

**Agenda - Turbine Noise Workshop**  
**May 8-9, 2008**  
**Westin Bayshore Hotel, Vancouver, BC**

**Thursday, May 8<sup>th</sup> (Cypress Room and Stanley Park Foyer)**

- 7:30-8:15 Breakfast & Registration
- 8:15-8:30 Welcoming Remarks Ann Heyward (OAI/AARC)
- 8:30-9:00 Background and Introduction to Workshop Doug Mathews (Retired P&W)
- 9:00-9:40 “The Turbine Noise Challenge: Why is it so Difficult?” Eric Nesbitt (Boeing)
- 9:40-10:20 “Turbine Noise in Context – a Rolls-Royce Perspective”  
Alastair Moore & Andrew Kempton (Rolls-Royce)
- 10:20-10:35 Break
- 10:35-11:15 “Snecma Overview of Turbine Tone Noise Issues” Maxime Lebrun (Snecma)
- 11:15-12:00 “Turbine Noise Research at Avio” Claudia Schipani (Avio)
- 12:00-1:00 Lunch Buffet (Oak Room)
- 1:00-1:45 “The Importance of Turbine Noise for Auxiliary Power Units”  
Chuck Royalty & Dan Brown (Honeywell)
- 1:45-2:30 “Turbine Noise Reduction by Design: Numerical Studies on the Influence of  
Blade/Vane Numbers and Lean Angle” Fritz Kennepohl (MTU)
- 2:30-2:45 Break
- 2:45-3:30 “Linearized CFD Techniques Applied for Low Tonal Noise Designs in Turbines”  
Adolfo Serrano (ITP)
- 3:30-4:15 “A Numerical Investigation of Turbine Noise Source Hierarchy and Its Acoustic  
Transmission Characteristics” Dale Van Zante & Ed Envia (NASA GRC)
- 4:15-5:00 “Turbine Noise Evaluations from the NASA EVNERT Program”  
Bill Schuster & Don Weir (Honeywell)
- 6:30-8:30 No host dinner (location to be announced)

**Friday, May 9<sup>th</sup> (Cypress Room)**

- 7:30-8:00 Breakfast
- 8:00-8:40 “Experimental Radial Mode Decomposition in the Outlet of a LP Turbine”  
Lars Enghardt (DLR), Antoine Moreau (DLR), and Fritz Kennepohl (MTU)
- 8:40-9:20 “Empirical Models for Predicting Turbine Noise” Bruce Morin & Oliver Atassi (P&W)
- 9:20-10:00 “CAA Simulation of Engine Tone Broadening” Roland Ewert (DLR)
- 10:00-10:15 Break
- 10:15-10:55 “A Weak Scattering Model for Turbine Tone Haystacking Outside the Cone of Silence”  
Brian Tester, Christopher J Powles, and Alan McAlpine (ISVR)
- 10:55-12:30 Open Forum, Recommendations for Future Work, and Wrap-up
- 12:30 Adjourn