



## Welcome address



**Dr. Fang Liu, Secretary General, International Civil Aviation Organization (ICAO)**

Dr. Fang Liu is the Secretary General of the International Civil Aviation Organization (ICAO), having been appointed for a three-year term beginning August 2015. Prior to her appointment as Secretary General, Dr. Liu served for eight years as the Director of ICAO's Bureau of Administration and Services (ADB). During her tenure, she contributed extensively to ICAO's Senior Management Group and also participated in the High-Level Committee on Management within the United Nations common system. She transformed the administration of ICAO by enhancing efficiencies, improving governance, and providing effective management and support in areas such as human resources, language services, and conference and information technology services.

Prior to joining ICAO, Dr. Liu served the General Administration of Civil Aviation of China (CAAC), where over the course of twenty years she successively held the posts of Legal Counsel, Deputy Director, Director and Deputy Director General, Department of International Affairs and Cooperation. She was responsible for China's international air transport policy and regulations, bilateral and multilateral relations with international and regional organizations including ICAO, the World Trade Organization, the Asia-Pacific Economic Cooperation (APEC), the European Union, and the Association of Southeast Asian Nations (ASEAN).

During her career with the CAAC, Dr. Liu was elected chair of the Aviation Group of the Asia-Pacific Economic Cooperation (APEC) and was nominated by China to sit on the Air Transport Regulation Panel in ICAO. She also served as an expert on mediation and dispute resolution. She was chief negotiator for the Chinese government for bilateral and multilateral air transport agreements with foreign countries.

Dr. Liu earned a PhD in international law at Wuhan University, China, and a Master's degree in air and space law at Leiden University, the Netherlands. She is the Director of the Association of Air Law of China and of the Association of Private International Law of China, and has published articles and delivered lectures on a wide range of topics in international air transport regulation and air law.

## Keynote speakers

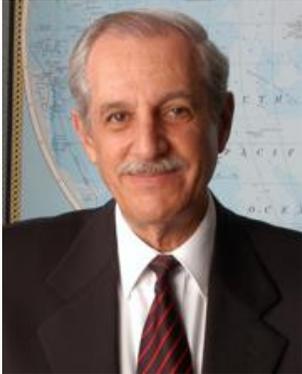


**Dr. Bráulio Ferreira de Souza Dias, Executive Secretary, Convention on Biological Diversity (CBD)**

Bráulio Ferreira de Souza Dias is the Executive Secretary, Convention on Biological Diversity. He has over three decades of experience in biodiversity science and policy and its implementation at national and international levels. Dias previously served as a Vice-President of the International Union of Biological Sciences, Coordinator of the Steering Committee of the Inter-American Biodiversity Information Network, Member of the Scientific and Technical Advisory Panel of the Global Environment Facility, Director for Biodiversity Conservation, and National Secretary for Biodiversity and Forests at the Brazilian Ministry of the Environment.



## Keynote speakers



**Mr. Roberto Kobeh González, Lifetime Goodwill Ambassador of ICAO**

Mr. Roberto Kobeh González served as President of the Council of the International Civil Aviation Organization (ICAO) from 2006 to 2013. He was elected to the position after serving eight years as the Representative of Mexico on the Council. During that time, he served as First Vice-President of the Council, Chairman of the Finance Committee, and as a Member of the Air Transport Committee.

Beginning in 1966, Mr. Kobeh González held a number of posts of increasing responsibility with his Government's Directorate General of Civil Aeronautics. As Deputy Director General in the areas of Administration and Air Transport, he took part in negotiations on bilateral agreements with various countries. From 1978 to 1997, he served as Director General of the Air Navigation Services of Mexico (SENEAM), the agency responsible for providing navigation, air traffic control, meteorology, and aeronautical communications services.

Mr. Kobeh González has also been a professor of aeronautical electronics at the National Polytechnic Institute of Mexico.

Upon his retirement, in December 2013, the Organization's governing body conferred on Mr. Kobeh the honorary title of "Lifetime Goodwill Ambassador of ICAO" in recognition of his outstanding contribution to international civil aviation.

## Setting the Scene



**Mr. Boubacar Djibo, Director, Air Transport Bureau (ATB), ICAO**

Boubacar Djibo was appointed Director of the Air Transport Bureau of ICAO in November 2011. His current duties include the management of programmes to achieve three of the five strategic objectives of the Organization, namely security and facilitation, economic development of air transport, as well as environmental protection. Before joining ICAO, Mr. Djibo, who has more than 30 years of experience in aviation, was Secretary General of the African Civil Aviation Commission (AFCAC). While there, in order to execute a sustainable civil aviation system in Africa, he worked on key initiatives in the areas of regional coordination for the implementation of the ICAO Standards and Recommended Practices relating to safety

and security, the implementation of the Yamoussoukro Decision for the liberalization of air services, training and capacity building together with the African Union, African regional economic communities, ICAO, International Air Transport Association (IATA), Airports Council International (ACI) and African Airlines Association (AFRAA). In an aviation career beginning in 1984, he occupied a number of key positions, including Director of Civil Aviation of Niger and ICAO Project Coordinator. He also served on the Boards of Directors of Air Afrique and the Agency for Aerial Navigation Safety in Africa and Madagascar (ASECNA).



## SESSION I – Partnerships to advance the Scientific Understanding of Aviation and Climate Change



### **MODERATOR: Amb. Michael A. Lawson, Representative of the United States on the Council of ICAO**

Michael A. Lawson is the immediate past President of the Board of Airport Commissioners (BOAC) for Los Angeles World Airports, which oversees Los Angeles International Airport, Los Angeles/Ontario International Airport and Van Nuys Airport. Mr. Lawson served as a member of the BOAC from 2005 – 2013 and as President of the BOAC from December 2010 – August 2013.

While serving as a member of the Board of Airport Commissioners, Mr. Lawson was also a Partner with the law firm of Skadden, Arps, Slate, Meagher & Flom LLP, where he led the Executive Compensation and Employee Benefits Group for the Los Angeles office and the west coast. Mr. Lawson served as an attorney with Skadden for more than 31 years until his retirement in December of 2011. In his role at Skadden, he regularly advised trustees of pension and other employee benefits funds as well as board directors of companies that sponsor pension plans and financial institutions that manage pension plan assets

regarding issues involving fiduciary responsibility and other matters. He also provided advice in the context of merger and acquisition transactions, bankruptcy, litigation and other matters. He has consistently been recognized as one of “America’s Leading Lawyers for Business” by Chambers USA as well as a “Southern California Super Lawyer.”

Mr. Lawson also served as a member of the Board of Trustees of the California State Teachers Retirement System (CALSTRS), which is the second largest retirement system in the United States (appointed by the Governor of California for a term ending December 31, 2013) as well as the Oversight Board for the Community Redevelopment Successor Agency/Los Angeles (appointed by the Mayor of Los Angeles). In addition, he has served as a Trustee of Morehouse College in Atlanta, GA and Loyola Marymount University of Los Angeles. He was also a board director and former chairman of the Constitutional Rights Foundation, and a board director for the Advancement Project, the Music Center / Performing Arts Center of Los Angeles County, and the Music Center Foundation.

Mr. Lawson holds a BA in Political Science and Economics from LMU, Class of 1975 and a JD from Harvard Law School, Class of 1978. In 2010, he was the recipient of the Strickland Excellence Award from the African American Alumni Association (AAAA).



### **Ms. Jane HUPE, Deputy Director, Environment, Air Transport Bureau (ATB), ICAO**

Jane Hupe is Deputy Director, Environment, in ICAO’s Air Transport Bureau, and the Secretary of the Committee on Aviation Environmental Protection (CAEP). Ms. Hupe is responsible for the environmental programme of ICAO and has been at the forefront of ICAO’s efforts to define and promote policies and standards for an environmentally sustainable aviation. Her responsibilities entail directing ICAO environmental activities, including managing the CAEP, advising the ICAO Council on matters related to aviation and the environment, including the establishment of aviation environmental Standards, guidance and policies, and coordinating all activities in the field of aviation and the environment with other International Organizations. Jane contributed to various IPCC Reports on aviation related measures, including the 2007 IPCC Fourth Assessment Report and was the lead author of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. For her work, Jane received a certificate acknowledging her contribution to the award of the 2007 Nobel Peace Prize to the IPCC. Prior to joining

ICAO, Jane served as advisor on environmental matters to the Brazilian Aviation Authorities for 15 years. Jane has a Master’s degree in Aviation from the École Nationale de L’ Aviation Civile (ENAC), Toulouse, France, and many other post-graduate degrees, including in environmental auditing.



