



AVIATION AND CARBON MARKETS

ICAO Headquarters, Montréal, Canada
18 and 19 June 2008



BIOGRAPHIES

OPENING SESSION

Dr. T. Chérif, Secretary General, ICAO



Dr. Taïeb Chérif began his second three-year term as Secretary General of the International Civil Aviation Organization (ICAO) in 2006. Prior to that, he was the Representative of Algeria on the Council of ICAO from 1998 to 2003. Dr. Chérif's career in aviation spans some 35 years during which he held a series of progressively more responsible positions with the civil aviation authority of Algeria, where he was involved in the full range of airport, airline and air navigation operations, from regulatory and policy work to government relations and technical projects. In addition to his diverse aviation career, Dr. Chérif served as Secretary of State for Higher Education of Algeria. He holds a PhD in Air Transport Economics from Cranfield Institute of Technology, U.K. and a Diploma in Aeronautical Engineering from the École Nationale de l'Aviation Civile, Toulouse, France.



Mr. Y. de Boer, Executive Secretary, United Nations Framework Convention on Climate Change (UNFCCC)

Yvo de Boer was appointed by UN Secretary-General Kofi Annan as the new Executive Secretary of the UNFCCC on 10 August 2006. The appointment had been endorsed by the Bureau of the Convention. Before joining the UNFCCC, Mr. de Boer was Director for International Affairs of the Ministry of Housing, Spatial Planning and Environment of the Netherlands, responsible for international policy, both in the context of the European Union, as well as broader international cooperation. He has also served as Deputy Director-General for Environmental Protection in the same Ministry, as Head of the Climate Change Department and has worked in the fields of housing and public information. Early in his career, Mr. de Boer worked for the United Nations Centre for Human Settlements (UN-HABITAT). Mr. de Boer has been involved in climate change policies since 1994. He has helped to prepare the position of the European Union in the lead-up to the negotiations on the Kyoto Protocol, assisted in the design of the internal burden sharing of the European Union and has since led delegations to the UNFCCC negotiations.



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Mrs. J. Hupe, Chief, Environmental Unit, ICAO

Jane Hupe is the Chief of ICAO's Environmental Unit. She is also responsible for the coordination of the ICAO Council's Committee on Aviation Environmental Protection (CAEP). In that role, Jane advises the ICAO Council on worldwide aviation environmental issues related to aircraft noise and aircraft engine emissions. Before joining ICAO in 1998, Jane worked as a consultant, advising ICAO on environmental protection, standards and regulations. Prior to that, she was an environmental specialist and advisor at the Institute of Civil Aviation in Brazil. Jane holds a Masters degree in Airport Management and a Post-graduate degree in Environmental Auditing.

SESSION 1 : CARBON MARKETS

Facilitator: Mrs. J. Hupe, Chief, Environmental Unit, ICAO

Please see above.



Mr. A. Howard, Programme Officer, UNFCCC

Andrew Howard coordinates the support at the UN Climate Change Secretariat for the intergovernmental negotiation of market-based measures within a future climate agreement. This follows many years of involvement in both the negotiation of the rules to regulate the Kyoto Protocol, including for emissions trading, the clean development mechanism and joint implementation, and the subsequent work at the secretariat to implement the institutions and systems required to run it.



Mr. J. Väyrynen, Sr. Environmental Specialist, Carbon Unit Fund, The World Bank

Mr. Jari Väyrynen is an Operations Team Leader for the Carbon Finance Unit of the World Bank. He oversees a wide portfolio of carbon finance transactions, in particular in countries in the Europe and Central Asia region. Mr. Väyrynen has worked with the World Bank's carbon finance operations since 2000 and has thus extensive experience with the UNFCCC/Kyoto Protocol and the global carbon market, including both CDM, JI and Green Investment Schemes. He is currently leading a task team developing the forthcoming World Bank Carbon Partnership Facility aimed at the post-2012 era and programmatic approaches.



