



# ICAO

# Destination Green

## 4th ICAO Symposium on Aviation and Climate Change

### ***PRE-SYMPOSIUM SEMINAR ON STATES' ACTION PLANS***

**MONDAY**

**13 MAY 2013**

**08:00 – 09:30 >**

**ON-SITE REGISTRATION**

**09:30 – 13:30 >**

***SEMINAR ON THE DEVELOPMENT OF A STATE ACTION PLAN  
AND ON ACTION PLAN DATA NEEDS***

- Overview on progress
- Review of the APER website and the guidance document
- How to create a baseline and expected results
- ICAO tools: ICAO Carbon Emissions Calculator, ICAO Fuel Savings Estimation Tool (IFSET), etc.
- APER website
- Data needs\*

\*Note: ICAO Secretariat is available to have one-on-one meetings to review collected data or data needed for an Action Plan.

#### ***SPEAKERS***

ICAO Secretariat Environment Branch (ENV)

**13:30 – 14:30 >**

**LUNCH BREAK**



PRE-SYMPOSIUM SEMINAR ON STATES' ACTION PLANS

MONDAY

13 MAY 2013

14:30 – 16:30 >

**SEMINAR ON THE IMPLEMENTATION OF MEASURES**

- Overview on progress
- Basket of measures
- Selection of measures
- Assistance needs
- ICAO Technical Cooperation Bureau (TCB) and Regional Development Banks

**SPEAKERS**

ICAO Secretariat (ENV/TCB)

**Alistair O'Hara**, Head, Project Implementation Unit,  
Technical Cooperation Bureau, ICAO

**Arnaldo Vieira de Carvalho**, Inter-American Development  
Bank (IDB)

**Oliver Page**, Regional Technical Adviser, Climate Change  
Mitigation, Environment and Energy Practice, United  
Nations Development Programme (UNDP)

18:00 – 20:00 >



**JOINT ICAO-ATAG RECEPTION**





TUESDAY

14 MAY 2013

08:00 – 12:00 >

ON-SITE REGISTRATION

## ENVIRONMENTAL SYMPOSIUM

Moderator: **Kerryn Macaulay**, Representative of Australia on the Council of ICAO

09:30 – 09:40 >

**WELCOME AND INTRODUCTION**

**Roberto Kobeh González**, President of the Council of ICAO  
**Boubacar Djibo**, Director, Air Transport Bureau, ICAO

09:40 – 10:10 >

**KEYNOTE ADDRESS**

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

10:10 – 10:30 >

**OPENING SESSION – SETTING THE SCENE**

- Overview of developments in the field of aviation and environment since the last ICAO Assembly

**Jane Hupe**, Chief, Environment Branch, ICAO

10:30 – 11:00 >

**COFFEE BREAK SPONSORED BY A4A**



11:00 – 12:30 >

**SESSION I – AVIATION AND ENVIRONMENT – ENVIRONMENTAL GOALS, DATA AND TOOLS**

- ICAO Secretariat Overview – Goals, Data and Tools
- ICAO CO<sub>2</sub> Reporting and Analysis System (ICORAS)
- ICAO Carbon Emissions Calculator
- IFSET
- Tools and Trends

**SPEAKERS**

**Gregg Fleming**, Director of the Environmental and Energy Systems Center of Innovation at the Volpe Center, CAEP  
Modelling and Database Group, *Presentation on Environmental Trends in Aviation to 2050*



TUESDAY

14 MAY 2013

11:00 – 12:30 >

**SESSION 1 (cont.)**

**SPEAKERS**

**Andrew Watt**, Head of Environment, EUROCONTROL,  
*Presentation on AEM, WISDOM*

**Ted Thrasher**, Modelling and Analysis Officer, Environment  
Branch, ICAO, *Presentation on ICORAS and ICAO Carbon  
Emissions Calculator*

**Ananthanarayan Sainarayan**, Environmental Officer,  
Environment Branch, ICAO, *Presentation on IFSET and  
Green Meeting Calculator*

**Katia Simeonova**, Manager, Mitigation, Data and Analysis  
Programme, United Nations Framework Convention on  
Climate Change (UNFCCC), *Presentation on Setting Goals  
and Monitoring Data*

Questions and Answers

12:30 – 14:00 >

**LUNCH BREAK**

14:00 – 15:00 >

**SESSION II – AIRCRAFT NOISE**

- ICAO Secretariat Overview – Aircraft Noise
- Noise Stringency
- Technology
- Balanced Approach

**SPEAKERS**

**Jane Hupe**, Chief, Environment Branch, ICAO, *Presentation  
on Balanced Approach*

**Elisabeth Le Masson**, Delegate for Sustainable  
Development and Member of the Board of Directors of  
Hubstart Paris, Aéroports de Paris, Airports Council  
International (ACI), *Presentation on Implementation of the  
Balanced Approach: The Paris – Charles de Gaulle Case*

