and has contributed to the postgraduate formation of 37 students from Nicaragua and Central America in 4 cycles of the program since 2001. She represents Nicaragua in the Interamerican Network of Academies of Science - Water Program since its inception in 2004. She was coordinator of the chapter on Water Resources in Nicaragua in the last publication of IANAS in 2012, Diagnosis of Water in the Americas. She is now Coeditor and coordinator of the new IANAS book, Urban Waters of the Americas to be published in 2015 which was also presented in the IANAS Focal Points – Programme of Water - meeting in Panama in October of 2014. Recently published papers include such topics as "Water Resources and Climate Change in Nicaragua" for CEPAL, "Water for the Americas: Challenges and Opportunities-Supply and Sanitation: How are the Unserved to be Served- Serving the Rural Unserved" for the Rosenberg International Forum on Water Policy. She has also made a contribution to the book in preparation from IANAS, Program of Energy, Guide Toward a Sustainable Energy Future for the Americas with a subchapter, the "Link between Water and Energy".



Lai-Meng Looi (Malaysia)

Academician Professor Datuk Dr. Lai-Meng Looi, (MBBS, MD, FRCPath, FRCPA, FAMM, FAMS, FASc) is Senior Professor of Pathology at the University of Malaya (UM) and Senior Consultant Histopathologist to its Medical Centre. Schooled in Malaysia, she received her basic medical training at the University of Singapore, and specialist training (Anatomical Pathology) at UM, the Royal Postgraduate Medical School (UK) and the Brigham and Woman's Hospital, Boston, USA. She assumed the Chair of Pathology, UM at the age of 36 years, and during her long academic career has served as Head of Department, Deputy Dean (Postgraduate Programmes), Member of Senate, Chairman of the Medical Centre Research Committee, Chairman of the Medical Ethics Committee (Institutional Review Board), and representative to the Malaysian Medical Council. She is a member of several professional bodies both at national and international levels. At the national level, she is the Founding President of the Malaysian College of Pathologists, Foundation Fellow of Academy of Sciences Malaysia (ASM) and Chief Censor of the Academy of Medicine Malaysia. She was instrumental in the development of several National guidelines on pathology and laboratory practices, establishment of the National Accreditation Scheme for Medical Testing Laboratories for Malaysia based on ISO 15189, and the Pathology Act for legislation of Pathology laboratories. She is President of the World Association of Societies of Pathology and Laboratory Medicine, and serves on the Committees on Education for Countries in Need, and on Professional ethics in Pathology and Laboratory Medicine. She is a technical advisor to the World Health Organization. Professor Looi has been ASM's representative in IAMP since 2000. She chaired the organizing committee for the IAMP Scientific Meeting and 3rd General Assembly with the theme "Global Collaboration for Local Health Action" held in 2010 in Kuala Lumpur, Malaysia. She is current Co-Chair of IAMP, representing the low and middle income countries. She has been honored as Senior Fellow (Academician) of the Academy of Sciences Malaysia (2005), and recipient of the National Science Award (1999), the ASEAN Outstanding Scientist and Technologist Award (2001), Rotary Research Foundation Gold Medal 2003, UM Inaugural Chancellor's Award for Excellence in Research (2008) and Malaysia's inaugural National Distinguished Professor in 2010. For her contributions to education and medical science, the King of Malaysia has conferred her the Johan Setia Mahkota (JSM) in 2000 and Panglima Jasa Negara (PJN) with the title "Datuk" in 2011.



Linxiu Zhang (China)

Professor Linxiu Zhang is Deputy Director of the Centre for Chinese Agricultural Policy (CCAP) of the Chinese Academy of Sciences (CAS). Most of her research concentrates on policy relevant studies on rural development in China, including growth, poverty and inequality, gender, and household nutrition. She is also interested in integrated resource management at the community level, public goods investments, rural basic education and the New Cooperative Medical System (NCMS). She has published widely both in domestic and international professional journals. She holds a Ph.D. in Agricultural Economics from the University of Reading, England, an MSc in Agricultural Economics, from the Graduate School of the University of the Philippines at Los Banos, the Philippines, and a BSc in Agricultural Economics and Management, Nanjing Agricultural University, Nanjing, China.



Marcello Barcinski (Brazil)

He has a degree in Medicine from the State University of Rio de Janeiro (UERJ) and a PhD in Biological Sciences (Biophysics) from the Federal University of Rio de Janeiro (UFRJ). He is a professor at the University of São Paulo (USP) and has been loaned by USP to the Ministry of Health. He created the National Cancer Institute (Inca), the Division of Experimental Medicine and the Postgraduate degree in Oncology. He has experience in the field of biophysics and immunology, especially in cellular immunology. He works mainly in the fields of immunoparasitology and translational medicine, with emphasis on the effects of programmed cell death by apoptosis.