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Mr. K. Keldusild, ICAO/CAEP

Kalle Keldusild, is a Senior Advisor at the Swedish CAA and he is also co-rapporteur of the ICAO Emissions Trading Task Force. Over the years Kalle's responsibilities have shifted from general air transport policy to environmental issues, particularly climate change and market-based measures. He served as Alternate Permanent Representative of Norway on the ICAO Council from 1998-2001 at which time he was also appointed to coordinate EU-related matters in ICAO. He has represented Sweden at five sessions of the ICAO Assembly. He is also co-rapporteur of the new Market Based Measures Task Force. Kalle holds a Master of Political Science (economics, management and finance).

SESSION 2 : ASSESSING AVIATION EMISSIONS



Facilitator: Mr. U. Ziegler, ICAO/CAEP

Dr. Urs Ziegler was born in Chur, Switzerland on 24 / 12 / 1960. After having completed his studies in natural sciences he worked in the field of environmental protection for a civil engineering company as well as for more than 10 years for the Swiss Office for Environmental Protection. During this time he also acquired a degree in public administration. In early 2005 he joined Swiss FOCA as Head of the Office's Environmental Protection Unit. He is the actual Swiss CAEP member and currently co-chairs CAEP's Modelling and Databases Task Force.

Mr. A. Howard, Programme Officer, UNFCCC

Please see above.



Mr. C. Sawaia, ICAO

Celso Sawaia joined ICAO in 2007 and since then has been working with the statistical database system and working close to the Environmental section in order to develop the Carbon Emission Calculator Methodology. Mr. Sawaia graduated in computer engineering from Pratt Institute, New York, and holds a MBA from Fundação Getúlio Vargas, São Paulo



Dr. D. Fahey, Chemical Sciences Division, NOAA

Dr. David Fahey is a research physicist in NOAA's Earth System Research Laboratory in Boulder, Colorado, USA. He holds advanced degrees in physics and his specialty is the measurement of trace gases and aerosols in the troposphere and lower. His studies have addressed stratospheric ozone depletion, the photochemistry of nitrogen oxides, the formation of nitric acid containing aerosols, and the role of black carbon aerosol in climate. He has served as a senior scientist for NASA in several international scientific assessments of ozone depletion and climate. Dr. Fahey has received numerous awards for his work related to climate and the environment.



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Dr. O. Boucher, MET Office, UK

Dr. Olivier Boucher is Head of the Climate, Chemistry, and Ecosystems Team at the Met Office Hadley Centre in the United Kingdom. He was a lead author of the “Special Report on Aviation and the Global Atmosphere” (1999) of the Intergovernmental Panel on Climate Change (IPCC), a lead author of the IPCC Third Assessment Report and a contributing author to the 2002 WMO report on ozone. His research interests lie in Earth System modelling, mitigation of climate change, and regional to global air pollution, with a view to influence policymaking. His most recent work is on climate metrics to compare the climate effects of short-lived and long-lived atmospheric pollutants.



Mr. G. Fournier, World Meteorological Organization (WMO) Aircraft Meteorological Data Relay (AMDAR) Panel

Gilles Fournier holds a Master Degree in Physics from Sherbrooke University and a Post-Graduate Certificate in Atmospheric Science from University of Quebec. Mr. Fournier has been with Environment Canada over the last 24 years, including a 1-year assignment with National Defense and 7 years at Transport Canada. He is responsible for the strategic planning and design of Environment Canada’s observing networks and for the development and implementation of the Canadian AMDAR Program. He has been representing Canada on the WMO AMDAR Panel since 2000.

SESSION 3 : EMISSIONS TRADING SCHEMES (ETS)

Facilitator: Ms. J. Hull, Director, Trading Regimes Division Environment Canada

Ms. J. Hull joined Environment Canada in 1992. As the Director of the Trading Regimes Division she is currently leading the work of the Federal Government on the design of emission trading schemes for greenhouse gases and air pollutants.

Ms Hull has degrees in Political Science and Economics from the University of British Columbia and McGill University.



Mr. H. Derwent, President, International Emissions Trading Association (IETA)

Henry Derwent became the President and CEO of the International Emissions Trading Association (IETA) in February 2008. Previously, as international climate change Director for the UK Government, he oversaw the UK’s role in the international negotiations, in the G8 (especially as Prime Minister’s special representative during the UK G8 Presidency in 2005) and in other forums. Henry has been closely associated with the development of greenhouse gas trading in the UK and Europe from its earliest days. He previously had responsibilities for all aspects of climate change and sustainable energy in the



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UK as well as air quality and industrial pollution control. Before that, he was an international corporate finance executive at a major investment bank.



