

Biographies of Moderator and Speakers

William Hooke, PhD, is Director of the Atmospheric Policy Program and Senior Policy Fellow at the American Meteorological Society. Between 1993 and 2000, he held two national responsibilities: Director of the U.S. Weather Research Program Office, and Chair of the interagency Subcommittee for Natural Disaster Reduction of the National Science and Technology Council Committee on Environment and Natural Resources. Currently, he serves a chair of the Disasters Roundtable (DR). Before joining the staff of the AMS, he served as Deputy Chief Scientist and Acting Chief Scientist of National Oceanic and Atmospheric Administration (NOAA).

Brigadier General John (Jack) J. Kelly, Jr. USAF (Ret.) serves as the Deputy Undersecretary of Commerce for Oceans and Atmosphere, National Oceanic and Atmospheric Administration (NOAA). He is responsible for the day-to-day management of NOAA's domestic and international operations. In addition, General Kelly is the United States principal representative with the World Meteorology Organization (WMO) and is responsible for U.S. interactions with the WMO.

General Kelly has 39 years of experience in all facets of the weather field, including 21 years at the senior executive level in both government and private industry. He has broad experience in leading science-based service organizations, introducing change, and using and implementing technology and science.

General Kelly served as senior advisor on weather services for the Department of Commerce and conducted a bottom-up review of the NOAA National Weather Service (NWS) operation, plus NOAA and NWS management, planning, and budget policies and processes. He was NOAA's assistant administrator for the Weather Service from 1998 to January 2004. In the private sector, General Kelly was director of Weather Systems for GTE Information Systems from 1994 to 1996. There he directed GTE's weather and aviation services business line and was responsible for client satisfaction and interface, strategic planning, business development and sales, profit and loss, and program management.

General Kelly retired from the Air Force in 1994 after serving for 31 years. His duties covered the entire spectrum of the weather field, from operational forecaster to chief scientist, to staff officer. He retired as director of Weather Headquarters, U.S. Air Force. General Kelly holds a bachelor's degree in chemistry from Seton Hall University and a master's degree in public administration from Auburn University. He also completed leadership programs at the Air Force Command and Staff College and the Industrial College of Armed Forces. General Kelly is an American Meteorological Society Fellow and has received numerous U.S. and international awards.

Dr John Zillman is a Professorial Fellow in the School of Earth Sciences of the University of Melbourne and Chairman of the University's Community and Industry Advisory Board for Environmental Programs. He also serves on the Council of Monash University and is Chair of the Board of the ANU (Australian National University)-based Australian Partnership for Advanced Computing (APAC).

Dr Zillman was educated at Queensland University, the University of Melbourne and the University of Wisconsin. He was an officer of the Australian Bureau of Meteorology for 48 years from 1957 to 2005 and, for more than half of that time, 1978-2003, was Director of the Bureau and Permanent Representative of Australia with the World Meteorological Organization (WMO). He was a member of the WMO Executive Council for 25 years, serving as First Vice President 1987-95 and President of WMO from 1995-2003.

He has chaired many WMO and other expert bodies and panels, including the Executive Council Working Group on Long-term Planning 1983-95, the Advisory Group on the Role and Operation of National Meteorological and Hydrological Services and the Panel of Experts on Education and Training 1995-2003. He served as Principal Delegate of Australia to the WMO-UNEP (United National Environment Programme) Intergovernmental Panel on Climate Change (IPCC) from 1994 to 2004 and as a member of the IPCC Bureau. He led the Australian Delegation to the 1999 Budapest World Conference on Science and to the first (2003), second (2004) and third (2005) Ministerial Earth Observation Summits. He has been Chairman of the WMO-UNEP-IOC (Intergovernmental Oceanographic Commission)-ICSU (International Council for Science) Steering Committee for the Global Climate Observing System (GCOS) since January 2006.

Dr Zillman was elected a Fellow of the Australian Academy of Technological Sciences and Engineering (ATSE) in 1980 and, by special election, as a Fellow of the Australian Academy of Science (AAS) in 2006. He served as Vice President of ATSE 1995-98 and as President 2003-06. For calendar year 2005, he served also as President of the International Council of Academies of Engineering and Technological Sciences (CAETS) and for 2005-06 as President of the National Academies Forum (NAF), the coordinating body for Australia's four learned academies.

He was made an Officer in the Order of Australia (AO) in 1996 and a Centenary Medallist in 2003. In 2004, he was awarded the Cleveland Abbe Prize of the American Meteorological Society for Distinguished Service to Atmospheric Sciences by an Individual 'for tireless masterful leadership as President of the World Meteorological Organization and consistently wise counsel on policy issues critical to the international environmental community' and, in 2005, the 50th IMO (International Meteorological Organization) Prize of the World Meteorological Organization for 'his visionary leadership in international meteorology, his outstanding role in the strengthening of international cooperation in earth system science and his unique contribution to the work of WMO during sixteen years as First Vice President and President of the Organization'.

