

UNCTAD Ad Hoc Expert Meeting on Climate Change Adaptation for International Transport: Preparing for the Future

16 – 17 April 2019

Palais des Nations, Room XXIV, Geneva, Switzerland

SPEAKER BIOS

Regina Asariotis, Chief, Policy and Legislation Section, UNCTAD



Regina Asariotis is Senior Legal Affairs Officer and Chief of the Policy and Legislation Section (Trade Logistics Branch) in the Division on Technology and Logistics of UNCTAD (United Nations Conference on Trade and Development), where she is responsible for the Secretariat's work in the field of transport law and policy (see <http://unctad.org/ttl/legal>). This includes work, since 2008, on the implications of climate change for maritime transport and technical assistance with a focus on climate change impacts and adaptation for key coastal transport infrastructure, notably seaports and airports, in Caribbean SIDS (<http://SIDSport-ClimateAdapt.unctad.org>).

Before joining UNCTAD in 2001, Regina was a Senior Lecturer in Law at the University of Southampton, and member of the University's Institute of Maritime Law, where she taught international maritime and trade law for more than 10 years. She holds a law degree from the University of Augsburg, an LL.M from the University of Southampton and a Dr. jur. from the University of Hamburg and is a Barrister (England & Wales) and Attorney at Law (Greece), as well as Member of the Chartered Institute of Arbitrators (CIArb).

Austin Becker, Associate Professor, University of Rhode Island



Dr. Austin Becker is Associate Professor and Director of Graduate Programs in the Department of Marine Affairs at the University of Rhode Island (URI). He is an interdisciplinary scientist working across the fields of urban planning and policy, engineering, and ocean science. He uses seaports as a case study, creating and testing tools that help decision makers engage with complex natural hazard resilience problems. He has received funding from the Department of Homeland Security, the US Army Corps of Engineers and the RI Dept. of Transportation to conduct work on seaport resilience and vulnerability assessments. Dr. Becker's work is recognized globally and he is a member of several expert groups, including at the United Nations Conference on Trade and Development (UNCTAD) and the American Society of Civil Engineers. He is co-editor of *Climate Change Adaptation Planning for Ports* and has over 30 peer-reviewed journal articles and book chapters and has presented at over 75 conferences. In 2017, Dr. Becker was awarded the prestigious Sloan Foundation Research Fellowship in Ocean Sciences and, in 2018, the URI Early Career Research and Scholarship Excellence Award. He earned a *PhD in Environment and Resources* at Stanford University, a *Master of Marine Affairs* and *Master of Environmental Science and Management* at URI, and a *B.A.* at Hampshire College. He also worked for many years as a captain of sail-training vessels and maintains his 500-Ton U.S. Coast Guard captain's license for ocean-going vessels. More info at [web/uri.edu/abecker](http://uri.edu/abecker).

Simon Bennett, Deputy Secretary General, International Chamber of Shipping (ICS)



Simon has worked for ICS for the past 20 years. A history graduate of Oxford University he initially worked for the General Council of British Shipping. He then worked on industrial relations issues with the International Maritime Employers' Committee (IMEC) and the International Shipping Federation (ISF). He is currently ICS Deputy Secretary General, with overall responsibility for ICS policy and communications. Working for ICS, Simon has represented the global shipping industry at the various intergovernmental organisations which impact on shipping including IMO, ILO, UNFCCC, OECD and WTO. He lives in east London.

Jan Brooke, World Association for Waterborne Transport Infrastructure (PIANC)



Jan Brooke is the Focal Point for 'Navigating a Changing Climate', a Global Climate Action initiative led by PIANC, the World Association for Waterborne Transport Infrastructure. Jan is also the UK representative on PIANC's EnviCom; the Chair of their Permanent Task Group on Climate Change; and the mentor for PIANC's technical Working Group 178, an international group of experts developing technical guidance on climate change adaptation for ports and inland waterways.

In her 'day job', Jan works as an independent advisor to various UK and European ports, where she specialises in ensuring that port and navigation infrastructure and operations comply with relevant national and international environmental legislation. She also advises on climate change issues.

Rachel Burbidge: Policy Officer: Environment and Climate Change



Rachel Burbidge joined EUROCONTROL in 2005. She has been leading EUROCONTROL's work on climate change adaptation and resilience since 2009. She is the Agency's policy officer for international Working Group on CORSIA. She is also a member of the ICAO CAEP Impacts and Science Group and Airport and Operations Working Group where she co-leads work on climate adaptation.