Mr. P. Good, Clean Air and Transport Unit, DG Environment, European Commission

Philip Good works for the European Commission in the Clean Air and Transport Unit of DG Environment. The Unit is responsible for a number of policies to reduce the climate impacts of all modes of transport, including aviation, shipping, and road vehicles. Philip works on aviation policy and is currently managing the development of the legislative proposal to include aviation in European Emissions Trading Scheme. In addition, he also takes an active role in the Commission's international activities on aviation and climate change. Before working on aviation issues, Philip focussed on the automotive sector and was responsible legislation limiting emissions from road vehicles. Prior to joining the European Commission, Philip was a management consultant at PricewaterhouseCoopers specialising in environment and climate change. Philip has a masters degree in environmental technology and a bachelors degree in law and economics.



Mr. D. Svarstad, Norwegian Ministry of Environment

Mr. Dag Svarstad is a Norwegian lawyer who has been working with emissions trading in the Section for Climate and Energy in the Norwegian Ministry of the Environment since 2005. He has also worked with regulating greenhouse gas emissions from the aviation sector, and questions relating to the inclusion of international aviation and shipping in a binding international climate regime



Mr. D. Southgate, Aviation Environment Policy, Aviation Operations Branch, Australia

Dave is the Head of the Aviation Environment Policy Section in the Australian Government Department of Transport and Regional Services. In recent years his group has focussed its work on trying to find ways to improve communications, and to build trust, between airports and their communities on aircraft noise issues. In March 2000 the Department published a discussion paper entitled Expanding Ways to Describe and Assess Aircraft Noise. In response to the positive reaction to this paper the group has developed a software package called TNIP (Transparent Noise Information Package) which is designed to reveal information on aircraft noise that has conventionally not been accessible to the non-expert.

Dave has worked as an environmental noise specialist in Australian Government Departments for over 25 years and has a science/engineering background. He holds degrees from the Universities of Liverpool, London and Tasmania.



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Mr. P. Gurnsey, Manager Climate Change Policy, New Zealand Ministry of Environment

Phil Gurnsey, is the Manager of Climate Change Policy at the New Zealand Ministry for the Environment. In this role he coordinates the New Zealand's whole of government climate change work programme. He is involved at both domestic and international levels in climate change policy development.

Mrs. S. Loney, Environment Canada

Suzanne Loney is a policy analyst in Environment Canada's Trading Regimes Division. She conducts research and analysis on greenhouse gas offsetting and emissions trading, and she is currently involved in the design and implementation of the Canadian Offset System.

She has a Master's degree in Economics from the University of Ottawa

Voluntary Markets



Mr. T. Hongo, Director General of Environment Finance Engineering Department, Japan Bank for International Cooperation

Takashi Hongo is Special Advisor and Director General for Environment Finance Engineering Department, established in October 2006, in Japan Bank for International Cooperation. He joined the Export-Import Bank of Japan in 1981 and served as Director for the Middle East and Africa, International Finance Department II, Director for the Environment Risk Analysis Department and Chief Representative in Frankfurt.

In addition to engaging in financing operations for GHG emission reduction projects, he is helping develop new frontiers, such as the demand side approach for CDM, Green Investment Scheme, and Market Approach Adaptation. He is a member of the International Advisory Board of G8+5 Climate Change Dialogue and is involved in Asia Pacific Partnership as a financial expert. He has made presentations in many international conferences such as the Carbon Expo, UN conferences, conferences related to energy efficiency and renewable energy and CMI. He is the organizer of CO2 Caravan by JBIC.

New Markets



Mr. L. Bitton, Vice-President, Research and Development of the Montréal Exchange

Léon Bitton presently serves as Vice-President, Research and Development at the Montréal Exchange. Mr. Bitton has over 25 years of experience in the Financial industry. Mr. Bitton has led the research and development effort related to most of the Montreal Exchange current listed derivatives products. He holds a Master degree from the University of Québec in Montreal in collaboration with the Florida International University.

