

SECOND HIGH-LEVEL SESSION OF THE OPEN CONSULTATIVE PLATFORM

PARTNERSHIP & INNOVATION
FOR THE NEXT GENERATION
OF WEATHER & CLIMATE INTELLIGENCE



26-27 May 2021, 13:00-14:30 UTC

VIRTUAL public.wmo.int/ppe

SPEAKERS AND PANELISTS

EVENT HOSTS:



Prof. Petteri Taalas

Professor Petteri Taalas has been the Secretary-General of WMO since 1 January 2016. He was appointed by the World Meteorological Congress in 2015 for a first four-year term. He is now serving his second four-year term (Jan 2020-Dec 2023).



Prof. Gerhard Adrian

Gerhard Adrian was elected by the Eighteenth World Meteorological Congress in 2019 for a four-year term beginning immediately after the closure of the Congress. This is his first term as President of WMO.

MODERATORS:



Ms. Erica Grow

Certified Broadcast Meteorologist in New York City, USA and owner of broadcast meteorology consulting firm Weather Elevate, LLC. In 2018, Erica was elected to the Council of the American Meteorological Society (AMS), and she currently serves as the Chairperson of the AMS's Board on Membership. Erica is

a 125th Anniversary Fellow of the Penn State University College of Earth and Mineral Sciences.



Mr. Gerald Fleming

Gerald Fleming retired as Head of Forecast Division for Met Éireann, the Irish Meteorological Service in 2017. For most of his 37 years with Met Éireann he worked as a weather forecaster and a weather broadcaster; he led the television weather team for Irish public service broadcaster RTÉ for about two

decades. A founder member and past Chairman of the International Association of Broadcast Meteorology, he was Co-Chair of the First World Conference on Broadcast Meteorology (Barcelona, 2004). A member of the Irish Meteorological Society and the American Meteorological Society, he is active in the European Meteorological Society and was awarded the EMS Silver Medal, their highest honour, in 2019.

Please note that the biographical information for participants are listed below by the alphabetic order. You may visit us at <https://ppe-openplatform.wmo.int/en/news-events/OCP2>

DAY ONE -26 MAY 2021

INVITED SPEAKERS:



Dr. Gilbert Brunet

Gilbert joined the Bureau in 2018 as Chief Scientist and Group Executive, Science and Innovation (SIG) after 12 years as Director of the Meteorological Research Division (MRD) of Environment and Climate Change Canada. As Chief Scientist, he promotes science and innovation within

the Bureau and advocates the Bureau's science and innovation to the wider community.



Dr. Kevin Petty

Dr. Kevin Petty is the director of science and forecasting and head of public-private partnerships for The Weather Company, an IBM Business delivering weather and climate services globally. He oversees research and development for weather solutions and is responsible for forecasting operations, including a global team of meteorologists across IBM's Watson Media and Weather organization. Petty also manages the company's relationships with members of the national and global weather enterprise that includes government agencies, academia, and other private-sector providers. Before joining IBM, he served as chief science officer (CSO) for Vaisala.

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Dr. Florence Rabier

Dr Rabier is Director-General at ECMWF. Her career so far has taken her back and forth between Météo-France and ECMWF. She is an internationally recognised expert in Numerical Weather Prediction, whose leadership has greatly contributed to delivering major operational changes, She is especially well known within the meteorological community for her key role in implementing an innovative data assimilation method (4D-Var) in 1997, which was a first worldwide and contributed to an optimal use of satellite observations in weather forecasting. She also led an international experiment involving a major field campaign over Antarctica, in the context of the Fourth International Polar Year and the WMO THORPEX programme.

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PANELISTS:



Prof. Andrea Celeste Saulo

Professor Celeste Saulo was elected First Vice-President of WMO by the Eighteenth World Meteorological Congress in 2019 for a four-year term beginning immediately after the closure of the Congress. She previously served as Second Vice-President and Acting First Vice-President of WMO. Professor Celeste Saulo has been the Director of the Argentinean National Meteorological Service (SMN) and Permanent Representative of Argentina at WMO since July 2014. She was elected to the WMO Executive Council in June 2015. She has been a member of the WMO World Weather Research Programme (WWRP) Scientific Steering Committee since 2011 and has served on various WMO panels related to her field of knowledge. She is full professor at the University of Buenos Aires and research scientist at the National Council for Scientific and Technical Research.

