



SPEAKERS PROFILE



Akica BAHRI, Tunisia

Since 2010, she coordinates the African Water Facility (AWF) at the African Development Bank, an initiative of the African Ministers' Council on Water. From 2005 to 2010, she was the director of the International Water Management Institute's (IWMI). She is an Engineer, with a degree from the National Polytechnic Institute of Toulouse, France, and a PhD from the Institute of Science and Technology at Lund University, Sweden. She has experience in water resources management, agricultural use of marginal waters, and on the impacts of sewage sludge on the environment. She received the 2009 "Prof. C.N.R. Rao Prize for Scientific Research, among others.



Asma ISMAIL, Malaysia

She is currently the adjunct Deputy Vice-Chancellor in Research and Innovation at the Universiti Sains in Malaysia, where she is also the Founding Director and Professor at the Institute for Research in Molecular Medicine. She obtained her PhD in the field of Cellular and Molecular Biology at the School of Medicine, University of Nevada, where she also got her bachelor's degree in biology, having received her MA in Microbiology from University of Indiana, all in the USA. Her research emphasis is in the scientific discovery of biomarkers and development of cheap and rapid diagnostics of infectious diseases especially typhoid and paratyphoid fever.



Carlos GADELHA, Brazil

He is an Economist with a PhD in Economics from the Institute of Economics of the Federal University of Rio de Janeiro (UFRJ). He served as Vice President of Production and Innovation in Health of the Oswaldo Cruz Foundation (Fiocruz), and currently he serves as Secretary of Science, Technology and Strategic Inputs of the Ministry of Health, as Coordinator-General of the Professional Master in Policy and Management of Science, Technology and Innovation in Health at the National School of Public Health of Fiocruz (ENSP) and as Coordinator of the Research Group on Industrial Complex and Innovation in Health (GIS). He also presides the Administrative Council of Hemobras. Beyond his leadership in the area of innovation in health, he also possesses experience in the field of industrial economy, especially science and technology policy, economic development, and industrial policy.



Carlos NOBRE, Brazil

Since 2011, he serves as Secretary for R&D Policy in the Ministry of Science, Technology & Innovation (MCTI). Currently he presides the Scientific Committee of the International Geosphere-Biosphere Program (IGBP), the Director Councils of the Brazilian Network of Researches on Climatic Changes (CLIMA Network) and the Brazilian Panel of Climatic Changes. He was one of the authors of the 4th Assessment Report of IPCC, and winner of the Peace Nobel Prize in 2007 together with Al Gore. He is a researcher of the National Institute of Space Research (INPE) since 1983. He graduated in Electronics Engineering from the Aeronautics Technological Institute (ITA), and has a PhD in Meteorology from the Massachusetts Institute of Technology (MIT). He is experienced in meteorology, climatology and climate modeling. He is also a member of the Brazilian Academy of Science (ABC) and of the Academy of Sciences for the Developing Nations (TWAS).



Carolina VERA, Argentina

She is the Director of the Center for Atmosphere and Ocean Sciences (CIMA), in Argentina, a joint institute between the University of Buenos Aires (UBA), the National Council of Sciences (CONICET) from Argentina and the National Council of Scientific Research (CNRS) from France. She is also a Full Professor of the School of Exact and Natural Sciences of UBA, where she obtained her Ph.D. in atmospheric sciences. Currently she is an Officer Member of the World Climate Research Program (WCRP). She was the lead author of the IPCC Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation"



David FERGUSON, USA

Since 2009, he is the Deputy Director of the Science and Technology office of the United States Agency of International Development (USAID), with a specific emphasis on applied research and challenges models for development. He worked in this field as an independent consultant for the private sector. He also worked for seven years in Hong Kong for AT&T, focused on telecommunications investment opportunities for the developing markets of China, India, and Indonesia. He has experience in information technology, economic growth through private sector engagement, and government technology and telecommunications policy and regulation.