Mr. Bitton is Member of the Board of the Research Center CIRANO and



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formally was member of the Board of the Association des MBA du Québec and of the Board of MITACS (Mathematics of Information Technology and Complex Systems) . He also acts regularly as a speaker and advisor to various associations and organizations in the financial and environmental sectors.

SESSION 4 : CARBON MARKETS



Facilitator: Mr. D. Jowers, United Kingdom Ministry of Transport

Danny Jowers heads up the International Branch of Aviation Environmental Division in the UK Department for Transport, where he leads on international work to address aviation's climate change impacts and on market based measures in particular. He represents the UK on the ICAO CAEP Market Based Measures Task Force and at various European fora.

Prior to this, Danny has worked in a variety of posts in the Department for Transport and the Office of the Deputy Prime Minister, on issues including London's £16bn Crossrail project; road transport and climate change; and neighbourhood renewal.

Clean Development Mechanism, and Joint Implementation and Carbon Offset Programmes



Mr. D. Russell, Managing Director, NATSOURCE

Douglas Russell is Managing Director of Natsource LLC (Ottawa) and has over 30 years of experience in the public and private sectors dealing with environmental issues. He is responsible for managing Natsource's Canadian advisory business and business development in Canada. Prior to joining Natsource, Mr. Russell co-headed Canada's negotiating delegation to the UN Framework Convention on Climate Change from 1992-1996. He has a BS degree in mathematics and a Masters of Public administration from Dalhousie University, Halifax.



Mr. R. Oden, Senior Commercialisation Manager, EcoSecurities

Robert Oden is a Senior Commercialisation Manager in the New York office of EcoSecurities, one of the world's largest developers and suppliers of emission reductions, for both the compliance and voluntary markets. He is responsible for building the US client base and helping new and existing US clients translate strategic voluntary and compliance objectives into transaction structures, with a particular focus on pre-compliance buyers. Prior to EcoSecurities, Rob spent nine years at Bear Stearns in New York and Houston, structuring equity investments in energy assets.



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Carbon Offset Programmes

Mr. D. Jowers, United Kingdom Ministry of Transport

Please see above.



Mr. K. Haag, IATA, Research on Consumers side

Dr. Ing. Karlheinz Haag studied aero-space engineering at the Technical University Aachen from 1975 to 1981. As junior scientist he then worked at the Institute for Mechanics at the Technical University Aachen where he made his doctoral degree too.

Between 1988 and 2002 he held several management functions at German Aerospace Center (DLR e. V.). As Program-Director Aeronautics he was responsible for the management of DLR's aeronautics research programs between 1998 and 2002. Since 2002 he is Head of the Department "Environmental Issues" at Lufthansa German Airlines.

Dr. Haag is representative of Lufthansa in the Environmental Committee of the International Air Transport Association (IATA) and member of several IATA working groups and he is member of the Infrastructure and Environmental Committee of the Association of European Airlines (AEA). By personal appointment he is also member of the National Noise Advisory Board in Germany.



Mr. K. Kristiansen, Director Advisory Services, Point Carbon

Kjell Olav Kristiansen is Director of Advisory Services at Point Carbon North America. He has three decades of energy and environmental market experience having initially served 19 years for the Norwegian government in senior positions both with oil and natural gas exploration and production as well as with electricity market restructuring and environmental policies. In private sector he has been partner and executive vice president of a power trading company, co-owner and chairman of a carbon consulting company as well as running his own energy consulting company focusing on European energy and environmental policy and markets. Kjell has served six years as Vice Chairman on the Board of Directors of the Norwegian Transmission System Operator. He started working with Point Carbon in 2005 and transferred to the Washington DC office in 2007. He has previously lived and worked in the US as energy counselor at the Norwegian embassy in Washington DC. Kjell speaks frequently at energy and carbon trading conferences and he has testified to the United States Senate and the European Union on design of cap-and-trade programs".