John Dora, Independent International Adaptation Consultant



John Dora is a Chartered Civil Engineer and Fellow of the Institution of Civil Engineers, of the Institute of Environmental Management and Assessment, and of the Permanent Way Institution. He has the rare privilege of being an Engineer who is also a Fellow of the Royal Meteorological Society. With thirty-seven years' experience in flood defence and rail infrastructure, spanning policy to delivery, his career has covered research, construction and maintenance of civil engineering infrastructure and he has become an acknowledged expert in resilience. He is somewhat unique in being experienced as a front-line engineering practitioner who works now at policy and strategic levels, using

his experience to advise at government level with many links into current science and research programmes. John has chaired the Infrastructure Operators' Adaptation Forum since its inception in 2012 and is a member of the Environment Agency's Thames Region Flood and Coastal Committee. He serves on a number of high-level advisory panels including the British Standards Institution's (BSI) Climate Adaptation Group. John also teaches infrastructure resilience to Masters' students at the University of Surrey, and sustainable asset management to Singapore Metro post-graduates via the University of Birmingham.

John's current work includes membership of the International Standards Organisation's (ISO) Climate Change Strategy Task Force and is a climate adaptation expert for CEN/ CENELEC, the European standards body and for the European Commission's Taxonomy Expert Group. Recent work included chairing the ISO's working group responsible for developing ISO14090 – the first International Standard on climate change adaptation; advising the World Bank on adaptation for 1100Km of new freight railway in India; EdF on climate resilience for power stations; the European Bank for Reconstruction and Development on railway long-term resilience and on standards for investors; Network Rail on climate change scenarios; the Paris-based International Union of Railways on climate sustainability issues, co-authoring the [RailAdapt report](#); the World Bank on urban railway resilience; and HS2 on system interdependencies and climate risks (commended by the UK Government's Committee on Climate Change).

Among past achievements, John was the creative force in the GB main line railway's research into climate change, masterminding the £2.5M programme of world-leading research - [TRaCCA](#) - which featured in the UK's National Adaptation Plan. In wider circles he was one of the advisors on the UK Government's update on the National Adaptation Programme and its Climate Change Risk Assessment, and provided the rail evidence for the LWEC (Living with Environmental Change) '[Report Card](#)' on transport adaptation. See his Linked-In profile [here](#)

Andrew Dryden, Technical Programme Manager, International Standards Organization (ISO)



Andrew Dryden has been serving as a Technical Programme Manager at ISO in Geneva for more than eight years, focusing on standardization committee management in the transport and IT sectors. These sectors represent two of the most active areas of standards development work in ISO's portfolio, covering road vehicles, shipping and marine technology, aerospace, railway, intelligent transport, IT communications, and many other industries. Prior to ISO, Andrew served an additional eight years as a Senior Program Manager at the Telecommunications Industry Association in the United States, focusing on standardization in the wireless communications sector.

Sarah Duff, Associate, Climate Resilience Investments, European Bank for Reconstruction and Development (EBRD)



Sarah Duff is an Associate in the Climate Resilience Investments Unit at the European Bank of Reconstruction and Development (EBRD). She leads EBRD's work on climate resilience in the transport sector, working with businesses and government bodies considering how they are affected by physical climate risks, and integrating climate resilience into their infrastructure assets, networks and operations. Sarah also leads EBRD's work on standards and guidance for climate resilience, looking at how improved processes can be streamlined into investments.

Before joining EBRD, Sarah worked for the European Investment Bank (EIB) as the Lead Climate Expert in JASPERS, where she developed a framework of guidance papers for

European Member States on addressing climate change considerations in the development of major infrastructure projects.

Carole Escolan, Manager Sustainable Development, International Union of Railways (UIC)



Carole ESCOLAN joined UIC in November 2017 as the Head of the Sustainable Development Unit. After a Master's degree in international purchasing, she gained a 12-year experience in the field of industrial purchasing: first working for Bombardier Aerospace in Canada for two years, then at SNCF – French railways, in France. In 2010, further to an inspiring experience in sustainable purchasing, and convinced that professional skills should serve some more global issues, she attended a new master's degree in the field of sustainable development and made a career change to Corporate Social Responsibility. Since then, she has acquired a strong expertise in that particular field at SNCF. She has had great opportunities to promote sustainable mobility and environmental issues to UIC members and partners over the last 18 months in her position.