## SESSION I – Partnerships to advance the Scientific Understanding of Aviation and Climate Change



**Mr. Gregg G. Fleming, Director of Policy, Planning, and Environment, Volpe, U.S. Department of Transportation**

As director of Policy, Planning, and Environment, Gregg Fleming has over 27 years of experience in all aspects of transportation-related acoustics, air quality, and climate issues. He has guided the technical work of numerous multifaceted teams on projects supporting all levels of government, industry, and academia, including the International Civil Aviation Organization, Federal Aviation Administration (FAA), Federal Highway Administration, National Park Service, National Aeronautics

and Space Administration, Environmental Protection Agency, and National Academy of Sciences.

Fleming is responsible for the design, development, and deployment of internationally recognized environmental analysis tools, including FAA's Aviation Environmental Design Tool (AEDT), FAA's Integrated Noise Model (INM), FAA's System for Assessing Aviation's Global Emissions (SAGE), and FHWA's Traffic Noise Model (TNM). The FAA tools are used for establishing national and international policies pertaining to aviation and the environment, including noise and environmental stringencies and domestic analyses in support of the Next Generation Air Transportation System (NextGen). FHWA's TNM is used for designing highway noise barriers and informing the federal distribution of noise mitigation funds related to highway noise barrier construction.

Fleming is also responsible for evaluating, establishing, and maintaining standardized procedures for national and international aircraft noise certification. Most recently, he has been working with industry and academia on projects related to alternative fuels, with particular focus on approaches to achieving carbon-neutral growth. Under Fleming's direction, the Center for Policy, Planning, and Environment maintains an extensive laboratory of environmental measurement and monitoring instrumentation, including a quick-response capability to support all aspects of transportation-related environmental measurements.

Fleming currently co-chairs the International Civil Aviation Organization's (ICAO) Modeling and Databases Group (MDG) and represents FAA at the United Nations Framework Convention on Climate Change. He is chairman emeritus of the Transportation Research Board's Committee for Transportation Related Noise and Vibration and is active in the Society of Automotive Engineers, as well as numerous other technical organizations.

Fleming has co-authored numerous peer-reviewed journal articles and has participated substantially in the development of national and international standards on technical issues pertaining to acoustics, air quality, and climate change.



**Dr. David W. Fahey, Director of the Chemical Sciences Division NOAA's Earth System Research Laboratory**

Dr. David W. Fahey is Director of the Chemical Sciences Division NOAA's Earth System Research Laboratory in Boulder, Colorado, USA. He joined the Laboratory as a research physicist after receiving advanced degrees in physics from the University of Wisconsin and the University of Missouri. The Division's mission is to advance scientific understanding of three major environmental and societal issues of our time, namely, climate change, air quality and the stratospheric ozone layer, through research on the chemical and physical processes that affect Earth's atmospheric composition. His personal research interests are measurements of trace gases and aerosols in the troposphere and lower stratosphere using instruments on board research aircraft. His current projects address water vapor in the lower stratosphere and the role of black carbon

aerosol in climate. Dr. Fahey has served as a Principal Investigator and Project Scientist for a number of airborne sampling missions with NASA's research manned and unmanned aircraft and as a participant in several international scientific assessments of ozone depletion and climate. He is an author of the 2007 climate science assessment of the Intergovernmental Panel on Climate Change (IPCC), which shared the 2007 Nobel Peace Prize, and of the 1999 IPCC Special Report on Aviation and Climate. He has received the U. S. Department of Commerce Silver and Bronze Medals for Meritorious Federal Service, the American Meteorological Society Henry G. Houghton Award, and is a Fellow of the American Geophysical Union.



## SESSION I – Partnerships to advance the Scientific Understanding of Aviation and Climate Change



**Mr. Kiyoto Tanabe, Head, Technical Support Unit for IPCC TF**

Majored in meteorology in the Graduate School of Tokyo University and got a master degree of science in 1993. After working at a private consulting company particularly for compilation of national GHG inventory of Japan for several years, joined in the Technical Support Unit of the IPCC Task Force on National Greenhouse Gas Inventories (IPCC TFI TSU) as a Programme Officer in 1999. Engaged in various international activities including development of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories, review of national GHG inventories under the UNFCCC and the Kyoto Protocol, work as a member of Consultative Group of Experts on National Communications from Parties not included in Annex I to the UNFCCC (CGE), etc. Currently, Head of the IPCC TFI TSU.



**Mr. Hebert Puempel, Officer in Charge, Strategic Development, Met Department, Austrocontrol**

- Born: 14 Nov 1951 in Innsbruck, Austria
- University: University of Innsbruck, Studies in Theoretical Physics, Dynamic Meteorology, Spanish Translation
- Working Languages English, French, German, Spanish, Italian
- Ph.D. in Meteorology and Physics obtained in 1978, Thesis on Isentropic Analyses of detailed atmospheric structure over Alpine topography
- Position as Senior Analyst in the Operations Department of the European Centre for Medium

Range Weather Forecasts, Reading, UK ,1978-1985

- Member of the Commission for Aeronautical Meteorology, WMO, since 1990, holding several positions as Chair of OPAGS and Expert Teams
- WMO representative , Committee on Aviation Environmental Protection, ICAO, since 2000
- Head of western region, Austrocontrol Aviation Met Service, 1991 – 2005
- Center Director for the Mesoscale Alpine Programme, 1998-1999
- Lecturer, Aviation Meteorology, University of Innsbruck, 2001-2006
- CEO of “Meteoserve”, the commercial branch of Austrocontrol Aviation Met Service 2005-2006
- Chief of Aeronautical Meteorology Division, WMO, 2006 -2013
- Officer in Charge, Strategic Development, Austrocontrol Meteorology Dept. from Jan 2014
- Aviation Affairs Manager, EUMETNET, since Jan 2014
- Chair, WMO-CAeM Expert Team, Aviation , Science and Climate
- Member, ICAO-CAEP Implementation and Science Group



**Mr. Guy Gratton, Head of Airborne Science and Technology, UK's National Centre for Atmospheric Science**

Dr. Guy Gratton is Head of Airborne Science and Technology at the UK's National Centre for Atmospheric Science. Prior to that he has been head of the Facility for Airborne Atmospheric Measurements, a lecturer in Aerospace Engineering at Brunel University London, Chief Technical Officer to the British Microlight Aircraft Association, and a Flight Test Engineer for the UK Ministry of Defence. He is a Fellow of the Royal Aeronautical Society and a Member of both the Society of Flight Test Engineers, and the Society of Experimental Test Pilots. Holding a PhD in airworthiness, and a CPL for aeroplanes, Dr. Gratton has flown as pilot in command of 71 aircraft types, and crew on 105 types as well as having written two books and numerous research papers on aviation technical subjects. He has also appeared in several aviation safety documentaries for Discovery and Smithsonian and was mission scientist on board the first scientific flights to investigate the European volcanic ash cloud in 2010.



## SESSION I – Partnerships to advance the Scientific Understanding of Aviation and Climate Change



**Mr. Neil Dickson, Environment Officer (Noise), Environment, Air Transport Bureau (ATB), ICAO**

Neil Dickson is an Environmental Officer at ICAO and is responsible for all aircraft technology related issues regarding aircraft noise and emissions. This involves managing and coordinating the development, review and update of ICAO Annex 16 Standards and Recommended Practices. He performs the role of Secretary to working groups on aircraft noise (WG1) and emissions (WG3) under the Committee on Aviation Environmental Protection (CAEP). Neil is an Aeronautical Engineer and previously worked for QinetiQ and AEA Technology in the UK. He worked on civil and military aircraft performance projects, including civil aircraft technology assessments, studies into aircraft NO<sub>x</sub> reduction and on the development of the ICAO aircraft CO<sub>2</sub> Standard. Neil also has a Ph.D in Atmospheric Chemistry from the University of Cambridge, which focused on the formation of contrails and civil aviation induced cirrus clouds.