Doulaye KONE, USA

He is the Senior Program Officer, on the Water, Sanitation & Hygiene Program (Global Development) at the Bill & Melinda Gates Foundation. He holds a Ph.D. and Masters degree in sanitary and environmental engineering, having previously obtained a MSc. and BSc in Physics and Chemistry. He also has a certificate in environmental communication. He has more than 15 years experience as water and sanitation specialist in developing countries. He coordinated several programs of international cooperation in research and in capacity building within the African Water Association (AfWA).



Eilon ADAR, Israel

He is the director of the Zucker Institute of Aquatic Researches of the Ben-Gurion de Negen University, in Israel. He has a Ph.D. in hydrology from the University of Arizona (USA). He got his bachelor's degree in geology, physical geography and climatology from the Hebreia University of Jerusalem, where he also got his masters in hydrology. His main research activities are related to the quantitative assessment of groundwater flow systems and sources of recharge in complex arid basins with puzzling geology and scarce hydrological information.



Javier Garcia MARTINEZ, Spain

Javier Garcia-Martinez is the Director of the Molecular Nanotechnology Lab at the University of Alicante, Spain. Javier is Fellow of the Royal Society of Chemistry, and a member of the Global Young Academy (GYA) and of the World Economic Forum Council on Emerging Technologies. He is a co-founder of the Rive Technology Inc. in Boston, a VC-funded MIT spin-off, commercializing advanced nanomaterials for energy applications. He has received numerous international awards in the area of Chemistry, and is a member of the Board of Directors of the International Union of Pure and Applied Chemistry (IUPAC).



Josephine M. HILL, Canada

She is a Professor of the Department of Chemical and Petroleum Engineering at the Schulich School of Engineering at the University of Calgary, in Canada. She completed her bachelor's and master's degree at the University of Waterloo, also in Canada, and her Ph.D. at the University of Wisconsin–Madison, in the US, having earned several important prizes in the area of innovation in chemistry. She has worked with many companies and serves on the Executive of the Canadian Catalysis Division of the Chemical Institute of Canada (CIC) a National Entity that encompasses the Canadian Society of Chemical Engineering, and the Canadian Society for Chemical Technology.



Juan Pedro LACLETTE, Mexico

He is the vice-president of the Institute of Biomedical Research of the National University of Mexico (UNAM) where he obtained his PhD. He got his postdoctoral degree from Harvard University, in the United States, focused on human parasite diseases. He is a member of the National Academy of Medicine (Mexico) and the Vice-president (2004-2006) and Past President (2006-2008) of the Inter American Network of Academies of Sciences (IANAS). He was also the president of the Academy of Science of Mexico.



Julie MAKANI, Tanzania

She is a Wellcome Trust Research Fellow - a fund established to manage the North American Henry Welcomes' fortune, which became the second largest world fund for medical research. She is a doctor who graduated from Tanzania, she did her post graduate training in the United Kingdom, with a Ph.D. acquiring critical clinical-epidemiological skills. She is a Senior lecturer in the Department of Hematology and Blood Transfusion at Muhimbili University, the main clinical, academic and research centre in Tanzania. She is a Member of the Royal College of Physician, in the United Kingdom and a research fellow of Oxford University. In 2009 she was awarded the Archbishop Desmond Tutu Leadership Fellowship for promoting excellence in biomedical science in Africa. In 2011 she received the Royal Society Pfizer Award.



Kiyoshi KUROKAWA, Japan

He is a doctor, who graduated from the University of Tokyo, and today is the Dean of the Medical School at Tokai University, in Japan. He is a member of the Institute of Medicine of the National Academies of Sciences of USA. He was the Chairman of the National Diet of Japan Fukushima Nuclear Accident Independent Investigation Commission, President of Science Council of Japan and Science Advisor to the Prime Minister of Japan and of Malaysia. He is a member of the National Academies of Sciences of USA, among others. He has been awarded several prizes for his leadership in the area of scientific liberty and responsibility.



Lingxu ZHANG, China

He is a doctor, who graduated from the University of Tokyo, and today is the Dean of the Medical School at Tokai University, in Japan. He is a member of the Institute of Medicine of the National Academies of Sciences of USA. He was the Chairman of the National Diet of Japan Fukushima Nuclear Accident Independent Investigation Commission, President of Science Council of Japan and Science Advisor to the Prime Minister of Japan and of Malaysia. He is a member of the National Academies of Sciences of USA, among others. He has been awarded several prizes for his leadership in the area of scientific liberty and responsibility.