Michael Gill, Executive Director, Air Transport Action Group (ATAG)



Michael Gill is executive director of the Air Transport Action Group (ATAG), the only global association that represents all sectors of the air transport industry. Its mission is to promote aviation's sustainable growth for the benefit of global society. He was appointed as Director, Aviation Environment of the International Air Transport Association (IATA) in November 2013, with responsibility for developing and implementing IATA's work in the environment field, particularly in the areas of climate change, noise, biofuel commercialisation and the IATA environmental assessment programme. Prior to that, he spent six years as senior legal counsel in IATA, supporting IATA's external affairs portfolio. In that role, he led IATA's delegation to three ICAO diplomatic conferences on airline regulatory and security issues. Before joining IATA in May 2007, Michael was an aviation lawyer in private practice at the Paris Bar, acting for airlines and their insurers. He holds law degrees from both King's College, London and the Sorbonne University in Paris, as well as a master's degree from the University of Edinburgh. He is admitted as a solicitor of the Supreme Court of England and Wales and an avocat in France.

Simon Hodgkinson - Research Fellow, University of Birmingham



Simon Hodgkinson is a Research Fellow at the University of Birmingham. His research interests are at the interface of meteorology and engineering, investigating the influence of weather and climate on infrastructure systems. Simon has recently completed his PhD, which focused on developing service level criticality metrics for infrastructure networks and their interdependencies. Simon has been involved with national and international projects seeking to provide guidance on adaptation of transport systems to climate change, including TRCCA and the UIC sponsored Rail

Adapt programme. He is now part of the urban climate research group at the University of Birmingham, where his current research involves exploring how big-data and sensing technology can provide real-time insights into the interactions between weather and transport infrastructure at the city-scale.

Daniel Kull, Senior Disaster Risk Management Specialist, World Bank/ GFDRR



Currently a Senior Disaster Risk Management Specialist at the World Bank, leading projects to increase disaster and climate resilience in Europe and Central Asia. His career has always focused on disaster risk reduction in the public, private and academic sectors. This includes previous assignments with the International Federation of Red Cross and Red Crescent Societies (IFRC), United Nations, Government of Switzerland (in Tajikistan), Swiss Reinsurance Company, Swiss Federal Institute of Technology and the US Army Corps of Engineers (domestic flood management). Has Bachelor's degree in civil engineering and a Master's degree in Water Resource Engineering.

Boram Lee, Senior Scientific Officer, World Climate Research Programme, WMO



Boram Lee is Senior Scientific Officer of the World Climate Research Programme (WCRP). Her responsibilities include leading the planning and coordination of the WCRP core projects on the Stratosphere-troposphere Processes And their Role in Climate (SPARC) and the Global Energy and Water Cycle Experiment (GEWEX), in close coordination with the respective International Project Offices. She is also in charge of supporting the coordination of WCRP's regional activities through its Coordination Office for Regional Activities (CORA) and with relevant national, regional and international research communities. Boram's responsibility extends to the development of WCRP initiatives on urban climate; monitoring and supporting the implementation of WCRP Grand Science Challenges on Weather and Climate Extremes and on Water for the Food Baskets of the World; and supporting/enhancing partnerships with early career scientists. Before joining WCRP in 2014, Boram worked for the World Meteorological Organization (WMO), responsible for international coordination of marine meteorological affairs including coastal risk forecasting and warning, through the Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM). Boram's experience comprises intergovernmental science policy, as well as the development and management of research & development projects in marine meteorology and coastal disaster risk reduction; she has led the development and coordination of the WMO Coastal Inundation Forecasting Demonstration Project (CIFDP). Boram worked at the Intergovernmental Oceanographic Commission (IOC) of UNESCO from 2003 to 2011 as a Programme Specialist, at the National Institute for Agro-Environmental Sciences of Japan in 2002 as visiting scientist, and at the Korea Meteorological Administration (KMA) from 1995 to 2001 as research scientist. Since 2010, Dr Lee serves as adjunct professor in the College of Ocean Science, Jeju National University, Republic of Korea. Boram Lee holds PhD in climatology from the Université Paris VI, France, Masters and Bachelor's degrees in atmospheric science from the Seoul National University in Korea.

John Lengel, Adaptation Task Lead, Airports Council International (ACI)



Over the last 30 years, John has worked with dozens airports from large hubs to general aviation airports helping to solve environmental challenges. Through this experience, John has gained a holistic view of how airports operate, develop and conduct business. He brings an understanding of the nuances to successful airport management — safety, costs, environmental impacts, operational implications, airport development issues, management of assets, tenants and customer satisfaction. The intricacy of airport management is now further complicated by changing weather patterns, rises in sea levels, and frequent severe events, causing uncertainty. John leads RS&H's Aviation Environmental Stewardship and Resiliency service group providing tailored resiliency solutions and guidance. John also leads ACI's World Environment Standing Committee (WESC) Task Force on Climate Adaptation.