## SESSION II - Partnerships in design and technology throughout the aircraft Life-cycle



**MODERATOR: Mr. Olivier Caron, Representative of France on the Council of ICAO**

Mr. Olivier CARON has served in the French foreign service for thirty years. Prior to holding the position of French representative to ICAO Council since September 2013, he was France's ambassador to Singapore. He also served as Head of Strategy of the French Atomic Energy and Alternative Energies Commission, as well as Governor for France on the board of the International Atomic Energy Agency. He also served the French Prime Minister as advisor for strategic affairs, and held the political-military desk at the French Embassy in Washington, and held the position of director for nuclear and missile non-proliferation in the French foreign ministry, where he was in particular involved in NPT Review Conferences. As desk officer in the foreign ministry, he participated in the drafting of the Convention on the Prohibition of Chemical Weapons then served as French representative to the Organization for the Prohibition of Chemical Weapons Preparatory Commission, and was involved in the negotiation of the Treaty on Conventional Forces in Europe. At the outset of his career, he was liaison officer for France to the Organization of African Unity while posted to the French Embassy in Ethiopia.

A graduate of the Ecole Nationale d'Administration in Paris, he holds a Master in Political Science from the Institut d'Etudes Politiques de Paris and a Bachelor of Law from Paris University. He lectured at the Institut des Hautes Etudes de la Défense Nationale in Paris.



## SESSION II - Partnerships in design and technology throughout the aircraft Life-cycle



**Dr. Fayette Collier, Project Manager, Environmentally Responsible Aviation, NASA**

Dr. Collier is currently the Project Manager of the Environmentally Responsible Aviation Project within NASA's Integrated System Research Program.

In this capacity, he directs the planning and execution of NASA's integrated system research project focused on the subsonic transport sector, working in partnership with Industry, FAA, AFRL and other government agencies. The technology development project is focused on research, development and integration of engine and airframe technologies that will enable dramatic improvements in noise, emissions, and performance characteristics of future subsonic aircraft operating in the air transportation system. ERA is currently well into Phase II, where 8 Integrated Technology Demonstrations are underway. The six-year, \$420M project will conclude at the end 2015.

Dr. Collier is a graduate of Virginia Tech (Aerospace Engineering, B.S., 1981, M.S., 1982, Ph.D., 1988) and the Massachusetts Institute of Technology (M.B.A., 1997) where he participated as a NASA Sloan Fellow. He serves on numerous committees for the Agency, including the AIAA Honors and Awards Committee, the AIAA International Program Committee, and the AFRL Fixed Wing Executive Council, and he was a contributor to the development of the National R & D Plan for Aeronautics. Dr. Collier is an Associate Fellow of the AIAA.

**Ms. Kahina Oudjehani, Ecodesign Lead, Product Development Engineering, Aerospace, Bombardier**



Kahina Oudjehani received a Master's degree (M.A.Sc.) in Chemical Engineering from École Polytechnique de Montréal in 2001 and a Bachelor's degree in the same field in 1997. She has 15 years of cumulative experience in different areas of environmental management (research, soil remediation, telecommunication, consulting and aerospace).

Kahina joined Bombardier Aerospace in 2008 as an Environmental Specialist. She started the Design for Environment journey with the C Series aircraft program and has successfully influenced employees and suppliers to embrace Bombardier's environmental strategy.

Early in 2011, Kahina was promoted to the position of EcoDesign Lead for the entire company. She is responsible, along with her team, for integrating environmental concerns in the product design, and the production of environmental product declarations, for all new aircraft. In 2013 and 2014, the team won two awards recognizing Bombardier's excellence in its corporate responsibility and EcoDesign approach.

Kahina Oudjehani is also a board member of the Aircraft Fleet Recycling Association (AFRA) that promotes the Best Management Practices for improving industry safety, environmental responsibility, and sustainability.



**Mr. Sean Newsum, Director, Environmental Strategy, Boeing Commercial Airplanes**

Sean Newsum, director of Environmental Strategy at Boeing Commercial Airplanes, leads a team that addresses key industry-wide environmental issues, such as aircraft and community noise reduction, operational efficiency and sustainable biofuel development. On those initiatives, Newsum is responsible for developing a global strategy and plan to ensure that Commercial Airplanes' products and services are aligned with the company's environmental performance objectives.

He has lead responsibilities for representing Boeing with key industry associations and bodies including the International Civil Aerospace Organization's Committee on Aviation Environmental Protection (CAEP).

Prior to his current assignment, Newsum held positions at Commercial Airplanes with increasing responsibility in program management, marketing and business development. He also led key initiatives in

information services-related businesses including Airplane Health Management, Connexion by Boeing and Electronic Flight Bag. He began his career at Boeing working in Noise Engineering on the 737, 757 and 777 programs.

A native of Washington State, Sean has a Bachelor of Science degree in mechanical engineering and a Master's degree in business administration from the University of Washington.



## SESSION II - Partnerships in design and technology throughout the aircraft Life-cycle



**Mr. Olivier Husse, Environment Policy Director, Airbus**

Olivier Husse is currently the vice chairman of the Environment Committee (ANEEC) of the International Coordinating Council of Aerospace Industries Associations (ICCAIA). In this capacity, he represents aircraft and engine manufacturers in various policy arenas and assist in the development of policy measures to control aircraft noise and emissions from aviation. He reports on environmental issues of significance to the aviation industry stakeholders.

Olivier Husse is currently working at Airbus S.A.S. Engineering and is in charge of environmental policy and strategy. Over 10 years, he travelled all around the world bringing the Airbus expertise in aircraft dispatch, operations and aircraft noise and performance to Airbus customers. He was a qualified performance instructor. He joined Airbus in 1998 as a flight operations engineer at the Airbus Customer Services. He

studied in France and holds an engineering degree from ENSICA, a top French Aeronautical Engineering School.

Specialties: Flight Operations and aircraft performance, fuel efficiency, aircraft / engine noise and emissions, aviation local air quality and climate change, standardization and regulations.



**Mr. Derk-Jan van Heerden, President of the Board, AFRA**

Derk-Jan (DJ) van Heerden's complete history in the aviation sector has been around end-of-life aircraft. He graduated on this subject in 2005 from the Delft University of Technology, the Netherlands. For this work he was awarded the Best Graduate Award from the Dutch Royal Aeronautical Society. After a short period with KLM Engineering and Maintenance, where he managed the disassembly of a Boeing 747, he started AELS. In 2012 he was listed on Aviation Week & Space Technology "40 under forty". Since 2010 he is board member of the AFRA organization of which he became president in 2015.

Today, Derk-Jan and his team are assisting aircraft owners all over the world with their end-of-life solutions. AELS executes the disassembly and dismantling of aircraft for high profile clients, such as KLM, TNT, EADS

EFW and Iberia. Part of the solution AELS offers is assisting in all activities required to re-introduce the parts in the aviation sector, such as logistics, marketing and sales. AELS provided a sustainable and green solution for more than 50 aircraft. Recycling of aerospace materials is also offered to MRO and (suppliers to) OEM companies. AELS holds industry accreditation for all 3 services, AFRA accreditation for aircraft disassembly and material recycling and ASA-100 (FAA AC 00-56A) for component management. Since 2013 AELS also bought 8 aircraft, AELS only invests in Boeing 737 and Airbus A320 family aircraft.



**Ms. Estelle Beaudry, VP Business Development and Environment, Aerocycle**

Estelle Beaudry is a co-founder of Aerocycle, a pioneering company in aircraft dismantling and recycling in Canada. Aerocycle has cemented its leadership role by recovering more than 85% of aircraft in a safe environment. Estelle Beaudry was one of the first in this country to spearhead environmentally responsible dismantling, and has developed stringent criteria to ensure an optimal recovery rate and innovative industrial operations. She holds a Master's degree in Environmental Management and Policy from the International Institute for Industrial Environmental Economics in Sweden and has five years experiences combining environment and aviation. In 2014, Estelle won the award "Young leader of Quebec" in social responsibility for her initiatives in aircraft dismantling and ranked, in 2015, in the top 25

young entrepreneur of Quebec by the journal "Les Affaires", a Canadian business magazine.