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Dr. Arlene Laing

Dr Arlene Laing is the Coordinating Director of the Caribbean Meteorological Organization (CMO) and the Permanent Representative of the British Caribbean Territories with WMO. She is well-known in several areas of meteorological research, such as tropical meteorology, thunderstorm systems, flash floods and mitigation, and satellite meteorology. She is the author of several publications, including Introduction to Tropical Meteorology, as well as a co-author of the award-winning Meteorology of Tropical West Africa: The Forecasters' Handbook. Prior to joining CMO, Dr Laing was a Scientific Analyst at the NOAA/Earth System Research Laboratory. Earlier, she has worked as a forecaster in Jamaica and as a scientist at the US National Centre for Atmospheric Research. She has also held various academic positions, among which Assistant Professor at the University of South Florida and Adjunct Professor of North Carolina State University.

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Mr. Craig McLean

Craig McLean is the current Acting NOAA Chief Scientist and Assistant Administrator for NOAA's Oceanic and Atmospheric Research (OAR) office. He is responsible for overseeing, directing and implementing NOAA's research enterprise including a network of research laboratories and the execution of NOAA programs including the Climate Program, National Sea Grant College Program, and Ocean Exploration, to name a few. Among a number of formal international engagements in science and technology, Mr. McLean serves as the U.S. Representative to the Intergovernmental Oceanographic Commission (IOC) and as a member of the World Meteorological Organization's Research Board. Mr. McLean has previously served in NOAA as Acting Deputy Assistant Administrator of the National Ocean Service, was the founding Director of OAR's Office of Ocean Exploration and Research and served in uniform for nearly 25 years in NOAA's Commissioned Corps, attaining the rank of Captain. Mr. McLean served aboard hydrographic, oceanographic, and fisheries research ships and was the first commanding officer of the NOAA Ship Gordon Gunter. He led NOAA's innovation and planning for the Smithsonian Institution's Sant Ocean Hall, and achieved a National Ocean Action Plan goal of securing a permanent, dedicated ship for the National Ocean Exploration Program, the NOAA Ship Okeanos Explorer. Craig is also an attorney and has practiced marine resource law for NOAA. He has been awarded the Department of Commerce Silver and Bronze Medals, the NOAA Corps Commendation Medal, and Special Achievement Medal. Most recently, he was awarded the Compass Distinguished Achievement Award from the Marine Technology Society. Mr. McLean is a Fellow of the Explorers Club, and of the Marine Technology Society, and a past-president and chairman of the Sea-Space Symposium.



Mr. Ian Lisk

Ian Lisk is the first president of the World Meteorological Organisation (WMO) Commission for Weather, Water, Climate and Environmental Services (SERCOCM). Since SERCOM was established in July 2019, Ian has led the development of new structures and partnerships to better coordinate and oversee the delivery of 'useful, usable and used' services to better protect and save lives and livelihoods around the world. Ian has worked for the UK Met Office in a variety of forecasting, training and senior management roles for nearly 34-years and has been involved in the work of WMO since 2003, primarily through the former Commission for Aeronautical Meteorology (CAeM) where he served as vice-president from 2010-18 and as the last CAeM president from 2018-19. Ian is based in Exeter in the south-west of England and is married with three children.



Mr. Jim Anderson

Jim Anderson is the senior vice president, global sales, at Earth Networks. He is focused on the international expansion of the company and meeting the weather and environmental monitoring needs for a number of vertical market stakeholders, including government agencies, agriculture, energy and transportation. Anderson joined the company in 2002 and led the launch business efforts in the energy, public safety, federal government and commercial verticals. Previously, Anderson was a principle consultant at American Management Systems, where he helped launch the energy and

utilities practice. Prior to that, he conducted economic and public policy research in the agriculture and environmental sectors. Anderson holds an MBA from Georgetown University, a master of science in environmental economics and policy from the University of Maine, and a bachelor of science in biology and economics from the University of Wisconsin-Madison.



Mr. Madhab Uprety

A hydrologist and water resource engineer with professional exposure to climate risk management and disaster resilience issues both at policy and operational level. Holds an MSc. degree in Hydrology and Water Resource Management from Imperial College London, UK. Current and past involvement includes several interdisciplinary and multi-sectoral regional programs and research that focuses on impact based forecasting, forecast based financing, climate risk management, disaster risk reduction, citizen science application, weather forecasting, community based early warning systems, resilience measurement, upstream-downstream linkages for managing ecosystem services, digital innovation on resilience building towards natural hazards and critically examining how physical and social sciences together inform policy and wider governance issues in reducing climate risks.