Marcus Vinícius Guimarães de Lacerda (Brazil)

He has a degree in medicine from the University of Brasilia (UNB), with a residency in infectious diseases held at the Tropical Medicine Foundation "Dr. Heitor Vieira Dourado", (FMT-HVD) and a PhD in tropical medicine from UNB in partnership with the University of New York, USA. He is a researcher in the field of malaria at the FMT-HVD and a Professor of Infectious and parasitic diseases at the Amazonas State University (UEA). He coordinates the International Center of Clinical Research in Malaria (CIPCLiM) in Manaus, and currently holds the position of director of education and research at FMT-HVD. He is a member of the Technical Advisory Committee of the National Malaria Control Program and of the Subcommittee on Malaria Therapy, of the Ministry of Health of Brazil. He is an Affiliate Member of the Brazilian Academy of Sciences (ABC).



Michael Clegg (United States)

Michael Clegg is Co-Chair of the Inter American Network of Academies of Science (IANAS) and Vice President (External) of the International Council for Science (ICSU). He served 12 years as the Foreign Secretary of the US National Academy of Sciences. He has written a number of articles on the role of science academies as sources of evidence based policy advice and he has worked to strengthen academies in Africa and the Americas. Most recently Clegg served as Donald Bren Professor of Biological Sciences at the University of California, Irvine where he is now Professor Emeritus. Clegg's research specialties include plant and agricultural genetics, population genetics and molecular evolution. He has published over 175 research articles and co-authored or edited nine books over a 42-year academic career. He has been a Member of the US National Academy of Sciences for 25 years. He is also a Fellow of the American Academy of Arts and Sciences, a member of the American Philosophical Society and a corresponding Member of several academies in Latin America and Africa.



Olu Ajakaiye (Nigeria)

Professor Olu Ajakaiye is currently Executive Chairman, African Centre for Shared Development Capacity Building (ACSDCB), Ibadan – a research and training Centre for Shared Development Policy, Planning, Implementation and Impact/Outcome Assessment in Africa. He is also President, Nigeria Economic Society beginning in September, 2013 and Honourary Special Adviser to the President on the Economy/Member National Economic Management Team. Prior to this, he was Director of Research at the African Economic Research Consortium (AERC) Nairobi (2004-2011) and Director-General, Nigerian Institute of Social and Economic Research (NISER), Ibadan (1999-2004). Olu Ajakaiye obtained his B.Sc. Econs from University of Ibadan, Nigeria and PhD Economics from Boston University, USA. He was a John Holt Scholar at the University of Ibadan, a NISER Scholar at the Boston University and recipient

of IDRC Thesis Grant in 1982. In 1993 he was a visiting researcher at Université Laval under the AERC institutional attachment programme. He was Vice President for Africa, Intergovernmental Council of Management of Social Transformations (MOST) of UNESCO (2000–2004). Currently he coordinates the Green Economy Framework for Nigeria Under the Africa Adaptation Programme of UNDP and serves on Advisory Committee of the Centre for Globalization and Development, University of Gothenburg, Technical Advisory Group of the Natural Resource Charter, University of Oxford, and Advisory Board of WTO Chairs Programme, Deputy Chair, International Lawyers and Economics Against Poverty (ILEAP), Canada, Advisory Committee, AGRODEP, among others. He consults for several international organizations including The World Bank, UNECA, NEPAD Agency, UNDP, ECOWAS, IDRC, ACBF, JICA (UK) Bill and Melinda Gates Foundation and several government Ministries, Agencies and Departments in Nigeria.



Paulo Buss (Brazil)

Paulo M. Buss, MD, MPH, got an MD from the Federal University of Santa Maria (UFSM – RGS), a Specialization in Public Health from the National School of Public Health (ENSP-FIOCRUZ) and a Master in Social Medicine from the State university of Rio de Janeiro (UERJ). He has been a tenured researcher and Full Professor of the National School of Public Health at the Oswaldo Cruz Foundation since 1976. From 2001 to 2008 he was President of the Oswaldo Cruz Foundation, elected by his colleagues and appointed by the President of the Republic of Brazil. He is Full Member of the National Academy of Medicine of Brazil and Honorary Member of the National Academy of Medicine of Portugal. He was President of the Latin American and Caribbean Association of Public Health Education and of the International Federation for Cooperation among Health Systems and Services Research Centers. He founded and was the first Executive Secretary of the Brazilian Association of Collective Health (Abrasco). Dr. Buss was the Brazilian Representative at the WHO's Executive Board, President of the World Federation of Public Health Associations (WFPHA), Member of the Executive Board of the International Association of National Institutes of Public Health (IANPHI) and of the Global Forum for Health Research. He served as Chair of the Brazilian Commission on Social Determinants of Health, and was Member of the Committee on Transforming the Case for American Commitment to Global Health of The National Academies of USA Institute of Medicine (IOM). He is a regular consultant to the World Health Organization (WHO), the Pan American Health organization (PAHO), the National Institutes of Health (NIH/USA), the Pasteur Institute (France), the International Development Research Center (IDRC/Canada), Canal Futura (Brazilian Educational Cable TV), and numerous other universities and national and international entities. In 2002 he was granted with the Medical Merit Honour, the highest health award in Brazil, and in 2007 with the Rio Branco Merit Honour by relevant services provided to the Brazilian foreign affairs, both conferred by the President of the Republic. In 2006 he received the 2006 Hugh R. Leavell Lectureship Award from the World Federation of Public Health Associations, and in 2009 the Canadian Public Health Association (CPHA) 2009 International Award. Since 2009 he has coordinated the Fiocruz Global Health Center, an organ linked to the Presidency of Fiocruz. He provide political and technical advise to the President of Fiocruz and support to the Ministry of Health, Ministry of Foreign Relations, and other institutions on the matters related to international health and health diplomacy.