## SESSION II - Partnerships in design and technology throughout the aircraft Life-cycle



**Eng. Maryam Al-Balooshi, Environment Manager, General Civil Aviation Authority (GCAA), United Arab Emirates**

Eng. Maryam Al-Balooshi is managing Environment studies of the General Civil Aviation Authority (GCAA) of United Arab Emirates. The General Civil Aviation Authority (GCAA) was established in 1996 by Federal Cabinet Decree (Law 4) to regulate Civil Aviation and provide designated aviation services with emphasis on safety, security, sustainability and to strengthen the aviation industry within the UAE and its upper airspace. During her work she supervised and led the GCAA Sustainability Strategy project which was approved in Jan 2014. She also led the formation of UAE aviation environment policy which was endorsed by all the aviation governments in 2012, also she supervised the drafting and approvals of UAE Aviation Climate Change position document. She was appointed for the second time to chair the environment committee of the Arab civil aviation Commission (ACAC). Eng. Maryam was elected from

2010 to be the regional representative in Committee Civil Aviation Environment Protection (CAEP) which report to International Civil Aviation Organization (ICAO). By 2013 she became UAE member in the same committee (CAEP) Maryam is a permanent member in UAE delegation to United Nations Framework for Climate Change Convention (UNFCCC) - appointed in 2012 to be lead negotiator for sectorial approach, Aviation. In March 2014 Maryam received the Award of Middle East Women Leaders Excellence Award- Women leader in Aviation.

Prior to her appointment as Environmental Manager in the GCAA she held the position of Environment Manager of Dubai Airports Company. During her career in the Dubai Airports Company she structured and drafted the Environment Management Plan for Dubai Airports Operation. Ms. Al-Balooshi holds an Engineering bachelor in Chemical Engineering and a Master Degree in Environmental Science.

## SESSION III - Operational Improvements and Eco-airports



**MODERATOR: Mr. Victor Aguado, Representative of Spain on the Council of ICAO**

Víctor M. Aguado has been the Permanent Representative of Spain on the Council of ICAO since 2008. He served as the 1st Vice-President of the Council, as well as Chairman of the Technical Co-operation Committee, Vice-Chairman of the Joint Finance Committee, and Chairman of the Special Task Force that developed the ICAO Policy on support to the aircraft accident victims and their families. Today he chairs the Air Transport Committee.

Before joining ICAO Mr. Aguado was Director General of EUROCONTROL (2000-2008). Under his lead EUROCONTROL enlarged its membership significantly and successfully implemented important pan-European programs enhancing safety and allowing reductions of air traffic delays and costs. Mr. Aguado signed the first agreement with the EU Commission to launch jointly the Single European Sky and the SESAR Program.

Previously Mr. Aguado was President of the Air Navigation Commission of ICAO for four consecutive terms; where he was instrumental in launching the Universal Safety Audit Program, the Global Safety Plan and the Global Air Navigation Plan.

Mr. Aguado held numerous high-level positions in Spain, including CEO of ISDEFE. He was appointed Director of Cabinet of the Minister of State for Defence, after being Director for Advanced Air Traffic Management Systems in the Transport Ministry. He was member of the Supervisory Boards of AENA International, HISPASAT, ISDEFE and INSA. He was also member of the Board of Governors of the Flight Safety Foundation and member of the European Union's Group of Personalities on Security Research. Mr. Aguado has a Master's Degree in Aeronautical Engineering from U. P. Madrid and a Master of Science Degree in Management from MIT.



### SESSION III - Operational Improvements and Eco-airports



**Mr. Ted Thrasher, Chief, Environmental Standards, Environment, Air Transport Bureau (ATB), ICAO**

Ted Thrasher is Chief of the Environmental Standards section in ICAO's Air Transport Bureau. He leads the analytical and technical work associated with ICAO's Standards on aircraft noise and engine emissions and coordinates related activities for ICAO's Committee on Aviation Environmental Protection (CAEP). He is also responsible for the development of ICAO's guidance material and support tools for the quantification of aviation's impact on the environment. Prior to joining ICAO, Mr. Thrasher was the Director of Simulation, Modelling, and Analysis for the engineering services firm CSSI in Washington, D.C. Mr. Thrasher holds a Bachelor of Science degree in Aviation Engineering from The Ohio State University, a Master of Science degree in Systems Engineering from Johns Hopkins University, and a commercial pilot's license.



**Mr. Daniel Carnelly, Technical Marketing Director, Airbus**

Dan Carnelly is the Airbus Marketing Director responsible for aircraft Environment, working with airlines, media and industry bodies to promote the technical innovations that bring aircraft emissions and noise improvements. Additionally he is working within as a technical advisor to ICCAIA, the manufacturer observer body, as the CO2 Standard is established in ICAO/CAEP Working Group 3. He joined Airbus 17 years ago, holding positions in Customer Services Engineering, A320 Family Product Marketing and within the Business Unit responsible for aircraft sales in Asia. Dan is a visiting Industrial Fellow of the University of Hertfordshire, UK, from where he obtained his Aerospace Engineering degree.



**Mr. Stephen Causby, Project Manager, IATA Environmental Assessment, IATA**

Mr. Causby joined the International Air Transport Association (IATA) in 2012 as the Manager responsible for developing the IATA Environmental Assessment (IEnvA) program for airlines. Before joining IATA, Mr. Causby was the Environmental Advisor for Cobham Aviation Group in Australia, overseeing a diverse range of aviation activities from engineering through to passenger transport. Prior to this, Stephen worked for a number of different airports in Australia overseeing all environmental issues including community consultations on aircraft noise. Stephen has also worked as a noise expert for the Australian Environmental Protection Agency with a focus on aviation policy development.

With a passion for aviation and the environment, Mr. Causby is a member of the ICAO Committee on Aviation Environmental Protection and the Environmental Institute of Australia and New Zealand. In his spare time Mr. Causby is also completing a Master's degree in Environmental Science and Management and hopes to one day complete his private pilot's license.



## SESSION III - Operational Improvements and Eco-airports

### Mr. Xavier Oh, Senior Manager, Environmental Protection, Airports Council International (ACI)



Xavier Oh has been Senior Manager Environmental Protection at ACI since September 2005.

He is the ACI Observer on ICAO's Committee on Aviation Environmental Protection (CAEP) and participates at all levels from the triennial CAEP meetings and Steering Group to the technical working groups on noise, emissions, operations and modelling. He also supports and coordinates airport participation and input on these groups.

As the secretary of ACI's World Environment Standing Committee (WESC), one of his main tasks is developing, coordinating and implementing policy and positions on all issues relating to the environment and airports. Other WESC tasks include supporting environmental training for airports, sharing best practice between airports and working with other aviation industry organizations.

Xavier's background includes mechanical engineering studies in Australia and Canada, working as a consultant in machine and structural dynamics in Australia and Malaysia, and also as an acoustical engineer in New Zealand.

### Dr. Giovanni Falsina, Environment and Airport Safety Manager, Milan Airport



Dr. Giovanni Falsina is responsible for defining the environmental strategies and the environmental management of SEA Milan Airports (where he works since 1989 after experiences in Nestlé and IVECO). He is also responsible for SEA Milan Airports about European research projects and member of the Environmental Strategy Committee of ACI Europe.

### Mr. George Davies, Head of Environment Strategy and Assessment, London Heathrow Airport



George has been with Heathrow since January 2010 in senior environmental management and airport development roles. He is currently leading the environmental strategy for the airport's expansion programme, and subject to UK government support being secured later in 2015 he will be taking forward the Environmental assessment and mitigation of the scheme through to planning consent. He joined the airport following a career working as a HSE consultant for an international aviation systems and services company leading performance improvement projects across Europe, North America and the Far East. He began his career working for the UK environmental regulator the Environment Agency.

### Ms. Rachel Burbidge, Policy Officer: Environment and Climate Change, EUROCONTROL



Rachel Burbidge joined EUROCONTROL in 2005. She has been leading EUROCONTROL's work on climate change adaptation since 2009. She is the Agency's policy officer for international aviation market-based measures for CO2 reduction and a member of the ICAO Global Market Based Measures Technical Task Force, as well as being a member of the CAEP Impacts and Science Group and Airport and Operations Working Group. She also contributes to the SESAR Single European Sky ATM Research Programme, where she leads the environmental risk and regulation work. She has a degree in Environmental Studies and a Masters degree in Sustainable Development.



## SESSION IV - Partnerships to Develop Sustainable Alternative Fuels for Aviation



### **MODERATOR: Mr. Knut Skaar, Representative of Norway on the Council of ICAO**

Mr. Knut Magne Skaar has over 35 years of experience as an executive in Aviation. He started out in the Norwegian Royal Air Force in the Air Defence Operation Center as a 20 year old. Currently he holds the position as Representative for Norway on the Council of ICAO until 2016 and he is also the head of the Permanent Nordic delegation there.

