



Transports
Canada

WORKSHOP ON AVIATION OPERATIONAL MEASURES FOR FUEL AND EMISSIONS REDUCTION

Workshop Objectives

**Alec Simpson
Transport Canada**



**Introductory Panel
Montreal, 20-21 September 2006**

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- **ICAO Circular 303, on Operational Opportunities to Minimize Fuel Use**

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Circular Objectives

- Document the environmental benefits resulting from the use of current aircraft and infrastructure, and the related benefits of infrastructure improvements; and
- Demonstrate that the more efficient use of infrastructure and equipment is an effective means to reduce aviation emissions



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ICAO Circular Objectives



- This circular is based on the understanding that the most effective way to minimize aircraft emissions is to minimize the amount of fuel used in operating each flight. It reflects operational opportunities and identifies areas where improvements are important;
- It is aimed at airlines, airports, ATM/Air Traffic Control (ATC) service providers, airworthiness authorities, environmental and other government bodies

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Workshop Objectives

- Highlight best practices and practical solutions published in the ICAO Circular 303 Operational Opportunities to Minimize Fuel Use and Reduce Emissions
- Provide a forum for experts and stakeholders to exchange ideas and develop partnerships to maximize potential benefits



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Introductory Panel

- 9:00 **Welcome Remarks**
Ron Sully, ADM Programs, Transport Canada
- 9:10 **Transport Canada Perspective – Aviation Emissions and the Environment**
*Alec Simpson
Environmental Affairs, Transport Canada*
- 9:20 **An Overview of ICAO's Work on Aviation Environmental Protection**
Jane Hupe, ICAO Secretariat
- 9:40 **Alternative Fuels, Aviation and the Environment**
Lourdes Maurice, Federal Aviation Administration
- 10:00 **Break**

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Aircraft Maintenance Panel

Moderator/Chair: Dom Sepulveda, *Pratt & Whitney*

- 10:30 Engine Deterioration and Maintenance Actions
Ivan Hutter, GE Aviation
- 10:50 Fuel Conservation – Airframe Maintenance for Environmental Performance
David Anderson, Boeing Commercial Airplanes
- 11:10 Weight Management
Florentina Viscotchi, Bombardier
- 11:30 Questions for Panel
- 12:00 Lunch



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Air Traffic Management Panel

Moderator/Chair: Anouk Guillaume, *NAV Canada*

- 13:30 European Examples of CNS/ATM Environmental Benefits
Ted Ellif, EUROCONTROL, Environmental Studies, R&D
- 13:50 Continuous Descent Approach (CDA)
Jim Brooks, Georgia Tech
- 14:10 Air Traffic Management Initiatives
Ross Bowie, NAV Canada
- 14:30 Questions for Panel
- 15:00 Refreshment Break



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Flight Operations – Part One

Moderator/Chair: Alain Joselzon, *Airbus*

- 15:30 **Air Carrier Efficiencies**
Kevin Morris, *British Airways*
- 15:50 **Flight Operations**
Olivier Husse, *Airbus*
- 16:10 **Fuel Management Program**
Jacques Mignault, *Air Transat*
- 16:20 **Questions for Panel**



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Flight Operations – Part Two

Moderator/Chair: Les Aalders, *Air Transport Association of Canada*

- 8:30 Aircraft Flight Planning and Operating Procedures
Richard Sowden, Air Canada Flight Operations
- 8:50 Ground Support Equipment and Emission Reductions
Teresa Ehman, Air Canada
- 9:10 Fuel Conservation – Operational Procedures for Environmental Performance
David Anderson, Boeing Commercial Airplanes
- 9:30 Questions for Panel

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Flight Operations – Part Two

- 10:00 Break

Moderator/Chair: Saleem Sattar, *Transport Canada*

- 10:30 IATA Fuel Efficiency Campaign
Juergen Haacker, *IATA*
- 11:00 Future Aviation Fuels
Mike Farmery, *Shell*
- 11:30 Research on Emission Reductions
Dr. Ian Waitz, *Professor of Aeronautics and Astronautics
FAA/NASA/TC – Centre of Excellence*
- 12:00 Lunch



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Airport Panel

Moderator/Chair: Fred L. Jones, *Canadian Airports Council*

- 13:30 **Airport Infrastructure Enhancements**
Leanne Shewchuk, Winnipeg International Airport
- 13:45 **Airport Air Quality Management – Vancouver International Airport**
Anne Murray, Vancouver International Airport Authority
- 14:00 **Airport Air Quality Study – LBPIA-Toronto**
Randy McGill, Manager, Environment, Greater Toronto Airport Authority
- 14:15 **Questions for Panel**
- 14:30 **Refreshment Break**



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Airport Panel

- 14:45 **Workshop Summary and Path Forward**
Catherine Higgins, *Transport Canada* and Panel Moderators
- 15:30 **Closing Remarks**
Alec Simpson, *Transport Canada*



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