Mr. Michel Jean

Mr. Michel Jean graduated from the Université du Québec à Montréal (UQAM) in Physics in 1982 and obtained his Masters degree in Meteorology from McGill University in 1987. Early in his career he has been a meteorologist in various locations in Canada as well as R&D meteorologist in observing and forecasting systems, numerical weather prediction and transport and dispersion modeling, and professional instructor. In addition to managing staff from coast to coast, M. Jean was the senior executive functionally responsible for the entire weather and environmental prediction system in Canada, the long-term High-Performance Computing strategy and the development and implementation of the next generation integrated forecaster workstation. Since 1 April 2014, Mr Jean has been tasked to establish a new organization, the Canadian Centre for Meteorological and Environmental Prediction, whose objective is to provide Canada with the best human, science and technology infrastructure to analyze and predict atmospheric, ocean and ice conditions for decision making. Over the years, he has led the development of 'man-machine' interaction systems, including automated translation systems. From 2010 to 2016 he has been coordinator to the WMO CBS Management Group on the Disaster Risk Reduction program and the chair of an inter-commission task team on Meteorological, Hydrological and Climate Services for Improved Humanitarian Planning and Response and co-chair of a CBS ad-hoc working group on the evolution of the Global Data Processing and Forecasting System (GDPFS). He has been elected President of the Commission for Basic Systems in Guangzhou, China, in November 2016. Mr. Jean is the recipient of several citations and awards within the Public Service of Canada, including a citation of excellence. He is also the 2002 recipient of the Andrew Thompson prize in applied meteorology from the Canadian Meteorological and Oceanographic Society.



Dr. Paolo Ruti

Paolo Ruti is the Chief Scientist at EUMETSAT. He advises the Director-General on all scientific aspects of the organisation's strategy, including the assessment of new opportunities, whilst providing scientific leadership in bilateral and multilateral cooperation with other satellite operators and within the WMO. Paolo is the former Head of the World Weather Research Division at the WMO. He was responsible for the design and implementation of inter-disciplinary research and innovation programs across geophysical and social sciences to foster Earth system prediction. A further area of responsibility was to strengthen the value of science in decision making through collaboration with co-sponsored programmes (i.e., World Climate Research Programme, Global Climate Observing System), international prediction centres (i.e., ECMWF, NOAA, CMA), science foundations and UN organisations (i.e., NSF, EU, UNESCO, UNEP) and WMO member countries. He holds a Ph.D. in geophysics from the University of Torino and Genova, Physics Department, a Degree in physics from the University of Bologna.



Prof. Pauline Dube

Associate Professor, Department of Environmental Science, University of Botswana (UB). PhD from the University of Queensland, 2000. Pauline teaching and research experience extends to social and biophysical aspects of the environment including Remote Sensing, land degradation/desertification, veld fires, energy and environment, gender and environment, impacts of climate change, vulnerability and adaptation, sustainable development, integrated environmental resources management and environmental hazards and disasters. She has served in IPCC WGII assessments since the 3rd report and was in the Coordinating Lead Author team of the IPCC special report on global warming of 1.5 °C (IPCC SR1.5). Pauline founded and chaired the Botswana Global Environmental Change Committee (BGCC) that has since 1993 served to build awareness and motivate research on climate related environmental issues. She is the Deputy Chair of the Botswana Government National Climate Change Committee (NCCC) and serves in the Botswana National Disaster Management Technical Committee. BGCC and NCCC hosted the IPCC SR1.5, 4th Lead Author Meeting (LAM4), Gaborone, April 2018. During her term (2010-2015), as one of the Vice Chairs of the now phased out International Geo-sphere Biosphere Programme (IGBP),

Pauline led synthesis work on "Global Environmental Change and Least Developed countries" focusing on response to climate related hazards in the Asia Pacific LDCs. Recently Pauline teamed up with the Botswana Climate Change Network NGO to initiate a dialogue on climate change with the SADC Parliamentary Forum and the first meeting focused on climate change and tropical cyclones following disasters linked to cyclones Idai and Kenneth. Pauline serves as an Editor-in-chief, Current Opinion in Environmental Sustainability Journal. She was a Visiting Fellow, National Climate Change Adaptation Research Facility (NCCARF), Griffith University, Australia, 2012 and Environmental Change Institute, University of Oxford, 2018. She was the recipient of the University of Australia International Alumnus of the Year 2018.