Mr Michel Jarraud is Secretary-General of the World Meteorological Organization (WMO) since January 1st, 2004. WMO is a United Nations' specialized agency and the authoritative voice on weather, climate and water (www.wmo.int). WMO also coordinates the activities of the National Meteorological and Hydrological Services of its 187 Members.

Before joining WMO as Deputy Secretary-General in January 1995, Mr Jarraud devoted part of his career to the internationally renowned European Centre for Medium-Range Weather Forecasts (ECMWF). He was appointed Deputy Director of the Centre in 1991 having been Director of the Operational Department since 1990. From September 1978 to December 1985, he was a researcher in numerical weather prediction at the ECMWF. Mr Jarraud started his career with Météo-France, as a researcher (September 1976 - August 1978). He joined the French National Meteorological Service again in January 1986 as Director of the Weather Forecasting Department, until December 1989.

Mr Jarraud is a scientist and a meteorologist with degrees from the prestigious French *Ecole Polytechnique* and the *Ecole de la Météorologie Nationale*. He is a member of the American Meteorological Society (USA), the *Société Météorologique de France*, the Royal Meteorological Society (United Kingdom), the African Meteorological Society and an Honorary Member of the Chinese Meteorological Society and the Cuban Meteorological Society.

Mr Jarraud is fluent in French and English. He was born in 1952 in Châtillon-sur-Indre, France. He is married and is the father of two children.

Mr. Dominique Marbouty was born in 1951 in Tours in France. He graduated from the prestigious French *Ecole Polytechnique* and the *Ecole Nationale de la Météorologie*.

Mr Marbouty has been Director of the European Centre for Medium-Range Weather Forecasts (ECMWF) in Reading, United Kingdom, since 2004. He was Head of Operations at ECMWF from 1999-2004.

Before joining ECMWF, Mr Marbouty was Deputy Director General of Météo-France for 10 years (successively in charge of operations, strategy and the development of regional services). During this period he supervised the automation of the observation network, the deployment of the new observing systems (radar and satellite in particular), the reorganisation of warning systems (with regard to civil emergency planning and flood warnings), and the modernisation of services developed for aviation and the army.

Mr Marbouty began his career in 1975 as a researcher the field of snow physics, snow remote sensing and the forecasting of avalanche risk. He was Head of the Centre d'Etudes de la neige in Grenoble from 1977 to 1984, after which he became Regional Director of Meteorology in Bordeaux from 1984 to 1989.

Mr Marbouty is a member of several meteorological associations, namely the Société Météorologique de France (SMF, France), the Royal Meteorological Society (RMS, UK) and the American Meteorological Society (AMS).

Mr Marbouty is married and has three grown-up children. Mr Marbouty has many interests, some of which are cinema, reading, running, skiing and hiking.

Mr. Dean Iatiseni Solofa graduated with a background in physics and environmental science from Canterbury University (New Zealand) and the University of the South Pacific (Fiji), and first became involved with climate services in working for the national meteorological service in Samoa. After collating a history of the then 100 year old Apia Observatory station and assessing the high vulnerability of historical weather and climate data in a vault, he set about the task of turning around a small data archiving function of the weather services into a dedicated data management operation that would set the foundation for the climate services section resurrected over the following year. This climate service expanded gradually with assistance provided by various regional partners to deliver climate data and information services, seasonal climate prediction services, and had begun interaction with water, energy/power, and fisheries sectors in the provision of specific climate data and information for their particular work. Throughout this, a participation in a key institutional strengthening exercise was to prove useful in identifying a way forward for the development of the core services of the NMHS, as well as improving upon the relevance for the existence of NMHS in national development efforts. Turning this focus on to the development of national meteorological services, both as a contributor to national development and fulfilling national duties and requirements, he was then drawn on to the Pacific Islands-Global Climate Observing System programme (a component of SPREP's Pacific region climate change programme) as a genuine way forward for the improvement of Pacific NMHS in terms of their local and regional operations, as well as making the connections to a global benefit in an improved global observing system

Mr. Jim Weyman is currently in a multiple functional position as Director of the WMO designated Regional Specialized Meteorological Center Honolulu for hurricanes; Meteorologist-in-Charge, Weather Forecast Office Honolulu; and Director, Pacific ENSO Application Climate Center. He has served in this position since 1996. The Honolulu forecast office is distinctive because it is the largest Weather Forecast Office in the United States both in personnel and in size of area of responsibility (5 times the size of the contiguous US); it is one of 13 offices co-located with a university (University of Hawaii); and it is the only Weather Forecast Office with 4 national/ international center responsibilities in hurricanes, aviation, marine, and climate. Plus, Hawaii is one of the most diverse climatic locations in the world having 10 of the 13 modified Koppen climatic zones.