Before coming to ICAO, Mr. Skaar had a long career at Avinor (the service provider in Norway) where his last position was Chief executive ANS. In this capacity he managed the largest division (1070 employees) in the Avinor group, and he had personal contact with senior executives in The European Commission, Eurocontrol, IATA and EASA through his many international engagements.

Mr. Skaar has also held numerous board memberships in organizations like CANSO, Eurocontrol and also in various Nordic collaborations i.e NEFAB and BOREALIS.

Mr. Skaar has an Air Traffic Controller diploma from Bailbrook College, U.K and a Business Economics diploma from the University of Economics in Bergen, Norway. Further, he has taken courses in Business Strategy, Law, Safety Management, Human Relations, and Art History to mention a few.



### **Mr. Pedro Scorza, Head, Renewable Fuels Program, GOL and Director, Aviation Biofuels, Ubrabio**

Pedro Scorza is a Line Captain at GOL Linhas Aéreas Inteligentes and responsible for supporting C-level executives in long term projects like renewable fuel and sustainability initiatives. Since February 2015, he is also a Director of Renewables for Aviation at Ubrabio (União Brasileira de Biodiesel e Bioquerosene).

At GOL, Capt. Scorza has also acted as Operations Control Director, Operations Director and Technical Operations Director, leading areas like crew planning, roster and support, aircraft control, fuel management, flight planning and dispatch, operational engineering, weight and balance, administrative support, continuous improvement, cockpit crew, cabin crew, standards and compliance.

The executive began his professional career in 1989 and has been working at GOL since 2006. Pedro Scorza is graduated in Business Administration from PUC-RS (Catholic University of Rio Grande do Sul, Brazil) and has a Master degree in Management from UFRGS (Federal University of Rio Grande do Sul, Brazil).



### **Mr. Jorin Mamen, Executive Director, Biofuelnet Canada**

Jorin Mamen is the Executive Director of BioFuelNet Canada (BFN), a not-for-profit organization recently awarded \$25M from the Networks of Centres of Excellence program. A Professional Engineer with 9 years of experience in the biofuel industry, Jorin joined BFN after several years with the International Air Transport Association (IATA), where he was responsible for IATA's annual Report on Alternative Fuels and the IATA Guidance Material on Biojet Fuel Management. Previously, Jorin worked as a process engineer in San Francisco and Seattle on biodiesel plant design, permitting, and quality control, and where he contributed to a winning bid for a grant from the California Air Resources Board towards the

construction of a biodiesel production plant. Jorin has a Bachelor's degree in Mechanical Engineering and a Master's in combustion from McGill University.



## SESSION IV - Partnerships to Develop Sustainable Alternative Fuels for Aviation



**Prof. Hiroshi Shibutake, Tokyo University, INAF**

Hiroshi Shibutake is a Project Associate Professor at the Center for Aviation Innovation Research, The University of Tokyo. Before taking up his post at the University in August 2015, he worked in the Civil Aviation Bureau of the Ministry of Land, Infrastructure, Transport and Tourism (MLIT), including as the Coordinator for the development of 4th R/W and international area of Tokyo Int'l Airport, in addition to enhancement of general aviation. Besides his work above, he also worked as the Chief on Tourism in some regions in Japan, as well as the Director of safety management, and crisis control on transportation in the MLIT.



**Dr. Petra Koselka, Senior Advisor, Aviation Operations, Carbon War Room**

Petra joined the Carbon War Room in Spring 2015. Here, she specifically focuses on designing and delivering innovative business solutions in the Aviation space, aimed at driving significant reductions in CO<sub>2</sub>. In this work, she builds off her broad Shell career, extensive networks and solid understanding of the Aviation sector.

In Shell, she has worked in Finance, Oil Supply and Trading, Strategy and Economics in Upstream, the Latin American Business Development team in Gas & Power, and Corporate Strategy. She has set up Shell Ventures, a \$200M venture capital fund aimed at making minority equity investments in early-stage technology companies of interest to Shell. She was also Partner in Shell's in-house strategy consulting unit. From 2005, Petra has led business divisions with substantial profit targets and staff scope. She was responsible for Shell's Bulk Fuels Sales in North West Europe. From 2009-2014, she led Shell's European Aviation business, covering both sales of fuels and lubricants and some 200 airport location operations. She furthermore sat on 4 Supervisory Boards (Greece, Russia, Germany, Norway). Her international career has brought her to live for more than 18 years outside the Netherlands, in London, USA, Latin America and Africa.

Petra obtained an MBA at Harvard Business School in 1994 and graduated Cum Laude from Tilburg University in Economics in 1989.



**Mr. Theye Veen, CFO, SkyNRG**

Drs. Theye Veen is CFO at SkyNRG and was part of the board since the start of the company in 2010. He is co-founder and chairman of the board of the in Sweden based Fly Green Fund.



## SESSION IV - Partnerships to Develop Sustainable Alternative Fuels for Aviation



**Ms. Angela Foster-Rice, Managing Director, Environmental Strategy & Sustainability United Airlines**

Angela Foster-Rice is the managing director of environmental affairs and sustainability for United, where she leads the development of the company's environmental strategy. Foster-Rice and her team are responsible for United's environmental policy, sustainability measures, alternative fuels strategy, and regulatory compliance, with a focus on identifying solutions to reduce United's impact on the environment while striving to improve our business and the communities United serves.

Prior to her current role, Foster-Rice practiced law focusing on environmental, health & safety matters for more than 15 years in private practice and as in-house counsel for United.

She holds a law degree from Northwestern University School of Law and a bachelor's degree in Environmental Studies from Rice University. She is active in aviation trade associations in developing

environmental policies and initiatives and is also an advisory board member for the Illinois Sustainable Technology Center.



**Dr. Gerard Ostheimer, Global Lead, Sustainable Bioenergy High-Impact Opportunity, Sustainable Energy for All (SE4ALL)**

Dr. Ostheimer serves as the Global Lead for the SE4ALL Sustainable Bioenergy High Impact Opportunity. Working with diverse partners he promotes the development and deployment of sustainable bioenergy solutions to help achieve SE4All's goals of increasing energy access and doubling the use of renewable energy.



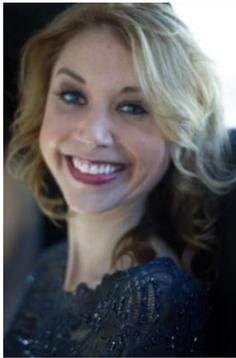
## SESSION V - Carbon Markets



**MODERATOR: Mr. Tee Chiou Ng, Representative of Singapore on the Council of ICAO**

Mr. Tee Chiou Ng has been the Representative of Singapore on the Council of ICAO since 2011. He has been a member of various committees of the ICAO Council, most notably as Chair of the Environment Advisory Group (EAG).

Mr. Ng has a Masters of Business Administration from Nanyang Technological University, Singapore and has been in the aviation industry since 1992. With increasing responsibility, he took on such positions as Airport Manager (Ground Operations), Changi and Seletar Airports, Senior Operations Manager, CAA Singapore and went on to become Director, Air Traffic Services, CAA Singapore.



**Ms. Katie Sullivan, Director, North America, IETA**

Katie serves as IETA's Director of North America and Climate Finance. On behalf of IETA's global multi-sector business membership, Katie leads efforts to inform climate change policy and market design with government and non-government partners across North America. She also manages IETA's growing international work on innovative instruments and mechanisms, capable of leveraging private capital into climate mitigation and resilience activities. Katie's a member of the University of Toronto's Environmental Finance Committee, Ontario Environment Commissioner's Climate Change Advisory Panel, and the new Climate Advisory Group to Ontario's Minister of Environment & Climate Change. Prior to joining IETA, Katie was a Senior Associate at ICF International, where she provided strategic climate and energy advisory services to corporate, government, NGO clients and UN agencies. Katie holds a Masters with Distinction in Environment, Development and Policy from the University of Sussex.