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Mr. E. Blachford, CEO, Terrapass

Currently the Chief Executive Officer of Terrapass, Inc., Erik Blachford was formerly President and CEO of Expedia, Inc. and CEO of IAC/InterActiveCorp's travel division, IAC Travel, including online travel businesses Expedia, Hotels.com, Hotwire, Classic Custom Vacations and Interval International. Previous positions include President, Expedia North America and Expedia Senior Vice President, Marketing & Programming. Erik holds a bachelor's degree in English and certificate in theater from Princeton University and a Masters in Business Administration from Columbia University's Graduate School of Business.



Mr. W. George, Vice President and National Practice Leader Corporate Social Responsibility and Sustainability Montreal

William George has extensive senior experience in the private, public and not for profit sectors. Prior to joining Edelman as Senior Vice President and member of Edelman Canada's management committee, William was Senior Vice-President, Communications and Government Relations at CGI Group, the world's largest IT and business process services provider. He was also Vice-President, Communications, Government Relations, and Marketing at Domtar, the largest maker and marketer of office and commercial printing papers in North America. Before moving to the private sector, William held several senior management positions in the Government of Canada, notably in the Privy Council Office and in the Department of National Defense. He was also a member of the North Atlantic Treaty Organization's (*NATO) policy planning staff in the late 1980s when the Berlin Wall came down and the Soviet Union ceased to exist.

During his tenure at Domtar, he developed multiple business partnerships between the company and well-known environmental groups. These partnerships resulted in the creation of the first line of environmental paper to be officially endorsed by these groups. William has also supported several environmental groups such as the Canadian Boreal Initiative, Forest Ethics, the Forest Stewardship Council, Rainforest Alliance, and the World Wildlife Fund in their efforts to engage constructively large corporations. Lastly, William helped the Lucie and André Chagnon Foundation, the largest private foundation in Canada, to develop and launch a program to fight children obesity. William holds a Master's degree from Carleton University and a Bachelor's degree from the Université de Montréal.



Mrs. J. Kuehnel, Carbon Neutral Company

Jacqueline Kuehnel has been the Canadian Associate of the UK based The CarbonNeutral Company since 2006.

Prior to working with The CarbonNeutral Company, Jacqueline was Vice President of Product and Operations for Signature Vacations Canada (now owned by TUI Plc) where she was responsible for developing international leisure travel product and managing a fleet of nine aircraft. Jacqueline has 25 years of experience in tour operating and aviation and has been involved in climate change and corporate social responsibility with organizations such as Canadian Business for Social Responsibility since 2004.

Jacqueline is also a regular lecturer on travel and tourism at Ryerson University and organizes the Responsible Travel and Tourism Forum in Toronto.



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SESSION 5 : CREATING GLOBAL SCHEMES SHARING INITIAL INFORMATION ON MAIN ISSUES INVOLVED

Facilitator: [Mr. K. Kedusild](#), ICAO/CAEP

Please see above.



Mr. E. Haites, MARGAREE Consultants Inc.

Dr. Haites served as Head of the Technical Support Unit for Working Group III of the Intergovernmental Panel on Climate Change (IPCC) for the Second Assessment Report. He was a Lead Author for both the Second and Third Assessment Reports and a Review Editor for the Fourth Assessment Report of Working Group III on policy measures. Dr. Haites has assisted the UNFCCC Secretariat on issues related to the Kyoto mechanisms, especially the Clean Development Mechanism, since 1998.

Dr. Haites contributed to designs of greenhouse gas emissions trading programs for Australia (Inter-jurisdictional Working Group), Canada (National Round Table on the Environment and the Economy), the European Union (European Commission), the United Kingdom (International Petroleum Exchange) and the United States (Heinz Center). He participated in a study of the feasibility of multiple pollutant trading programs for Alberta. Dr. Haites participated in the PERT pilot program for NOx, VOC and greenhouse gas emissions trading in southern Ontario.

Dr. Haites has published numerous papers and studies on issues related to the economics of climate change, emissions trading, and the Kyoto mechanisms. He has been invited to testify before parliamentary committees in Canada, Ontario and Quebec. Dr. Haites holds a B.Sc. in mathematics from the University of Alberta, an MBA from McGill University, and an M.A. and Ph.D. in economics from Purdue University.