Dr. Veronique Bouchet

Véronique Bouchet is currently the Director General of the Canadian Centre for Meteorological and Environmental Prediction (CCMEP). Dr Bouchet has a PhD from Université du Québec à Montréal in atmospheric modelling applied to air quality, during which she studied the coupling of atmospheric composition and meteorological and climate models. She later oversaw the development and operational implementation of the first on-line chemistry-meteorology forecast model and the establishment of a modelling service to support regulatory and policy decision-making at Environment and Climate Change Canada. From 2010 to 2020, Dr Bouchet held executive-level positions within Environment and Climate Change Canada, leading research teams in the Science and Technology Branch (STB) and development and operations in the Meteorological service of Canada. Since 2012, she has had actively engaged with Shared Services Canada and Science Technology in the evolution of the High Performance Computing solution, which supports the 24/7 operations of the MSC and key research modelling activities. Dr Bouchet contributes actively to the international community, including some of the new constituent bodies of the World Meteorological Organization (WMO). She represents operational World Meteorological Centres on the WMO Research Board and co-leads a task-team on Exascale Computing, data handling and artificial intelligence.

DAY TWO -27 MAY 2021

INVITED SPEAKERS:



Ms. Marianne Thyrring

Director General at Danish Meteorological Institute since 2013. Formerly Permanent Secretary for Ministry of Environment. Counsellor to the Minister for Economic Affairs and the Interior with regard to democracy issues. Graduated; Master of Political Science in 1984. Born in 1959. Married and have three children. Tasked as chair, vicechair and co-chair in several international - and European Meteorological cooperation, examples; ECOMET General Assembly Formerly member of the Commission on Public Leadership and Management. Chairman of Employer Panel for Physics, Chemistry and Nanoscience. University of Copenhagen, Faculty of Science.



Mr. Naoyuki Hasegawa

HASEGAWA Naoyuki was appointed as Director-General of the Japan Meteorological Agency (JMA) on 5 January 2021. Mr. Hasegawa has worked extensively with JMA in the management of meteorological services with particular focus on planning and development. In recent years he has dedicated himself to the development of regional disaster mitigation capacity across Japan based on enhanced relations with municipal governments. Throughout his career, he has also actively participated in international activities within the frameworks of WMO, the ESCAP/WMO Typhoon Committee and UNESCO/IOC.



Prof. Mansur Matazu

Professor Mansur Bako Matazu has assumed office as the Director General/CEO of the Nigerian Meteorological Agency, NiMet. Professor Matazu takes over from Professor Sani Abubakar Mashi following an approval by President Muhammadu Buhari for the reorganization of the Aviation Agencies in line with the implementation of his administration's Aviation Development Roadmap. Speaking at the handover ceremony held on Wednesday 17, March, 2021 at the conference room of NiMet headquarters, Abuja, Professor Matazu acknowledged the great feat achieved by his predecessor, whom he served as Technical Assistant. He added that Professor Mashi has achieved a lot for the Agency and taken it to a great height to become the best Meteorological Agency in the whole of Africa. Professor Matazu pledged to build on this success. He expressed gratitude for the opportunity to serve in this capacity and promised to run an all-inclusive administration. He noted that the former DG/CEO has always been his mentor.

PANELISTS:



Mr. A. R. Subbiah

Subbiah has operational responsibility for RIMES Program Unit and Regional Early Warning Center. He provides strategic direction and leadership for translation of policies, established by the RIMES Council, into effective and high quality programs and services that meet RIMES Member State needs and demands. Subbiah has 35 years of experience in drought mitigation and management, and more than 15 years of experience in establishing multi-institutional and multi-disciplinary mechanisms and building institutional capacities for generation and application of climate information at different timescales. He served as Reviewer of the IPCC Special Report on Managing Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX). Subbiah held senior positions with the Government of India, involved in policy formulation and implementation of development and disaster risk reduction programs till the late 1990s. Subsequently, Subbiah held the post of Director, Climate Risk Management and Team Leader for Early Warning Systems at Asian

Disaster Preparedness Center, and evolved and implemented a multi-country Climate Risk Management program and regional multi-hazard project that eventually transformed into RIMES as an inter-governmental and international institution in 2009.