**Mr. Vikram Widge, Head, Climate and Carbon Finance, Climate Change Group, World Bank**

Vikram Widge is Head of Climate and Carbon Finance at the World Bank Group. He leads the external engagement on climate finance and the deployment of innovative market-based solutions to mobilize private capital for low carbon development in emerging markets. He also manages the WBG's carbon finance business with several funds under management and development, innovative results-based financing instruments like the Pilot Auction Facility, the Partnership for Market Readiness supporting countries wanting to put a price on carbon, and the initiative on the next generation of Networked Carbon Markets.

Vikram worked in the private sector for 10 years before joining IFC in 1994. He has extensive experience in supporting and financing clean technologies such as renewable power, waste-to-energy, fuel cells and electric vehicles. He also structured and managed an off-grid solar PV fund for six years. In the past, he has also led IFC's work on climate policy, climate risk and adaptation, and greenhouse gas accounting.

Vikram has a bachelor's degree in engineering from the Indian Institute of Technology in Delhi (1982) and a master's degree in resource economics from the University of Maryland (1986), where he was a research scholar and graduate fellow.



## SESSION V - Carbon Markets



**Ms. Annie Petsonk, International Counsel, Climate and Air, EDF, ICSA, Professor Jacques Papy, UQAM and Jean-Luc Allard, vice-chair of CPEQ's Board of Directors**

Annie Petsonk is International Counsel at the Environmental Defense Fund (EDF), a non-profit, non-governmental organization that links science, economics and law to create innovative, equitable, cost-effective solutions to environmental problems. She previously served in the Executive Office of the President in the Office of the U.S. Trade Representative (USTR), the U.S. Department of Justice, the United Nations Environment Programme (Nairobi), and the private bar.

An internationally recognized expert on climate policy, including options for regulation of aviation emissions, Annie's focus is the design of market-based measures that tap human ingenuity to encourage companies, countries, and communities to protect the environment. She has authored and co-authored more than seventy articles, book chapters, presentations, and papers; worked with governments around

the world on domestic and international climate policy; and testified in the U.S. Congress on market-based climate law and policy, including market-based measures for the aviation sector.

Annie teaches international trade and sustainable development law at George Washington University Law School. She received her J.D. from Harvard Law School, and her B.A. from The Colorado College, which also awarded her an honorary degree.



**Jacques Papy, Professor, Law and Political Science Faculty, Université du Québec à Montréal (UQAM)**

Jacques Papy is a professor at the Law and Political Science Faculty, Université du Québec à Montréal (UQAM), where he teaches business organizations, corporate finance and business law. His current research focuses on the efficiency of rules governing emissions trading. Prior to joining UQAM, Jacques Papy practiced corporate and securities law in two of Canada's leading law firms. He was the Editor-in-chief of the *Revue québécoise de droit international* and a member of the Canadian delegation to the Hague's Special Commission on Jurisdiction and on the Recognition of Foreign Judgments in Civil and Commercial Matters. He is a member of the Québec Bar and holds a LL.D. from Université de Montréal and a LL.M. from McGill University.



**Mr. Jean-Luc Allard, Vice president, SNC-Lavalin Environment inc.**

Mr. Allard is vice-president of the Environment Division and has more than 30 years of experience in the environment field. He acts as a team leader in the noise, air quality control, and climate change groups. He is responsible for products development related to environmental global issues using state-of-the-art technologies. He is also responsible for the development of climate change issues within the company and for our clients.

In recent years, he has been heavily involved in the conception and development of solutions applicable to global issues such as tropospheric ozone, ozone-depleting substances and climate change.

He is also responsible for the development of responses to climate change issues within the company and for our clients. He has been involved in the strategic planning of several industrial sectors with regard to climate change issues and developed an Emissions inventory and management software.

He acts on a regular basis as an expert witness, speaker in environmental forums and as a specialist in public hearing.

Mr. Allard's presentation will address the Environmental Markets Trading Platform (EMTP) developed by the Quebec Business Council on the Environment.



## SESSION V - Carbon Markets



**Mr. Niclas Svenningsen, Manager, Sustainable Development Mechanisms**

Niclas Svenningsen is the Manager for a new initiative in the UNFCCC Secretariat seeking to strengthen the role of CDM under UNFCCC. This includes exploring how existing and new market mechanisms may fit together under the 2015 agreement, and how to preserve and prepare the existing capacity in the CDM infrastructure to take on new roles beyond 2015. It also includes a dedicated effort to support the use of CERs to close the pre-2015 ambition gap, and to facilitate voluntary cancellation of CERs in private and public sectors.



**Mr. Lucas Bobes, Group Environmental Officer, AMADEUS**

Lucas became Amadeus' Group Environmental Officer in 2009. In this position, he is responsible for driving Amadeus Group environmental policy and performance, building and improving the Amadeus operations environmental reporting, analyzing and fostering the environmental benefits of Amadeus solutions and building partnerships with industry stakeholders to address common environmental challenges.

From 2005 to 2009 Lucas worked as Amadeus airline senior account manager, with responsibility over a portfolio of more than 40 airlines and a revenue budget in excess of 100 M EUR.

Lucas joined Amadeus in 1998 as market manager, defining and driving the implementation of marketing plans and budgets for western European markets.

In addition to Amadeus, Lucas also worked for American Express and for Dun & Bradstreet, where he led the development, commercialization and implementation of credit scoring models in Dun & Bradstreet Spain.

A Spanish national, his education includes a Master of Science on environmental engineering from Stockholm's Royal Institute of Technology and an economics degree from the Complutense University of Madrid.



**Mr. Rene Velasquez, Global Head, Voluntary Carbon Market, Carbon Trade Exchange**

Rene has over eight years of experience in the voluntary carbon markets. He has worked for some of the leading global carbon management firms in a senior capacity, having most recently acted as country head in both Australia and the USA at First Climate. He is responsible for our global sales team and advises key clients on the development and implementation of carbon offset strategies, as well as managing key client relationships. Rene obtained a Master of Commercial Law from The University of Melbourne, from which he also graduated with an undergraduate double degree in Science (Honours) and Arts.



## SESSION V - Carbon Markets



**Ms. Andreia Afonso, Environment Engineer, TAP**

Andreia Afonso works as an Environmental Engineer at TAP Portugal. Andreia has joined TAP Portugal in 2006 and her main responsibilities and involvement has been with TAP's Carbon Offset program monitoring since 2009. Also, she has been supporting Environmental strategic guidelines proposals to TAP Group, analyzing TAP's environmental performance through greenhouse gas emissions inventories (Greenhouse Gas Protocol and Global Reporting Initiative methodology) ensure legal compliance through periodic reports to the Portuguese Environmental Agency.

## SESSION VI - Facilitating Financing for Aviation Sustainable Environmental Initiatives



**MODERATOR: Mr. Hazim A. Abudaowd, Representative of Saudi Arabia on the Council of ICAO**

Mr. Abudaowd is the Permanent Representative of Saudi Arabia on the Council of the International Civil Aviation Organization (ICAO) since May 2014.

Mr. Abudaowd holds a master in Business Administration (MBA) from France and a Master of Science Degree in Electrical Engineering, Telecommunications from United Kingdom, and a Bachelor Degree in Electrical Engineering from the United States of America.

Through out his career, Mr. Abudaowd held several positions such as the Director General of the System Engineering Directorate, Manger for the Communication Branch, and Manager for the Environmental

Engineering Branch.

Mr. Abudaowd Represented Kingdom of Saudi Arabia on multiple ICAO Committees/Panels. To name few: Future Air Navigation System (FANS II), Aeronautical Mobile Satellite System (AMSS), Aeronautical Mobile Communication (AMCP), and Automatic Dependent Surveillance (ADS-B).



**Mr. Tetsuya Tanaka, Chief, Climate Change, Environment, Air Transport Bureau (ATB), ICAO**

Tetsuya Tanaka is Chief, Climate Change Section in Environment, Air Transport Bureau of International Civil Aviation Organization (ICAO). He leads and manages work programmes related to policy matters on international aviation and climate change, including the development of a global market-based measure for international aviation, development and deployment of sustainable alternative fuels for aviation, and provision of capacity building and other assistance to support Member States' action plans on aviation CO2 emissions reduction activities. He also takes lead in activities related to ICAO's cooperation with other UN bodies, such as the UNFCCC process. Before joining the ICAO Secretariat in 2008, Tanaka worked for the Civil Aviation Authority of Japan and dealt with a variety of aviation issues, including the environment, airworthiness and bilateral air service agreements.