Maggie Koerth BAKER, EUA

She is a columnist for The New York Times Magazine and the science editor at BoingBoing.net, one of the most widely read blogs in the United States. As a member of the board for the Council for the Advancement of Science Writing, her work has appeared in a wide variety of magazines and websites, including Scientific American, National Geographic News, and Popular Science



Nitsara KAROONUTHAISIRI, Thailand

Having graduated in Thailand, she won the prestigious Royal Thai Government Scholarship to pursue her education in chemical engineering in the USA. She got her B.S. from Columbia University and then her M.S. and Ph.D. from Stanford University. Currently, she is the head of the Microarray Laboratory of the National Center of Biotechnology and Genetic Engineering of Thailand (BIOTEC). She was the founding co-chair of the Global Young Academy (GYA). She was awarded the Women in Science fellowship from UNESCO-L'Oreal in 2009 and in 2011 the Outstanding Young Technologist, among others.



Patricia GARCIA, Peru

She is a graduate of the medical school in Peru, and trained in internal medicine, infectious diseases, and public health at the University of Washington, in the United States. Currently she is a Professor of the Department of Global Health, at University of Washington and at the School of Public Health at Tulane University, both in the United States. She is the Dean of the School of Public Health at Cayetano Heredia University in Peru. She was also the former Chief of the Peruvian National Institute of Health, and has recently been elected the Latin American Regional Director Against Sexually Transmitted Diseases. She is recognized for her leadership in international Global Health.



Petra Skiebe CORRETE, Germany

With a PhD in Neurobiology, she is the director of NatLab, an informal scientific lab of the Freie University in Berlin, that offers High school students the opportunity of performing state of the art experiments, elaborated by biologists and chemists. She also created a network of informal science laboratories in Berlin and Brandenburg ("GenaU"). Being the German representative in the POLLEN program of the European Community (www.pollen-europa.net) in 2004, she promoted a partnership between the Freie University of Berlin and the Science and Humanities Academy Berlin-Brandenburg in 2007, aiming at expanding the program to long-term, which then resulted in the "TuWas!" Program (Technik und Naturwissenschaften an Schulen, Technology and Science in Schools).



Peter SINGER, Canada

He is the Chief Executive Officer of Grand Challenges Canada, a Canadian program that supports projects of great impact to global health. Currently he runs the Sandra Rotman Centre of the University of Toronto, where he is also a Professor of Medicine. He is a member of the Board of Directors of the Canadian Academy of Health Sciences, a Fellow of the Royal Society of Canada, and of the Academy of Sciences for the Developing World (TWAS), among others. He worked as a consultant for the Bill & Melinda Gates Foundation, in addition to several private entities and African governments. He has dedicated the last ten years towards integrating science and innovation to improve the health of people in developing countries, being well-known around the world for his creative solutions to some of the most pressing global health problems



Philip CAMPBELL, England

With a post doctorate in atmospheric physics, a master's degree in astrophysics and a bachelor's degree in aeronautical engineering, he is currently the chief-editor of the magazine and of the editorial group Nature. Previously he had been the Physical Sciences Editor of Nature magazine in addition to the founding editor of the international magazine of the Institute of Physics of the United Kingdom, the Physics World.



Ricardo PAES DE BARROS, Brazil

He graduated in Electronics Engineering from the Aeronautics Technological Institute (ITA), finished his masters in statistics, from the Institute of Pure and Applied Mathematics (IMPA), and got his doctorate in Economy from the University of Chicago, where he also completed his post doctoral degree. He then did a second post doctorate degree at the Center of Economic Growth, of Yale University. Since 1979, he has worked as a researcher of the Institute of Applied Economic Research, where he was also the director of Social Studies. His researches are focused on social inequalities, education, poverty and the job market in Brazil and in Latin America. He has been awarded prestigious national and international prizes, including the *Commendation of the National Order of Scientific Merit from the Government of Brazil*. He is also a Member of the *Brazilian Academy of Science*.