Mr. Jason R. Patrick, Carbon Emissions, Merrill Lynch

Jason Patrick is a vice president in Merrill Lynch Commodities Inc (MLCI), and is responsible for building Merrill Lynch's carbon business in the Americas. Jason originates, structures and commercializes carbon for Merrill Lynch's commodities business and its clients. Jason also originates and structures financings for clients in the power and fuels sectors that have a carbon component. He has also worked with Merrill Lynch Commodities Partners (MLCP) on assessing and structuring principal carbon investments. Before joining Merrill Lynch Jason was a vice president with Evolution Markets Inc.'s greenhouse gas emissions markets group, where he facilitated transactions in global greenhouse gas credits. Jason has an extensive background in environmental policy and environmental trading market design and implementation. During his career Jason has provided advice and facilitation of trades of carbon credits under the Kyoto Protocol's Clean Development Mechanism and



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Joint Implementation flexible mechanisms. He has also specialized in carbon market development in the US, including climate change programs in the Northeast under the Regional Greenhouse Gas Initiative, California and other states. Jason holds degrees in financial economics from New York University, environmental management from Yale University, and natural science from the University of California at Berkeley.

Mr. P. Good, Clean Air and Transport Unit, DG Environment, European Commission

Please see above.



Ms. M. Locke, Office of Environment and Energy, Federal Aviation Administration, U.S.A.

Since 1988, Maryalice Locke has supported the U.S. Federal Aviation Administration in reducing the environmental footprint of aviation while maintaining its safety and viability.

Mr. D. Southgate, Aviation Environment Policy, Aviation Operations Branch, Australia

Please see above.

SESSION 6 : EMERGING DISCUSSION ON FINANCING MITIGATION AND ADAPTATION

Facilitator: **Mr. E. Haites**, MARGAREE Consultants Inc.

Please see above.

Mr. A. Howard, Programme Officer, UNFCCC

Please see above.

Mr. J. Vavrynen, Sr. Environmental Specialist Carbon Unit Fund

Please see above.



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Dr. A. Stochniol, IMERS

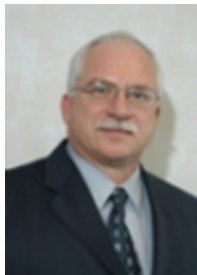
Dr. Andre Stochniol is an independent Director who decided in 2006 to dedicate his business and academic experiences to tackling climate change.

During 2007 he architected and secured significant multi-lateral support for an innovative International Maritime Emission Reduction Scheme (IMERS). IMERS is a hybrid, cap-and-charge scheme designed to mitigate maritime CO₂ emissions globally by leveraging carbon markets. Simultaneously, it reduces the gap in financing of adaptation to climate change in developing countries, while also providing financing for technology transformation.

His successful management consulting and academic careers have spanned 27 years.

SESSION 7 : ROUND TABLE

VIEWS FROM MAIN STAKEHOLDERS ON THE PARTICIPATION OF INTERNATIONAL AVIATION IN CARBON MARKETS



Facilitator: Mr. J. Begin, Deputy Director, Air Transport Bureau, ICAO

John Begin is Deputy Director, of the ICAO Air Transport Bureau. He holds a degree in Law with a focus on environmental regulation. He held a variety of management positions over 30 years in the aerospace and airline industries. Mr Begin has extensive experience in the environmental field including the issues of climate change, local air quality, and aircraft noise. He was a lead author of the IPCC Special Report on Aviation and the Environment and he has participated actively on behalf of IATA in the ICAO CAEP Forecasting and Economic subgroup.

He was appointed to his current post of Deputy Director, Air Transport Bureau effective 6 January 2006.

STAKEHOLDERS:



Mr. X. Oh, ACI

Xavier has been the Environment Manager at ACI since September 2005 and is based in the ACI Montreal Bureau, located near ICAO Headquarters.

As an industry association, ACI is an official Observer at ICAO's Committee on Aviation Environmental Protection (CAEP). Xavier is the ACI representative, participating at all levels from the triennial CAEP meetings to the technical work groups on noise, emissions, operations and market-based measures.

