



**Montreal, Canada**  
**22<sup>nd</sup> – 24<sup>th</sup>**  
**September,**  
**2015**

# "Sustainability 2015"

## The Conference Themes

- 1. Innovative Air Vehicle Eco-design Concepts**
  - a. New material technology developments
  - b. Aerodynamics advancements
  - c. More electric aircraft
- 2. Eco-design Tool Developments**
  - a. Enhanced design tools and methodologies (including CAD/CAM)
  - b. Optimization techniques (MDO) for sustainability
  - c. Aviation Life-Cycle Analysis (LCA) methodology improvements
- 3. Environmentally-friendly Manufacturing & Green Supply Chain**
  - a. Manufacturing technology developments
  - b. Management of manufacturing and chemical waste (recycling)
  - c. "Green" as a Lean (economic) enabler
  - d. Greener aerospace supply chain (forward & reverse logistics)
- 4. Powerplant Advancements**
  - a. Propulsion technology developments
  - b. Challenges to retrofitting the existing fleet for sustainability
- 5. Alternative Fuels & Sustainable Operations**
  - a. Greener fuels
  - b. Operational best practices for sustainability
  - c. Environmental aspects of Maintenance/Repair/Overhaul (MRO)
  - d. Route optimization technology
  - e. End-of-service life issues (Recycle/reuse/remanufacture/safe disposal)
- 6. Noise in the Community**
  - a. Psychoacoustic aspects of helicopter noise
  - b. Noise abatement lessons learned from the fixed-wing community

*Conference will include key-note speakers, panel discussions, invited technical papers and industrial exhibitions.*