Ricardo RAPALLO, Spain

He is an Agricultural Engineer who graduated from the Universidad Politécnica de Madrid and is the Coordinator of the Hunger-Free Latin American and the Caribbean Initiative Support Project of the Food and Agriculture Organization of the United Nations (FAO). He worked on projects focused on food security and rural development in Latin American and the European Union. He joined FAO in 2004 as consultant in Guatemala. Currently he manages the department of Food Security in the Management of Agricultural Development Economics Division, in Rome.



Robin Michael CREWE, South Africa

He is the Vice-Principal of the University of Pretoria, the former President of the Academy of Science of South Africa and President of the Network of African Science Academies (NASAC). He got his PhD at the University of Georgia, in the United States, and his Masters and Bachelors degree from the University of Natal in Pietermaritzburg, in South Africa. His research interests are in Behavioral ecology, social behavior, chemical ecology, and the social organization in honey bees. He is a Fellow of the Royal Entomological Society of London, a Fellow of the Royal Society of South Africa and a Fellow of the Academy of Science of the Developing World (TWAS), among others. He was awarded the title of *Knight of the National Order of Merit of France*.



Sabah ALMOMIN, Kuwait

She is a researcher in Biotechnology at the Kuwait Institute for Scientific Research (KISR). She has a post graduate degree in engineering and molecular biology from the University of Surrey, in the United Kingdom, specialized in Animal Embryo Transfer and Manipulation. She is a Fellow of the Academy of Science of the Developing World as well as of the International Council of Life Sciences, which promotes biosafety and biosecurity in the middle east and north of Africa. She is the founder of the National Commission of Biosafety of Kuwait and is her country's representative in the International Center Of Biotechnology and Genetic Engineering (ICGEB), a centre of excellence in research projects focused on benefiting countries under development, run by the United Nations for Industrial Development (UNIDO).



Shelley PEERS, Australia

She is the Director of the primary school program "Primary Connections: linking science with literacy" of the Australian Academy of Science, which won The Australian Awards for Excellence in Educational Publishing. She is a Fellow of the International Society for Design and Development in Education (ISDDE) and was awarded several national and international prizes, among them the 2012 Purkwa Laureate, a Grand Prize of the French Academy of Sciences.



Sherien ELAGROUDY, Egypt

She is a Professor of Environmental Engineering at Ain Shams University, in Cairo, Egypt. She has a PhD from Ryerson University, where she won the National Graduate Student Paper Award from the Canadian Geotechnical Society. She is a member of the Egyptian Young Academy of Sciences as well of the Young Global Academy. She was awarded the Young Scientist prize at the World Economic Forum 2012.



Shoji KOMAI, Japan

He is a Professor at the Nara Institute of Science and Technology (NAIST), in Ikoma, Japan, where he obtained his PhD and his master's degree in biological sciences, following his bachelor's degree in psychology from Sophia University in Tokyo. He is the chair of the national young academy committee of Science Council of Japan. His research is focused on the information processing in the brain and the minimum local circuit where particular information is found. He also studies the differences among brains, e.g. sex differences, diseases, sensory modalities, using neuronal and behavioral imaging.....



Steven BUCHSBAUM, USA

He is currently a Deputy Director for the Discovery and Translational Sciences team at the Bill & Melinda Gates Foundation in the United States. He got his PhD in Physics, after completing his Masters degree in International Affairs at the University of California, San Diego, in the United States. He served in the U.S. State Department as the Science and Technology Officer for South Asia as a Program Manager in the Defense Advanced Research Projects Agency. He is a Science and Diplomacy Fellow at the American Association for the Advancement of Science (AAAS).



Volker ter MEULEN, Germany

He is a doctor who graduated in Germany, with a post doctorate in virology, at the Children's Hospital of Philadelphia, in the United States. . On returning to Germany he specialized in pediatrics. He worked as a Visiting Scientist at the Wistar Institute for Anatomy and Biology in Philadelphia and at the Viral and Rickettsial Disease Laboratory in Berkeley. He was the President of the Leopoldina Academy of Sciences, in Germany, and of the European Academies Science Advisory Council.



Woo Hoon Park, South Korea

Member of the Korean Academy of Science and Technology