**Neil Dickson**, Noise Officer, Environment Branch, ICAO,  
*Presentation on Noise Stringency*

**Luc Mongeau**, CAEP Independent Expert Noise Panel,  
*Presentation on Noise Technology Goals*



TUESDAY

14 MAY 2013

14:00 – 15:00 >

**SESSION II (cont.)**

**SPEAKERS**

**Alan Epstein**, Vice President of Technology & Environment, Pratt & Whitney, International Coordinating Council of Aerospace Industries Associations (ICCAIA), *Presentation on Current Noise Technology*

Questions and Answers

15:00 – 15:30 >

**COFFEE BREAK** SPONSORED BY



**Pratt & Whitney**  
A United Technologies Company

15:30 – 17:00 >

**SESSION III – TECHNOLOGY AND OPERATIONS**

- ICAO Secretariat Overview
- New Technologies
- Standards
- Operations

**SPEAKERS**

**Lourdes Maurice**, Executive Director, Office of Environment and Energy, Federal Aviation Administration (FAA), *Presentation on Aviation Environment Impacts*

**Vince Galotti**, Deputy Director, Standardization and Infrastructure, Air Navigation Bureau, ICAO, *Presentation on ASBUs*

**Ted Thrasher**, Modelling and Analysis Officer, Environment Branch, ICAO, *Presentation on the Environmental Benefits of ASBUs*

**John Paul Clarke**, Associate Professor in the Daniel Guggenheim School of Aerospace Engineering and Director of the Air Transportation Laboratory at the Georgia Institute of Technology, *Presentation on the Potential Benefits of Operations*

**Ian Jopson**, NATS UK, *Presentation on ATM Environmental Issues*

**Rob Thurgur**, Assistant Vice President Operational Support, NAV CANADA, *Presentation on CIFER*

Questions and Answers

17:00 – 20:00 >

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WEDNESDAY

15 MAY 2013

09:30 – 10:45 >

**SESSION IV – GLOBAL EMISSIONS –  
MARKET-BASED MEASURES**

- ICAO Secretariat Overview
- Environmental Assessment
- Market-based Measures
- Carbon Offsets

**SPEAKERS**

**Sam Brand**, Market-based Measures Officer, Environment Branch, ICAO, *Presentation on Market-based Measures*

**Shona Rosengren**, Director, Aviation Environment Policy, Aviation Environment Branch, Aviation and Airports Division, Australia, *Presentation on the Carbon Pricing Mechanism in Australia*

**Takashi Hongo**, Senior Fellow, Mitsui Global Strategic Studies Institute, *Presentation on Flexible and Effective Measures – Market-based Approach*

**Annie Petsonk**, International Coalition for Sustainable Aviation (ICSA), *Presentation on a Global MBM for Aviation and Climate Change*

Questions and Answers

10:45 – 11:15 >

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**BOMBARDIER**  
the evolution of mobility

11:15 – 12:30 >

**SESSION IV – GLOBAL EMISSIONS –  
MARKET-BASED MEASURES**

**SPEAKERS**

**Paul Steele**, Executive Director, Air Transport Action Group (ATAG), *Presentation on Market-based Measures for Aviation – Airlines' Perspectives*

**Guy Turner**, Chief Economist and Director of Commodity Research, Bloomberg New Energy Finance, *Presentation on Carbon Market*



WEDNESDAY

15 MAY 2013

11:15 – 12:30 >

**SESSION IV (cont.)**

**Robin Rix**, Lead Officer for Strategy Development Relating to Market-based Mechanisms, United Nations Framework Convention on Climate Change (UNFCCC), *Presentation on the New Market-based Mechanisms*

Questions and Answers

12:30 – 14:00 >

**LUNCH BREAK**

14:00 – 15:30 >

**SESSION V – GLOBAL EMISSIONS –  
SUSTAINABLE ALTERNATIVE FUELS FOR AVIATION**

- ICAO Secretariat Overview – Sustainable Alternative Fuels
- News Initiatives on Sustainable Alternative Fuels
- Next Steps

**SPEAKERS**

**Philippe Novelli**, Alternative Fuels Officer, Environment Branch, ICAO, *Presentation on ICAO and Aviation Alternative Fuels*

**Nancy Young**, Commercial Aviation Alternative Fuels Initiative (CAAFI), *Presentation on Commercial Issues/How Aviation can Drive Alternative Fuels Development*

**Fokko Kroesen**, Environmental Manager, KLM Royal Dutch Airlines, *Presentation on KLM's Corporate Biofuel Program*

**Alejandro Ríos Galván**, Director, Sustainable Bioenergy Research Consortium, Professor of Practice, Masdar Institute of Science and Technology, United Arab Emirates, *Presentation on Sustainable Bioenergy Research Consortium*

**Cesar Velarde**, Manager, Observatory of Sustainability in Aviation (OBSA), *Presentation on ITAKA: Overcoming Barriers for Commercialization*

**Darrin Morgan**, Director, Sustainable Aviation Fuels Strategy, Boeing, Sustainable Aviation Biofuels for Brazil (SABB), *Presentation on Sustainable Aviation Biofuels for Brazil*