## SESSION VI - Facilitating Financing for Aviation Sustainable Environmental Initiatives



**Ms. Rasa Ščeponavičiūtė, International Carbon Market, Aviation and Maritime Directorate-General for Climate Action, European Commission**

Rasa Ščeponavičiūtė works for the European Commission, the Directorate General for Climate Action. She has been working in the international aviation and Climate Change issues for more than six years. Her main responsibilities include coordination of the engagement of the European Commission and the EU Member States in the ICAO process on the development of the global Market-based Measure. In 2012 Ms. Ščeponavičiūtė has been seconded to ICAO for a period of 18 month to work on the development of the MBMs.

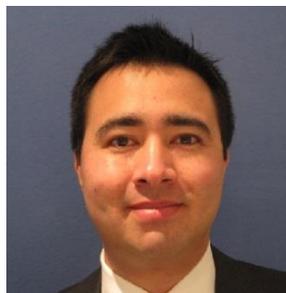
Before joining the European Commission in 2008 she has been working on the implementation of the European Union environmental legislation in Lithuania. Ms. Ščeponavičiūtė holds Master of Science Degree in Environmental Planning, she graduated from the International University of Turku in Finland.



**Mr. Arnaldo Vieira de Carvalho, Lead Sustainable Energy Specialist, Energy Division, Inter-American Development Bank (IDB)**

Mr. Vieira de Carvalho has been working for the IDB since 1997 on financing and implementing sustainable energy projects throughout Latin America and the Caribbean (LAC), especially on energy access, energy efficiency, renewable energy and biofuels. He has been responsible for several emblematic IDB initiatives, such as the IDEAS energy innovation contest, the SE4ALL Americas Hub and the LAC Sustainable Biofuels for Aviation Program. Mr. Vieira de Carvalho was Director of the Latin American Energy Organization - OLADE in Quito, Ecuador and General Manager for Power Generation and New Energy Technologies of Promon Engenharia, a leading Brazilian consulting firm in Rio de Janeiro and São Paulo, acting internationally, where

he worked for more than 15 years. He has also worked as independent energy consultant in several Latin American countries for power utilities and international organizations such as The World Bank, the Organization of American States – OAS and several UN agencies. Mr. Vieira de Carvalho holds a Mechanical Engineering degree from the Aeronautical Institute of Technology – ITA in São José dos Campos, Brazil and a M.S. degree in energy from Kansas State University – KSU in Manhattan, Kansas. He published more than a hundred articles, technical papers and books in his field of expertise.



**Mr. Robin Rix, United Nations Framework Convention on Climate Change (UNFCCC)**

Robin Rix has served with the Secretariat of the United Nations Framework Convention on Climate Change (UNFCCC) since 2009. His duties include supporting the intergovernmental negotiations as lead officer on the future role and connectivity of global carbon pricing mechanisms. He also works on initiatives to strengthen and streamline market-based mechanisms, including the Clean Development Mechanism (CDM). Prior to joining the United Nations, he was a lawyer in the environment and climate change practice group at Clifford Chance LLP in London. He holds law and undergraduate degrees from the University of Toronto and a master's degree in political science from the University of Oxford.



## SESSION VII - "No country left behind" - States' Action Plans and Capacity Building



### **MODERATOR: Ms. Mercy Awori, Representative of Kenya on the Council of ICAO**

Mercy Beatrice Awori is the Representative of Kenya and The Eastern Region on the Council of the International Civil Aviation Organization (ICAO). She is the Secretary for the AFI Group on the Council. She is the first Women in Sub Saharan Africa to serve as a Council Member.

Prior to her Appointment on the Council she was the Head of Air Transport at the Kenya Civil Aviation Authority (KCAA). She also sat on the KCAA Board representing the Permanent Secretary Ministry of Transport before joining the Authority.

Mercy Awori holds a Master of Science in Air Transport Management from Cranfield University and is an alumna of Leiden University and University of Nairobi. In addition she has several professional qualifications in aviation amongst others from Maastricht School of Management.



### **Ms. Blandine Ferrier, Associate Environment Officer, Air Transport Bureau (ATB), ICAO**

Blandine Ferrier is an associate environmental officer at ICAO. She is the project coordinator for the States Action Plan activities. In this capacity, she leads the development of guidance and the website for the preparation of the action plans, regional training of States, and the provision of individual assistance and follow-up. In addition, she is responsible for the organization of the ICAO environmental events, including the Assistance for Action – Aviation and Climate Change seminar, and for the publication of the ICAO Environmental Reports.

Prior to joining ICAO, Ms. Ferrier was Environmental and Quality Manager at Liege Airport in Belgium where she was responsible for airport environmental and quality services.

Ms. Ferrier holds a Master's Degree in Environmental Law and Regional Development and a postgraduate degree in Environmental Pollution and Nuisances, both from Strasbourg University.



### **Mr. Ricardo Henry, Manager Air Transport and Economic Regulations, Trinidad and Tobago Civil Aviation Authority**

Mr. Ricardo Henry is the Manager Air Transport Economic Regulations at the Trinidad and Tobago Civil Aviation Authority (TTCAA) and has held this post for the past 4 years. This department is responsible for seven critical aspects of the local aviation industry: Commercial Air Transport Licensing, Consumer Protection, Statistics, Oversight of ANS Rates and Charges, Air Services Agreements, Economic Reviews and Economic Oversight of Airlines and Airports.

In his present post within the TTCAA, Mr. Henry serves as a committee member on the nation's Standing Negotiating Committee on Air Services Agreements.

He was previously an Air Traffic Controller attached to the Air Navigation Services Division of the TTCAA for 15 years and was rated in Aerodrome, Approach, Area and Radar Control and also served as an On-the-job Training Instructor and examiner. Mr. Henry was also the secretary of the board of the Trinidad and Tobago Air Traffic Controllers' Association for 12 consecutive years.

Mr. Henry is also a part-time lecturer who has lectured at the University of the West Indies and other tertiary Institutes in Management and Project Management. He and Ms. Hema Dass, have spearheaded the development of Trinidad and Tobago's action plan on emissions reduction since October 2012 as the nation's Focal Points.

Mr. Henry holds a MBA from the Heriot-Watt University and a BSc. in Management Studies from the University of the West Indies for which he graduated with first class honours. He is also a certified Project Management Professional registered with the Project Management Institute.



## SESSION VII - "No country left behind" - States' Action Plans and Capacity Building



**Mr. Englebert Zoa Etundi, Representative of Cameroon on the Council of ICAO**

With over 27 years of experience in the aviation field, Mr. Zoa Etundi prior of being nominated in 2008 as Representative of Cameroon on the ICAO Council, served ICAO as Seconded Staff for the Universal Safety Oversight Program Audit (USOAP) where he led the development and preparation of draft safety oversight reports. During this period he audited several States, such as: Republic of Senegal, Central African Republic, Gabon, Democratic Republic of Congo, Sudan, Swaziland, Ethiopia, Rwanda, and Angola.

He is the current Vice President of the ICAO Council and the Vice-Chairperson of the AFI Plan.

He has been the Chairperson of ICAO Air Transport Committee between September 2011 and September 2012. He was the AFI Group Coordinator in 2013.

Prior to this assignment Mr. Zoa Etundi served the Civil Aviation Authority of Cameroon as Sub Director of air Navigation services ( between 2001 – 2003), as Assistant Inspector general for Air navigation Services, Training center coordinator( between 2003 -2008) and as well as World Bank Regional Aviation Safety Expert ( between 2004 – 2008).

In addition Mr. Zoa Etundi participated in numerous technical groups, mentioning ICAO (WF) working group on civil aviation frequency spectrum, CNS working group – APIRG, Audit Team member of USOAP, Vice Chairperson of APIRG MET Sub -group.

He is a holder of MSc. Degree from University of Surrey in UK and a Ph.D researcher candidate at the University of Quebec in Montreal (UQAM)

Since October 2013, Mr. Zoa Etundi represents the Economic Community of Central Africa States (Angola, Burundi, Cameroon, Central African Republic, Chad, Congo, DR Congo, Equatorial Guinea, Gabon and Sao Tome and Principe) as Regional Representative.