Sandra Patricia Zanotto (Brazil)

Sandra Zanotto is associated professor since 2003, working in the Graduate Program at the State University of Amazonas (UEA) and since 2010 part of the Amazon Biodiversity Network and Biotechnology - Rede Bionorte. Zanotto is currently a visiting professor at the Federal University of Amazonas where she is in charge of the project "Innovation Management for a Sustainable Use of Amazon Biodiversity" sponsored by FAPEAM. She also participated in the documentary production "The Knowledge we Know" a dialog between Traditional and scientific Knowledge in the Amazon, presented at the Eighth Meeting of the Conference of the Parties to the Convention on Biological Diversity - COP 8, in the programming of the Brazilian Day, Brazil. Worked in the "Young Amazonian Scientist - JCA" projects, developed on Indigenous area Marajá, medium Solimões River, at the Mayoruna ethnicity. Recently she coordinated the Subproject about quality of aquatic environments developed in the Cites of Parintins, Itacoatiara and Manacapuru all in the Amazonas State, from CAPES Program: Investing in New Talents of the Net of Public Education for Social Inclusion and Development of the Scientific Culture. Nowadays she is involved in the supervision of grad and undergrad students.



Tilak Raj Sharma (India)

Dr. T. R. Sharma joined as the Project Director of the National Research Centre on Plant Biotechnology (NRCPB), Pusa Campus, New Delhi which is a National Institute of the Indian Council of Agricultural Research (ICAR) on April 2016 and is responsible for providing overall direction and coordination of the Research and Development, Academic and other policy issues related to Agricultural Biotechnology in the National Agricultural Research System of India. Prior to this position, he completed his first Post Doctorate from University of Alberta Canada (1994-96) and worked on molecular biology of plant and plant pathogens. Subsequently he did two more Post doctorate trainings (2001 and 2004) on Rice genome sequencing, genome sequence finishing and genome analysis from the Cold Spring Harbor Laboratory, New York, USA. He worked as Assistant Professor at the Biotechnology Centre on HPKV, Palampur w.e.f. 1991 to 1999 and then joined as Senior Scientist (Biotechnology) in June, 1999 at the National Research Centre on Plant Biotechnology (NRCPB), New Delhi (ICAR) and was working as Principal Scientists (Biotechnology) in 2007 to April 15, 2014. Dr. Sharma received University Gold Medal and Certificate of Honour in Ph.D, 1990, Young Scientist Award (Plant Protection) NAAS, 1998; ICAR Young Scientist Award (Crop Sciences), 1999; Prof. M.J. Narasimhan Academic Merit Award (special prize, jointly with student) IPS, 1999; Prof. Umakant Sinha Memorial Award in Biochemistry, Biophysics and Biotechnology, Indian Science Congress Association, 2001; International World Technology Award for Biotechnology (jointly to Int. Rice Genome Sequencing Team), The World Technology Network, 2003. DBT National Bioscience Award for Career Development, 2007. NAAS Recognition Award 2008; Rafi Ahmed Kidwai Award-ICAR, 2011, VASVIK Award in Agricultural Sciences - 2011, Mundkur Memorial Lecture Award 2012; NASI - Reliance Industries Platinum Jubilee Awards in Biological Sciences-2013, J C Bose National Fellowship of the Department of Science and Technology, Govt. of India, 2013. Dr. Sharma has been elected as the Fellow of the three National Academies like Indian National Science Academy, New Delhi (2013), National Academy of Agricultural Sciences (2007) and National Academy of Sciences, Allahabad (2008). During the past few years. Dr. Sharma has received funding for more than 22 Research Grants as Principal Investigator. He has published more than 100 Research papers on various aspects of Molecular Biology, Genomics and Plant Disease Resistance in different national and international journals.



