

WORKSHOP ON AVIATION OPERATIONAL MEASURES FOR FUEL AND EMISSIONS REDUCTION



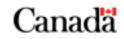






Workshop Objectives

Alec Simpson Transport Canada





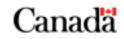








ICAO Circular 303, on Operational ullet**Opportunities to Minimize Fuel Use**







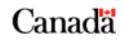






Circular Objectives

- 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







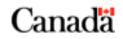






ICAO Circular Objectives

- 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





Workshop Objectives

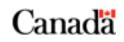








- Highlight best practices and practical solutions published in the ICAO Circular 303 Operational Opportunities to Minimize Fuel Use and Reduce Emissions
- Provide a forum for experts and stakeholders to exchange ideas and develop partnerships to maximize potential benefits











Introductory Panel

Welcome Remarks 9:00 Ron Sully, ADM Programs, Transport Canada Transport Canada Perspective – 9:10 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 Alternative Fuels, Aviation and 9:40 the Environment Lourdes Maurice, Federal Aviation Administration 10:00 Break **Introductory Panel** Montreal, 20-21 September 2006

Canada











Moderator/Chair: Dom Sepulveda, Pratt & Whitney

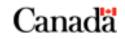
 10:30 Engine Deterioration and Maintenance Actions

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













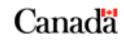
Air Traffic Management Panel

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













Flight Operations – Part One

Moderator/Chair: Alain Joselzon, Airbus

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















Flight Operations – Part Two

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

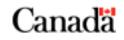
8:30 Aircraft Flight Planning and Operating Procedures

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











Flight Operations – Part Two

10:00 Break

Moderator/Chair: Saleem Sattar, Transport Canada

- 10:30 IATA Fuel Efficiency Campaign Juergen Haacker, IATA
- **Future Aviation Fuels** 11:00 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











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













Airport Panel

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

Alec Simpson, Transport Canada