As the secretary of ACI's World Environment Standing Committee, another of his main tasks is developing, coordinating and implementing policy on all issues relating to the environment and airports. Noise and gaseous aircraft



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emissions are the main global issues, but local issues such as air and water quality, energy efficiency and land management also have global significance.

Xavier's background includes mechanical engineering studies in Australia and Canada, working for 6 years as a consultant in machine and structural dynamics in Australia and Malaysia, and 10 years as an acoustical engineer in New Zealand



Mr. T. Johnson, Director, Aviation Environment Federation

Tim has been working in the national and international aviation environmental policy field for eighteen years, as a representative of the environmental sector and as a consultant. He is currently Director of the Aviation Environment Federation (AEF) and represents the ICSA at meetings of the International Civil Aviation Organisation's Committee on Aviation Environmental Protection (CAEP).

Established in 1975, the AEF is the principal environmental association in the UK concerned specifically with all the environmental effects of aviation. The Federation's membership comprises over 100 residents' groups, amenity and environmental organisations, and local authorities around the UK's airports and airfields.

ICSA, the International Coalition for Sustainable Aviation, is an umbrella group of environmental NGOs working in the field of aviation and environmental protection. It was founded in 1998 to co-ordinate and represent NGO views, and is an observer organisation to CAEP.



Mr. I. Jopson, CANSO

Ian has more than fifteen years experience in the sphere of environmental aviation issues in Europe and beyond working for the Civil Aviation Authority, the UK air navigation service provider - NATS and an independent consultancy. His work has spanned numerous large scale noise monitoring and analysis programmes, including the only large scale UK study of night-time noise at the London airports and the provision of technical advice to UK and European Governments on aviation's impact on the environment. He has participated in a number of international committees such as the US Transportation Research Board's committee overseeing the design of the FAA's Aviation Environmental Design Tool and Europe's ANCAT. His core area of expertise is ATM and the environment; he until recently chaired the CANSO Environmental Work Group, and developed an environmental code of practice for ANSPs. Ian is now the Head of Environmental and Community Affairs at NATS, responsible for driving forward a programme targeting improvements to operational CO₂ emissions and carbon neutrality for the NATS estate – NATS is the first air navigation service provider to set operational CO₂ targets. Ian is CANSO's representative at ICAO CAEP and recently advised CAEP's Group on International Aviation and Climate Change.



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Mr. A. Hardeman, IATA

Andreas Hardeman works for the International Air Transport Association (IATA) where he is responsible for advocacy of industry strategies and policies on airline environmental issues. He has been at the forefront of IATA's efforts to promote the role of air transport in sustainable development, building airline industry consensus on policies concerning climate change, local air quality, and noise. He holds degrees in International Air and Space Law (LLM) and International Economic Development (MA). In 2004, Andreas was appointed IATA's representative to ICAO's Committee on Aviation Environmental Protection (CAEP) where he also co-chaired the Emissions Trading Task Force from 2004 to 2007.

CLOSING OF WORKSHOP



Mrs. Folasade Odutola, Director, Air Transport Bureau, ICAO

Ms. Folasade Odutola assumed duties as Director, Air Transport Bureau on 7 May 2007. Ms. Odutola holds a Master's degree in Air Transport Engineering from Cranfield University, Bedford, UK, and a Bachelor of Science (Hons.) degree in Aeronautical Engineering from the University of Glasgow, UK. She has worked in the aviation industry since 1977. She has attended several technical and management courses, including air transport economics, performance enhancement, management for directors and CEOs, management development for senior executives, and management of training courses.

Before taking up the position with ICAO, Ms. Odutola was Rector and CEO of the Nigerian College of Aviation Technology, an *ab-initio* training institute for all professionals for the aviation industry. Prior to that, she worked in the Nigerian civil aviation regulatory system for over 20 years, culminating in the attainment of the position of Director, Airworthiness and Operations Standards in the Nigerian Civil Aviation Authority, which was established at the turn of the millennium. Ms. Odutola has handled air transport licensing and commercial duties and has also participated in bilateral air services agreement meetings and other air transport activities.

She is a Fellow of the Royal Aeronautical Society.