



ICAO

Fuelling Aviation with Green Technology

9 to 10 September 2014



In English only

TUESDAY, 9 SEPTEMBER

07:30 – 09:00

On-site Registration

07:30 – 09:00

Breakfast sponsored by Bombardier

Welcome and opening remarks

09:00 – 09:35

- Raymond Benjamin, Secretary General, ICAO
- Bertrand Piccard, Initiator & Chairman, Solar Impulse

09:35 – 09:50

Setting the Scene – The Shape of the Future

Speaker:

- Jane Hupe, Deputy Director, Environment, ICAO

09:50 – 12:30

Current and Future Aircraft Technologies

- New generation aircraft and future design concepts
- New composite materials
- Eco-compatible design through Life Cycle Assessment studies
- Winglets

Networking and refreshment break included in the session (10:45 – 11:05)

Speakers :

- Ed Waggoner, Integrated Systems Research Program Office, National Aeronautics and Space Administration (NASA)
- Sarah Walter, Rolls-Royce, International Coordinating Council of Aerospace Industries Associations (ICCAIA)
- Rainer Von-Wrede, Environmental Affairs, Airbus
- David Akiyama, EcoDemonstrator Program, Boeing
- Wes Lord, Pratt & Whitney
- Fassi Kafyeke, Bombardier



TUESDAY, 9 SEPTEMBER

- Nelson Salgado, Embraer
- Claudio Leonardi, Clip-Air Project, École Polytechnique Fédérale de Lausanne (EPFL)
- Daniel Wehner, Fraunhofer IBP

➤ Question & answer session

Moderator: Rolf Monning, Alternate Representative of Germany on the Council of ICAO, Member, Air Navigation Commission

12:30 – 13:50

Lunch break sponsored by Honeywell

13:50 – 15:30

Aircraft End-of-Life: Scrapping and Recycling

- Overview of current and future aircraft fleets
- Aircraft parked in the desert
- Best management practices, guidelines and voluntary industry standards for recycling aircraft materials
- Recycling aircraft – pioneer programmes and learning from others

Speakers:

- Tim Zemanovic, Aircraft Fleet Recycling Association (AFRA)
- Thomas Roetger, Environment – Technology, International Air Transport Association (IATA)
- Pete George, Engineering and Operations Technology, Boeing
- Ted Elliff, Envisa
- Bruce Parry, Bombardier
- Olivier Malavallon, Airbus

➤ Question & answer session

Moderator: Moumouni Dieguimde, Representative of Burkina Faso on the Council of ICAO

15:30 – 15:50

Networking and refreshment break sponsored by Airbus

15:50 – 17:00

Current and Future Technologies for Green Aircraft Operations

- ICAO Secretariat overview
- Aviation System Block Upgrades (ASBUs)
- Companies' perspectives

Speakers:

- Ted Thrasher, Environment, ICAO
- Christopher Dorbian, Federal Aviation Administration (FAA), U.S.
- Robert Brons, Flight Technical Committee, International Federation of Airline Pilots Associations (IFALPA)
- Douglas A. Stoll, Civil Air Navigation Services Organization (CANSO)

➤ Question & answer session

Moderator: Farid Zizi, Alternate Representative of France on the Council of ICAO and President, Air Navigation Commission

17:00 – 19:00

Reception sponsored by Airbus



WEDNESDAY, 10 SEPTEMBER

09:00 – 10:20

Eco-airports and Innovative Design Concepts

- Environmentally-friendly airports and innovative design concepts for waste, water, noise and energy management at airports
- Environmental policies around airports
- Green engine wash facility
- E-taxi
- Environmental management systems at airports

Speakers:

- Xavier Oh, Airports Council International (ACI)
- Taizo Nishiyama, Airport Facilities Division, Japan Civil Aviation Bureau
- Panagiotis Karamanos, Airport Carbon Accreditation
- Isaiah Cox, WheelTug
- Rudy Dudebout, Honeywell Aerospace
- Sandy Webb, Environmental Consulting Group

➤ Question & answer session

Moderator: Gilles Bourgeois, Chief, International Aviation, International Operations, Transport Canada, and Member of Canada on the ICAO Committee on Aviation Environmental Protection

10:20 – 10:40

Networking and refreshment break sponsored by Airbus

10:40 – 12:00

Renewable Energy for Aviation

- Solar and electric airplanes
- Hybrid drive systems for airplanes
- Solar panels and wind farms at airports for energy generation
- Solar fuel
- Hybrid green energy at airports

Speakers:

- André Borschberg, Solar Impulse
- Stephen Barrett, Harris Miller Miller & Hanson (HMMH)
- Jonathan Frank, Sunedison
- Christoph Falter, Bauhaus-Luftfahrt
- Takayuki Kojima, Japan Aerospace Exploration Agency (JAXA)

➤ Question & answer session

Moderator: Captain Aysha Al Hameli, Representative of the United Arab Emirates on the Council of ICAO

12:00 – 13.30

Lunch break

13.30 – 14.45

Sustainable Alternative Fuels

- ICAO Secretariat overview on aviation biofuels
- Current and future initiatives on sustainable alternative fuels

Speakers:

- Philippe Novelli, Environment, ICAO



WEDNESDAY, 10 SEPTEMBER

- Michael Gill, Aviation Environment, Air Transport Action Group (ATAG)
- Nathan Brown, Federal Aviation Administration (FAA), U.S.
- Fernando Garcia, Amyris and Philippe Marchand, TOTAL
- Gerard Ostheimer, Global Lead, Sustainable Bioenergy High-Impact Opportunity, Sustainable Energy for All (SE4ALL)

➤ Question & answer session

Moderator: Norberto Luongo, Alternate Representative of Argentina on the Council of ICAO

14.45 – 15.15

Networking and refreshment break sponsored by Airbus

15:15 – 17:00

Financing and Assistance

- ICAO assistance programme
- Funding opportunities for greening aviation
- Presentations from international and regional organizations
- Concrete examples on financing States' activities related to environment and international aviation
- Opportunities for funding technology development and deployment of biofuels and mitigation policies

Speakers:

- Robin Rix, United Nations Framework Convention on Climate Change (UNFCCC)
- Marcel Alers, Energy Infrastructure, Transport and Technology, United Nations Development Programme (UNDP)
- Alexandre Kossoy, World Bank
- Christopher Ross, European Union
- Dan Fuller, Carbon War Room

➤ Question & answer session

Moderator: Jane Hupe, Deputy Director, Environment, ICAO

17:00 – 17:15

Wrap-up and closing session



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