Mr. Daouda Konate

Daouda Konate is Director of the National Service of Meteorology of the Côte d'Ivoire and Permanent Representative of Côte d'Ivoire with WMO since February 2012. As the Director of Meteorology, his role is to ensure the coordination of meteorological activities at the national level for observation, studies and forecasts. He also coordinates the management of network, harmonization of investment programs and work to the realization of a permanent dialogue between the users and providers climate services and through the national structures the use of information for Economic sectors and coordination of activities related to climate change. In the role of Permanent Representative, he was

commissioned by the Government to ensure the formal representation of Côte d'Ivoire with WMO. He deals with the implementation of WMO programs at the national level and ensures international cooperation and leadership essential for the development of weather, climate, hydrology. It participates with other national structures to coordinate the protection of people and property against natural disasters and the implementation of climate services for all sectors of society in areas such as food security, resource water and transport. He was a member of Management Groups of Global Framework on Climate Services (GFCS). He is elected member of the Executive Council of the WMO since the 66th session of the Executive Council in May 2015. Since February 2019, he ensures the functions of President of WMO Region I. He is in charge of implementation within the continent of WMO programs and the development of national meteorological services. From 2012 to 2014, he chaired the Committee of Directors of Meteorological Services of ECOWAS. He was responsible for the coordination of meteorological activities in the West African region on behalf of ECOWAS. He is responsible for the implementation of the meteorological program of ECOWAS and the development of cooperation with other agencies and sub regions. From 2000 to 2009, he was a member of the expert group of African Center for Meteorology and its Applications for Development (ACMAD) for the development of the African Strategy in NWP (SAPREM). Daouda Konate is Meteorologist Degree at the National School of Meteorology in Toulouse (France). He holds a Master of Physics at the Felix Houphouët Boigny Abidjan University and a Master of Economics. He is also graduate in MBA in management and business administration. He successfully completed the course on "bilateral and multilateral negotiations: strategies and techniques" organized by WMO and UNITAR.



Dr. Ken Takahashi

Dr. Ken Takahashi was appointed as a member of the WCRP Joint Scientific Committee (JSC) in 2019. He was previously a member of the CLIVAR Pacific Region Panel and of the WCRP CLIVAR Scientific Steering Group. Ken has a Ph.D. in atmospheric sciences from the University of Washington, Seattle, specializing in large-scale tropical coupled ocean-atmosphere processes. As a postdoctoral researcher at Princeton University/NOAA GFDL, he worked on the physics of global climate change. Back in his native Peru, his research was focused on the physics of El Niño, its regional impacts and its prediction. As a member of the Peruvian National Commission for El Niño Study, he played a key role in establishing operational procedures, as well as in informing stakeholders, decision makers and general population with respect to the scientific issues.



Dr. Kornelia Radics

Dr. Kornélia Radics is the first female President of the Hungarian Meteorological Service (OMSZ). She also serves as Permanent Representative of Hungary with WMO and, since 2018, as Vice-President of WMO Regional Association VI. Recalling the time she started her scientific career, Ms Radics exclaims, "Geoscience was my passion!" She studied at the Eötvös Loránd University in Budapest, where she obtained a Masters degree in Meteorology (1997), a Masters degree in Astronomy (1999), and her doctoral degree in Earth Sciences (2004). "My key to success was to take on the challenge of winning high-level state scholarships in my early years," she acknowledges, noting that "meteorology has plenty of beautiful opportunities for researchers." Her personal interests focus on wind forecasting, wind energy, climate change, and renewable energy sources.



Dr. Louis Uccellini

Dr. Louis W. Uccellini is Director of the National Weather Service, where he leads the mission of the agency – to provide weather, water, and climate data, forecasts, and warnings to protect life and property and enhance the national economy. He champions close partnerships with emergency managers and understands how the public benefits from coordinated and consistent messages as it prepares for extreme weather and water events. He is passionate about creating a Weather-Ready Nation and encourages the workforce to build relationships with their local emergency managers and to provide timely and consistent decision support services. Dr. Uccellini leads a workforce of over 4,400 employees who serve the public throughout the United States.