Prior to moving to Hawaii, Jim served 6 years at the Weather Forecast Office in Pittsburgh, Pennsylvania as Deputy Meteorologist in Charge and was a meteorologist in the US Air Force for 20 years. Jim has a Bachelor of Science in Mathematics from Grove City College, a Master of Science in Meteorology from Texas A&M University, and a Master of Business Administration from Boston University.

Jim has been active in international activities and currently serves as the Chairperson for the WMO, Regional Association (RA) 5 Working Group on Climate Related Matters; Vice-Chairperson, ESCAP/WMO Typhoon Committee Advisory Working Group; a member of the WMO, RA 5 Tropical Cyclone Committee; and as a member, Pacific Island Global Climate Observing System Steering Group. He also directs the International Pacific Desk Internship program in Honolulu.

Dr. Konstantine P. Georgakakos Sc.D. is the Managing Director of the Hydrologic Research Center in San Diego, California. He is also an Adjunct Professor with the Scripps Institution of Oceanography of the University of California, San Diego, and with the Department of Civil and Environmental Engineering of The University of Iowa. He has held positions of Research Scientist IV with the Scripps Institution of Oceanography, of Associate Professor with tenure at the Department of Civil and Environmental Engineering of The University of Iowa, and of Research Engineer with the Iowa Institute of Hydraulic Research.

Dr. Georgakakos was also a Research Hydrologist with the Hydrologic Research Laboratory of the National Weather Service. He holds Master of Science and Doctor of Science degrees from the Massachusetts Institute of

Technology. Honors and awards include the Presidential Young Investigator Award from the U.S. National Science Foundation, the Faculty Scholar Award from The University of Iowa, and the NRC-NOAA Associateship Award from the U.S. National Research Council. He has authored or co-authored more than 130 publications regarding various areas of Hydrology, Hydrometeorology, and Hydroclimatology. He is the primary author of several software packages pertaining to real time flow prediction for operational use by Agencies such as the U.S. Army Corps of Engineers and the U.S. National Weather Service. He advised to completion of their degrees six Ph.D. students at The University of Iowa and two Ph.D. students at UCSD.

Dr. Georgakakos is a Fellow of the American Meteorological Society and a member of the American Geophysical Union, the Institute of Electrical and Electronic Engineers, the American Society of Civil Engineers, the American Association for the Advancement of Science, and the New York Academy of Sciences. He serves as an associate editor for the Journal of Hydrology and Advances in Water Resources. He serves as US Expert in Hydrologic Modeling for the World Meteorological Organization Commission for Hydrology (1997-present). He has served on several national and international committees and panels, and has organized national and international conferences on various hydrologic topics. He has supervised several large-scale international technology transfer projects in Africa, Europe, Central and South America. He is listed in the Who's Who in Technology and the Who's Who Worldwide.

Dr. Charles Vörösmarty's research interests are focused on the interaction between hydrology, water resources, and biogeochemistry. His research has included studies at local, regional, and global scales, including development of nutrient cycling models in New England coastal ecosystems; continental to global-scale modeling of water balance, discharge, sediment and nutrient delivery in the world's large river systems; and the influences of large-scale water engineering on continental runoff. Dr. Vörösmarty's publications have appeared in numerous peer-reviewed journals including Science, AMBIO, Climatic Change, Ecological Applications, Estuaries, Global Biogeochemical Cycles, Nature, Studies in Geophysics, Journal of Hydrology, and Water Resources Research. His research has relied on geographically-specific data sets and models. He and his co-workers have developed the Global Hydrological Archive and Analysis System (GHAAS), an interactive data base and scientific visualization package used in analyzing water and biogeochemical cycles at a variety of spatial scales. Applications of the GHAAS have included: orbital analysis of alternative remote sensing systems for inland water monitoring, indicators of water resource scarcity, the linking of remote sensing, ground-based meteorological data, and drainage basin models to monitor river discharge; geographically-specific analysis of the impact of large reservoirs on drainage basin response; development of high resolution runoff fields from the blending of modelled discharge, observed station data and river networks at the global scale.

Dr. Vörösmarty has been active in numerous international committees including the International Geosphere-Biosphere Programme (IGBP) Biospheric Aspects of the Hydrological Cycle and UNESCO's International Hydrological Programme. Dr. Vörösmarty has recently been appointed as a Commissioner on the US Arctic Research Commission, and he serves as co-chair of ESSP Global Water System Project. He also serves as President of the International Committee on Atmosphere-Soil-Vegetation Relations of the International Association of Hydrological Sciences. Main support for his work comes from NASA, the National Science Foundation, the US Environmental Protection Agency, the Department of Energy, and NOAA.