Tim O'Riordan (United Kingdom)

Professor O'Riordan is Emeritus Professor of Environmental Sciences at the University of East Anglia. He received an OBE in 2010, is a Deputy Lieutenant of the County of Norfolk, served as Sheriff of Norwich (2009-10), and is a Fellow of the British Academy. He holds an MA in Geography from the University of Edinburgh, an MS in Water Resources Engineering from Cornell University, and a PhD in Geography from the University of Cambridge. He has edited a number of key books on the institutional aspects of global environmental change, policy and practice, led two international research projects on the transition to sustainability in the European Union (1995-2002) and edited two editions of the text book, *Environmental Science for Environmental Management*. Professor O'Riordan is European Advisor to the UK Sustainable Development Commission and a member of Sustainability East, the East of England Sustainable Development Round Table. His research deals with the themes associated with better governance for sustainability. He is also active in the evolution of sustainability science partnerships. His direct work relates to designing future coastlines in East Anglia in England so that they are ready for sea level rise and the creation of sound economies and societies for a sustainable future. He is a core member of the Prince of Wales' seminar on Business and the Environment. He has many contacts with the business world. He is an assessor for the Prince of Wales Accounting for Sustainability project. He sits on the Corporate Responsibility Body for Asda plc, and also on the Growth and Climate Change Panel for Anglian Water Group. Professor O'Riordan is also Executive Editor of *Environment Magazine*.

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Clarice de Oliveira Cudischevitch (Brazil)

Communications Assistant of the Brazilian Academy of Sciences (ABC). She holds a degree in journalism from the Federal University of Rio de Janeiro (UFRJ), with university extension through the Intensive Course in Applied Journalism of the O Estado de S. Paulo newspaper. She also attended the Training Program in Entrepreneurship and Innovation at the Recanati School of Business at Tel Aviv University. She has experience as a multimedia reporter of the Estadão.



Elisa Oswaldo Cruz Marinho (Brazil)

Head of the Communication Department of the Brazilian Academy of Sciences (ABC) since 2006, editor of the ABC website, of the ProfiCiência website (which provides information on scientific careers for young people) and of the ABC News, an institutional electronic means of dissemination. She did a specialization course in scientific dissemination at the Journalism Laboratory of the State University of Campinas (Labjor/Unicamp) and did her master's in Education, Dissemination and Management in Biosciences at the Department of Medical Biochemistry of the Federal University of Rio de Janeiro (UFRJ), where she is currently a doctoral student listener. Previous experience in visual communication and art education; she graduated from the Catholic University of Rio de Janeiro (PUC-Rio).



Larissa Marins (Brazil)

Audiovisual intern at the Brazilian Academy of Sciences (ABC). She is studying Media Studies at Federal Fluminense University (UFF). Experienced in photography and audiovisual. Co-founder of the Nó Produções, a company producer of audiovisual material. She has also held an internship at the Unitevê, university TV of UFF.



Marcos Cortesão Barnsley Scheuenstuhl (Brazil)

Marcos Cortesão Barnsley Scheuenstuhl is an economist graduated in 1988 from the State University of Rio de Janeiro. He obtained his Master's degree at the same university and later went to the Federal University of Rio de Janeiro to develop a PhD. For many years he worked at the State University of Rio de Janeiro, with his work focused on Higher Education Policies and Funding of Higher Education in Latin America. He also worked for the Inter-Union Department for Socioeconomic Studies and Statistics, where he developed studies on the Brazilian national financial system. Throughout his career he has dedicated much attention to institutional capacity building and networking. In 2000 he was invited to help organize the Office of International Affairs of the Brazilian Academy of Sciences. Within the Office he took responsibility over the Americas, playing a role in the structuring of the Inter-American Network of Academies of Sciences (IANAS), where he served as Executive Director since the establishment of the network until 2010. When in 2004 the Brazilian Academy of Sciences was designated lead Academy to the Water Programme of the InterAcademy Panel on International Issues (IAP), he was invited to act as Programme Director. For the last 10 years he has been working with networking of water researchers and managers, aiming at the enhancement of water management capacity in the developing world. Besides the work developed at the international scenario, within the structure of the Brazilian Academy of Sciences he also plays an active role in the coordination of several national programs and initiatives, most of these in the areas of Science Education, Health and Environmental Issues.



Vitor Vieira (Brazil)

Vitor Vieira holds a Bachelor's degree in International Relations from the Federal University of Rio de Janeiro (UFRJ). He was an intern at the Brazilian Academy of Sciences - ABC (2012-2014), where he worked in the areas of International Cooperation and Strategic Projects, nationwide. During his internship he was engaged in the organization of major international events, such as the General Conference and General Assembly of the Global Network of Science Academies – IAP (February, 2013) and the World Science Forum (November, 2013). In July, upon concluding his internship and graduating from UFRJ, Vitor was hired by the National Academy of Medicine of Brazil, where he currently works as Project Assistant.