Mr. Patrick Benichou

He is both a senior meteorologist graduate from National School of Meteorology (1982) and a businessman with Executive MBA from HEC-Paris (2000). As a meteorologist he has been working with Météo-France, the leading French National Meteorological Service, until 2000, as an expert in hydrometeorology, data assimilation and multidimensional statistics. He was also in charge of major development projects in Météo-France before acting as deputy Head of Operations. From this last position, he promoted the idea of setting up a specific entity in charge of transferring Météo-France knowhow abroad, especially towards developing countries, in a context of growing concern on climate change or natural disaster and risk management. In 2002 he founded Meteo France International (MFI) as a private company subsidiary of Météo-France. Since then, he has been managing MFI based on a unique strategic positioning of "meteorological designer and integrator". As such and beyond the day-to-day operation and management activities, he is deeply involved in the design and implementation of complex Modernization Plans for National Meteorological Services (NMHSs) like in Indonesia, India or Angola, and in the related interactions with local Governments in the fields of socio-economic benefits, strategic planning or capacity building. As a member of the Global Weather Enterprise Forum and WMO Open Consultative Platform, he also promotes the concept of Public Private Engagement, especially to help NMHSs secure and speed up the implementation of the Meteorological value chain for the benefit of their country and ultimately become reference players locally. MFI is now a grown-up company with increasing turnover and growing ambitions. MFI experience and know how are also fully acknowledged by international organizations like WMO and main development partners.



Mr. Stephen Hunt

Stephen Hunt was born in the UK and raised in Dunedin, New Zealand. Mr Hunt has enjoyed a wide and varied career in the aviation industry. He served as a Royal Air Force fighter pilot from 1986 to 2003. After a sabbatical flying business jets in Australia, Mr Hunt returned to New Zealand serving eight years for the RNZAF in various senior roles involving operational leadership, standards, test and development programmes, strategic commitments and relationships. After completing an MBA at Victoria University in 2013, Mr Hunt held executive roles with the Civil Aviation Authority, and on the Air New Zealand senior leadership team was responsible for air operations and safety. Since 2017 Mt Hunt was a director of a consultancy

businesses specialising in strategic operations, aviation, energy and risk. Mr Hunt has held a number of governance roles including the Board Chair of Risk NZ, New Zealand’s largest association of risk professionals. Mr Hunt was appointed as CEO MetService New Zealand in January 2021.



Dr. Sue Barrell

Dr Sue Barrell FTSE is committed to the application of science to delivering highly valued outcomes for society and is a committed advocate for empowering girls and women in science careers. Following a long career at the Australian Bureau of Meteorology, Sue retired in August 2018 from her final

role as Chief Scientist, with responsibility for Science to Services, Enterprise Innovation, Global and National Science Relationships, and Diversity, Inclusion and STEM. Her experience spans roles across the Bureau’s operations, from forecasting to research to science/climate policy to leadership roles in IT, observations and science. Sue spent an extended period with responsibility for the sustained operation of Australia’s highly distributed meteorological infrastructure and capability, delivering comprehensive observations of the earth system essential to underpin the Bureau’s climate and weather services. Her research credentials include publications in satellite meteorology, cold front dynamics and cloud band climatology. Sue has been actively involved in international efforts relating to climate policy and the coordination and integration of earth observations, including through GCOS, IPCC, GEO, UNFCCC and WMO. She served as Australia’s Permanent Representative to WMO and an acting EC member (2015-16) and served two terms as Vice President of the Commission for Basic Systems. She has led or co-led several high-level WMO activities, including the development of WMO Integrated Global Observing System (WIGOS) and the CBS-led Review of Emerging Data Issues. Sue continues her commitment to science through multiple science leadership, board and advisory roles across a wide spectrum of science and technology, including as Vice President of Science and Technology Australia (STA), University of Technology Sydney Council and Chair of Australia’s Marine National Facility Steering Committee. Sue was recognised as a Fellow of the Australian Academy of Technology and Engineering in 2013. She has a BSc (Hons) in Physics and a PhD in Astronomy.



Mr. Xiaonong Shen

Mr. Xiaonong Shen is currently Deputy Administrator of China Meteorological Administration (CMA). He was ever the Director General of Foreign Affairs Department, CMA and had long been in charge of international cooperation in meteorology. He visited more than 30 countries and regions, and participated

in over 60 important international meetings and bilateral exchanges as head or deputy head of delegation, including WMO meetings and IPCC sessions.



Mr. Vladimir Tsirkunov

Lead Specialist of Hydromet Program Lead, World Bank (WB) Group, Global Facility for Disaster Reduction and Recovery (GFDRR). He is a Lead specialist and the team leader of Hydromet Program of the Global Facility for Disaster Reduction and Recovery (GFDRR) of the World

Bank. al Asia (ECA) vice-presidency of the International Bank for Reconstruction and Development, the World Bank. Dr. Tsirkunov has over 30 years of scientific, applied technical and project management experience in environmental and natural resource management. Prior to joining the World Bank in 1994, he was the Head of the Laboratory of the Supervision of the USSR System of Hydrochemical Monitoring and Water Quality Data Collection.