Questions and Answers



WEDNESDAY

15 MAY 2013

15:30 – 16:00 >

COFFEE BREAK SPONSORED BY



16:00 – 17:00 >

**SESSION VI – PARTNERSHIPS –  
COOPERATION WITH OTHER ORGANIZATIONS**

- Partnerships with other Organizations

**SPEAKERS**

**Jane Hupe**, Chief, Environment Branch, ICAO, *Presentation on Cooperation with other Organizations*

**Katia Simeonova**, Manager, Mitigation, Data and Analysis Programme, United Nations Framework Convention on Climate Change (UNFCCC), *Presentation on Cooperation*

**Chris Lyle**, Representative of the UN World Tourism Organization (UNWTO), *Presentation on Cooperation with ICAO – Joint Agreement ICAO/UNWTO*

**Herbert Puempel**, Chief, Aeronautical Meteorology Unit, World Meteorological Organization (WMO) *Presentation on How Aviation and Meteorology can Contribute Jointly to Adaptation*

**Céline Lavinay-Hourcade**, Manager, Cargo Industry Affairs, IATA and Global Air Cargo Advisory Group (GACAG)

Questions and Answers





THURSDAY

16 MAY 2013

09:30 – 10:45 >

**SESSION VII – GLOBAL EMISSIONS –  
STATES' ACTION PLANS**

- ICAO Secretariat Overview – State Action Plans
- Presentations from States

**SPEAKERS**

**Blandine Ferrier**, Officer, Environment Branch, ICAO,  
*Presentation on States' Action Plans*

**Shona Rosengren**, Director, Aviation Environment Policy,  
Aviation Environment Branch, Aviation and Airports  
Division, Australia, *Presentation on the State Action Plan of  
Australia*

**Sean Rogers**, Director of Analysis and Evaluation, Transport  
Canada, *Presentation on the State Action Plan of Canada*

**lv Jixing**, Focal Point of China, *Presentation on the State  
Action Plan of China*

**Junhaeng Jo**, Director, The Korea Transport Institute (KOTI),  
*Presentation on the State Action Plan of Republic of Korea*

**Ayten Kisacik**, European Union Coordinator, DGCA Turkey,  
State Action Plan Focal Point of Turkey, *Presentation on the  
State Action Plan of Turkey*

**Jose Ramo Pereira**, Focal Point of Venezuela, *Presentation  
on the State Action Plan of Venezuela*

Questions and Answers

10:45 – 11:15 >

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THURSDAY

16 MAY 2013

11:15 – 12:30 >

**SESSION VIII – FINANCING AND ASSISTANCE**

- ICAO Secretariat
- Presentations from International and Regional Organizations

**SPEAKERS**

**Jane Hupe**, Chief, Environment Branch, ICAO, *Presentation on Assistance*

**Alistair O'Hara**, Head, Project Implementation Unit, Technical Cooperation Bureau, ICAO, *Presentation on ICAO Technical Cooperation Bureau Assistance*

**Alexandre Kossoy**, Senior Financial Specialist, Climate Policy and Finance Department, the World Bank Group

**Arnaldo Vieira de Carvalho**, Inter-American Development Bank (IDB), *Presentation on IDB's Work – Aviation Biofuels Initiatives in LAC*

12:30 – 14:00 >

**LUNCH**

14:00 – 14:45 >

**SESSION VIII (cont.)**

**SPEAKERS**

**Oliver Page**, Regional Technical Adviser, Climate Change Mitigation, Environment and Energy Practice, United Nations Development Programme (UNDP), *Presentation on UNDP's Programme on Assistance*

**Elina Bardram**, Head of Unit, International Carbon Markets, Aviation and Maritime Unit, DG CLIMA, European Commission (EC), *Presentation on the EU as a Partner for Development*

**Haaba Baldeh**, Air Transport Unit, Economic Community of West African States (ECOWAS) Commission, *Presentation on ECOWAS Activities*

**Questions and Answers**



THURSDAY

16 MAY 2013

14:45 – 15:15 >

**COFFEE BREAK** SPONSORED BY



15:15 – 16:45 >

***SESSION IX – AVIATION AND ENVIRONMENT –  
MOVING FORWARD: CHALLENGES AND OPPORTUNITIES***

- Round Table: Moving Forward on Aviation and Environment: Challenges and Opportunities

***SPEAKERS***

**Jane Hupe**, Chief, Environment Branch, ICAO

**Geoffray Robert**, Representative of Belgium on the Council of ICAO

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

**Alberto Muñoz Gómez**, Representative of Colombia on the Council of ICAO

**Yong Heng Lim**, Representative of Malaysia on the Council of ICAO

**Alexey A. Novgorodov**, Representative of the Russian Federation on the Council of ICAO

**Maryam Al Balooshi**, Environment Manager, GCAA, on behalf of **Aysha Al Hamili**, Representative of the United Arab Emirates on the Council of ICAO

**Lourdes Maurice**, Executive Director, Office of Environment and Energy, Federal Aviation Administration (FAA), on behalf of **Ambassador Duane Edward Woerth**, Representative of the United States on the Council of ICAO

*Questions and Answers*

16:45 – 17:00 >

***CONCLUSION AND WRAP-UP SESSION  
BY THE ICAO SECRETARIAT***