**Amb. Moumouni Dieguimde, Representative of Burkina Faso on the Council of ICAO**

At University level, he studied for three years Mathematics, Physics and Technology at the National Universities of both Côte d'Ivoire and ex Upper Volta, now Burkina Faso. Thereafter, he moved to the United States of America (USA), where he permanently remained for almost 14 years. While in the US, he obtained with highest honours (suma cum laude) a Bachelor of Science (BS) Degree in Airport Management from the Vaughn College of Aeronautics & Technology of LaGuardia, New York, and a Masters of Art (MA) with thesis in International Relations from the City College, The City University of New York.

At the Professional level, he started with the aviation industry in 1984 as a space controller at Air Afrique and was successively promoted inspector, assistant manager, and then manager of sales, public relations and airport operations. His tenure in the civil aviation industry includes working also in the US, precisely in insurance and buy & sale of aircraft.

In January of 2004 he was offered a position in the Cabinet of the Director General of the Agency for Air Navigation Safety in Africa & Madagascar (ASECNA), in Dakar, Senegal. ASECNA is a 1949 multinational of 17 African States and France, to oversee the safety of air navigation in 16.1 million square kilometers of African airspace, roughly half of the African Continent's airspace, and one and half times European airspace. In ASECNA, he was appointed Head of the Bureau of External & Diplomatic Relations, which he combined with the Presidency of the Association of Expatriates, a key branch of the workers' Union.

In 2008, following the results of the worldwide audits of State-Members by ICAO, the Government of Burkina Faso called on him to lead the Country's civil aviation and meteorological Authority. By end of 2009, Burkina Faso quickly rose to count among the very few well-performing countries in the Continent. As Director General, he also played key roles in the following activities:

- The pacification and the revision of the constitution of ASECNA; an Agency that was on the brink of splitting apart due to a crisis, which started in November 2007;
- The election of Burkina Faso on the Council of ICAO during its 37th Assemble in October 2010, first time in the history of this State.

Following that event to date, it pleased the Government of Burkina Faso to nominate him in his actual capacity.



## SESSION VII - "No country left behind" - States' Action Plans and Capacity Building



**Ms. Althea Roper, Manager Aviation Statistics, Airfares and Rates, Civil Aviation Authority, Jamaica**

Althea has served in Managerial positions at the Jamaica Civil Aviation Authority for the past 20 years. In her JCAA capacity she is responsible for the provision of Jamaica's Statistics to ICAO. She has been actively involved at the international level since 2008 and 2014 respectively, as a member of the Caribbean and South America Traffic Forecasting Group (CAR/SAM TFG) and the Aviation Data Analysis Panel (ADAP).

In 2011, Althea began work in the area of Environmental Protection and attended the first Environment meeting in Montreal in 2012. She was appointed Focal Point in 2014 and has represented ICAO at several world and regional conferences. She works actively in partnership with ICAO, the Jamaican aviation industry and regionally as a member of the Caribbean Aviation Safety and Security Oversight

System's (CASSOS) Environment Standing Committee.

An educator by profession, Althea also worked in the Financial Sector as a Government Bond Trader having received the Jamaican Securities Course certification. She holds a BSc. Management Studies and MSc. Computer-Based Management Systems from the University of the West Indies, Jamaica and Teaching Certificate from the Mico Teachers' College Jamaica.

## Closing Panel – Multiplying Environmental Action



**Ms. Lourdes Maurice, Executive Director of the Office of Environment and Energy, FAA**

Dr. Lourdes Maurice is the Executive Director for the Office of Environment and Energy (AEE-1) in the Federal Aviation Administration's Office of Environment and Energy. She leads FAA's environmental research and advanced technology development programs. She has recently served as Chief Scientific and Technical Advisor and previously as Acting Deputy Assistant Administrator for Policy, Planning and Environment and Acting Director of the Office of Environment and Energy. She received her B.Sc. in Chemical Engineering and M.Sc. in Aerospace Engineering from the University of Dayton and her Ph.D. in

Mechanical Engineering from the University of London's Imperial College at London. Lourdes has served as a Lead Author for the Intergovernmental Panel on Climate Change. She is a 2003 Fellow of the American of Institute of Aeronautics and Astronautics.



**Mr. Kai-Uwe Barani Schmidt, Senior Climate Change Advisor, Secretary General's Office, United Nations**

Currently coordinating the work on the Climate Change Action Agenda (LPAA) in the climate change support team of the Secretary General of the United Nations, Mr Kai-Uwe Schmidt has more than 20 years of international and senior level working experience on international environmental treaties including at the Executive Office of the Secretary General of the United Nations, the secretariat to the United Nations Framework Convention on Climate Change and the World Bank Institute. His experience covers public policy analysis (environmental policy, climate change policy, development policy), policy

design, regulatory design and implementation of global emissions trading and offset instruments, coordinating work for high level events (UN 2009 CC summit), navigating the interface of international negotiations with private sector, intergovernmental and non-governmental organisations focusing on private sector engagement in climate change and development action at international, national, sub-national, city and company/NGO levels as well as capacity building and structured learning activities in developing countries.



## Closing Panel – Multiplying Environmental Action



**Mr. Bruce Parry, Head of Sustainability, Product Development Engineering, Bombardier**

As Head of Sustainability for Product Development Engineering, Bruce Parry leads all aspects of sustainability within the product development process and across the engineering business. Following the reorganization of Bombardier Aerospace, he also leads sustainability across the new Bombardier Business segments, which includes ensuring that all Bombardier incorporates sustainability within its day-to-day processes and business behaviours. Bruce joined Bombardier Aerospace in 2007 as an Engineering Specialist – Design for Environment (DfE) within Core Engineering. The DfE discipline supported the Bombardier desire to expand environmental improvements to all aspects of the “product” life-cycle and reflect the commitments Bombardier made towards its expanding sustainability mandate.

Bruce is very actively involved in wider industry activities, including contributions to the IATA Technology Roadmap and contributed to a similar report entitled the Canadian Aviation Environmental Technology Road Map (CAETRM) for the Canadian aerospace industry. He is a board member of the Air Transport Action Group (ATAG), a co-founder of the International Aviation Environmental Group (IAEG), and Chair of the Environment Committee for the Association of Aerospace Industries of Canada (AIAC).

Bruce sits on the environment committees of both the General Aviation Manufacturers Association (GAMA) and the International Business Aviation Council (IBAC) and is a member of the Canadian Green Aviation Research and Development Network (GARDN) Scientific Committee, bringing together R&D expertise in the Canadian aviation sector. He represents Bombardier within the EXCEL Partnership, a gathering of organisations across a diverse set of business sectors committed to the overall improvement of environment and sustainability across Canada through best practice sharing.

He also contributed technical content to the Business Aviation Commitment on Climate Change, a landmark document in business aviation co-published by GAMA and IBAC in November 2009 as a clear climate change position for the whole business aviation community.

With 15 years experience in the aviation environment and sustainability sectors, Bruce holds a BSc. (Hons) in Environmental Quality and Resource Management from the University of the West of England, Bristol in the United Kingdom.



**Mr. Brice Lalonde, Special Advisor on Sustainable Development to the UN Global Compact**

Mr. Brice Lalonde is Special Advisor on Sustainable development to the UN Global Compact. As his most recent achievement, he founded and chaired the first Business and Climate Summit, prior to the COP21 in May 2015 Paris (6 million companies represented, a dialogue of more than 1600 policy-makers and business representatives each day). Prior to this, Mr. Lalonde had been UN Executive Coordinator for the Rio+20 conference during two years, from the preparation of the conference to the beginning of its implementation. Mr. Lalonde is a former French Ambassador for climate change international negotiations.

Prior to this, he served as French Minister for the Environment from 1988 to 1992, Chairman of the Round Table for Sustainable Development at the Organization for Economic Cooperation and Development (OECD), and Senior Advisor for the Environment to the French Government. In addition, he held the position of Director of the Paris office of the Institute for a European Environment Policy. Mr. Lalonde graduated from the Sorbonne University with a degree in classics and law.

As French Minister for the Environment, he was very strongly involved in global issues and contributed to the Basel Convention; Madrid Treaty on Antarctica; Whale Sanctuary; Ban on Ivory Trade; management of the Rio Climate Convention; world NGO meeting before Rio; creation of the GEF; contribution to the European Union Environmental Policy (water, waste, nature protection, lead-free gasoline, catalytic converters). At the national level included: setting up French laws on water and waste, coastline and mountain conservation regulations, setting up the French Agency for the Environment and Energy Efficiency (the ADEME), among others.