In addition to individual airport-specific projects, John was a key contributor to industry-wide research publications including ACRP Report 147: Climate Change Adaptation Planning: Risk Assessment for Airports. John assisted with the development of a climate change adaptation guidebook and tool for airports that identifies potential impacts from climate change, assesses related airport risks, and provides guidance for managing related uncertainty. John also contributed aviation expertise to the development of ACRP Report 188: Using Existing Airport Management Systems to Manage Climate Risk. John assisted in developing a handbook and pocket guide helping airport planners, managers, and operators understand how to integrate climate change-related risks into an airport's existing management systems (e.g., Master Plans, Strategic Plans, etc.)

Patrick Mallejacq, Secretary General, World Road Association (PIARC)



As Secretary General of the World Road Association (PIARC), Patrick Malléjacq's mission is to provide support to road administrations and professionals across the globe. PIARC focuses on identifying and disseminating best practice between all PIARC members, with a focus on low- and middle-income countries, publishing the Routes/Roads magazine, implementing an ambitious knowledge-sharing programme on all road-related topics, with the publication of a report per month and the organisation of a seminar every six weeks on average. A key current project is the organisation of the forthcoming 26th World Road Congress (Abu Dhabi, 6-10 October 2019).

Patrick is a French civil servant («ingénieur en chef des Ponts, des eaux et des forêts»). Before joining PIARC, he was instrumental in organising the Transport Research Arena conference in Paris in 2014 and in developing EU-sponsored research programmes and projects at IFSTTAR-France. He held positions at SETRA-France and at the French ministry of transport, mainly on road safety and ITS issues, and led «EasyWay» implementation projects. Patrick was posted at the French Embassy in Tokyo and started his career at IGN, the French national mapping institute.

Adolf Ng, Professor of Transportation and Supply Chain Management, University of Manitoba



Adolf K.Y. Ng is Professor at the Asper School of Business of the University of Manitoba, Canada. Also, he is the Vice-President of the Hong Kong-Canada Business Association (Winnipeg Section). Earned his PhD from University of Oxford, UK, he excels in transport geography, climate change adaptation and resilience, infrastructure planning and management, organizational change, global supply chains, and Arctic shipping. He is a Senior Editor of European Journal of International Management, an Associate Editor of Maritime Policy & Management and Asian Journal of Shipping and Logistics, and a Council Member of the International Association of Maritime Economists (IAME).

Willard Phillips, Economic Affairs Officer, UNECLAC



Willard Phillips is a specialist in Applied and Environmental Economics with more than 20 years' experience in economic and development issues related to Caribbean SIDS. He has worked for national and international organizations in Central America and the Caribbean, including the Inter-American Institute for Cooperation on Agriculture (IICA), and the Caribbean Agricultural Research and Development Institute (CARDI). Since 2004, he has served in the United Nations, firstly as a Programme Specialist, with UNDP, and subsequently with UN Economic Commission for Latina America and the Caribbean, where he now works as an Economic Affairs Officer. His current work involves research into issues related to sustainable energy, tourism, disaster risk reduction and transportation.

Nick Pyatt, Director, TRI OSS



Nick is an organisational development specialist and executive coach. He specialises in supporting organisations with climate change challenges and opportunities. Clients range across private, public and third sectors. He has conducted this work across Europe, North America, Africa, Asia and Australia.

Elizabeth Smalley – Manager Adaptation Policy, Transport Canada



Elizabeth Smalley has been with Transport Canada for most of her 15 year Canadian federal public service career, with her current role being the Manager of the Adaptation Policy Team. Her team co-led the creation of a Climate Risks and Adaptation Practices for the Canadian Transportation Sector report, the development of new adaptation programs for Transport Canada, and the department's first adaptation plan. Prior to this, Elizabeth worked on sustainable development policy issues, including the development and reporting on the department's Sustainable Development Strategy. She also worked as a transportation

planner for a local city council in Auckland, New Zealand. Elizabeth holds a degree in Environmental Studies from Carleton University with a Minor in Resource Assessment, and a Master's in Public Policy from the University of Auckland.

Walters Tubua, Associate Programme Officer Adaptation Programme, UNFCCC



Walters Tubua works with the Science and Review team of the Adaptation Programme in the United Nations Climate Change secretariat in Bonn, Germany. Walters has been with the UNFCCC for close to six years and supported the intergovernmental negotiations on the Paris Agreement, which was adopted in December 2015. He also recently worked on the Paris Agreement rulebook focusing on developing the modalities and identifying the sources of input for the global stocktake (Article 14 of the Paris Agreement). Prior to joining the UN secretariat on climate change, Walters worked in sub-national governments in Canada as a Climate Change Specialist.

Michael Vousdoukas, Researcher, European Commission Joint Research Centre (ECJRC)



Dr Michalis I. Vousdoukas is a coastal oceanographer, currently employed at the European Commission's Joint Research Centre (JRC). He makes part of a group carrying out multidisciplinary work, developing tools and methodologies allowing to assess climate change impacts along the European and global coastlines. These efforts cover the whole spectrum from hazard, to impact and adaptation; including large-scale ocean modelling, exposure datasets and risk assessment. He graduated at the Chemical Engineering Department of Aristotle University of Thessaloniki, Greece (2002). After being awarded his PhD on coastal morphodynamics (2006) he has worked at the NATO Underwater Research Centre (Italy), IFREMER (France), University of Algarve (Portugal), University of Hannover (Germany), and since 2015 he is appointed Associate Professor at the Department of Marine Sciences of the University of the Aegean. Prior to his current activities in the JRC, he has been involved in several European and national research projects, dealing with monitoring and modelling of nearshore morphodynamic processes. He is author of more than 45 scientific journal papers, 2 book chapters and several international technical reports. He regularly acts as invited expert for the United Nations Conference on Trade and Development (UNCTAD) in activities supporting SIDS sustainability.

Michael Woods - Principal Operations Specialist, Rail Safety and Standards Board, UK (RSSB)



Michael Woods is Principal Operations Specialist R&D at RSSB. He provides advice and information, manages responses to public and media enquiries about the research portfolio and focusses on the implementation of research projects designed to improve cost-effective safety and business improvement on Britain's National Rail network in the areas of Operations, Occupational Health, Public Behaviour, Level Crossings and Sustainable Development. He is currently working on research into accessibility, air quality at railway stations and climate change adaptation.

A career railwayman, Michael was previously Executive Consultant, AEA Technology Rail, 2000-2004; Director Technical Services, Office of the Rail Regulator 1998-2000; International Transport Consultant and Lecturer 1996-1998; and Director, Planning & Development, Eurostar (U.K.) Ltd, 1995-1996. From 1973 to 1996 he worked for

British Rail / European Passenger Services in a variety of operating, marketing and policy roles, in Bristol, Newcastle, Kent and London.

Susanna Zammataro, Director General, International Road Federation (IRF)



In her capacity as Director General of the International Road Federation (IRF) in Geneva, Switzerland, Susanna Zammataro is responsible for developing and implementing strategic plans for the organization. Established in 1948, IRF is a membership-based organisation, representing leading corporate and institutional players drawn from the road and mobility sectors worldwide. Its mission is to promote the development of roads and road networks that enable access and sustainable mobility for all (www.irfnet.ch). As in-house expert on Environment and Climate Change, she is also responsible for the overall environmental programmes and activities run by the IRF. These include the Greenhouse Gas Calculator for road infrastructure (CHANGER), the Green Public Procurement Initiative and Innovative Practices for Greener Roads. Susanna represents IRF in several Technical Committees relating to Sustainability: she's a member of the UNECE Climate Change Expert Group on Adaptation; the accredited IRF representative for the COP negotiations and the coordinator of the IRF Group of Experts on Environment & Climate Change.

Mrs Zammataro is a member of the Advisory Board of the FIA High Level Panel on Road Safety. She's serving since 2012 as the Co-Chairperson of the "Safer Roads and Mobility" Pillar of the United Nations Road Safety Collaboration Group (UNRSC), a global multi-stakeholder partnership whose aim is to facilitate international cooperation and to strengthen global and regional coordination.

She has recently joined the Board of the Total Foundation to support and lend her expertise to the Sustainability (Environment and Climate Change) and Road Safety work streams of the Foundation. She has been involved in the Sustainable Mobility for All initiative (SuM4All) led by the World Bank since its inception and serves currently as a Steering Committee Member and one of the experts involved in the WGs on Efficiency, Safety and Gender.

She has represented the Federation at high-level meetings all over the world. She is regularly invited to speak on a variety of topics at international fora and conferences.