

**University of Cambridge/MIT/PARTNER  
Aviation and the Environment Research Workshop  
8-10 January 2008**

**Workshop background:** Related research into environmental impacts of aviation is on-going at the University of Cambridge Institute for Aviation and the Environment (especially the Aviation Integrated Modelling project) and PARTNER. The Cambridge-MIT Institute Partnership Programme has funded two workshops during 2008 (this one at MIT, the other at Cambridge later this year) to facilitate knowledge transfer and to identify areas where future collaboration may be mutually beneficial.

**Further information:** [www.AIMproject.aero](http://www.AIMproject.aero) | [www.partner.aero](http://www.partner.aero)

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**Agenda**

**All sessions will take place in the MIT Aero-Astro Department, Room 33-116  
(see <http://whereis.mit.edu/map-jpg?mapterms=33-116&mapsearch=go>)**

**Day 1: Tuesday, 8 January 2008**

8:30-9:00	<b>Continental Breakfast incl. Tea/Coffee, Welcome</b>
9:00-10:00	<b>Session 1: Overviews</b> <ul style="list-style-type: none"> <li>• University of Cambridge Aviation &amp; Environment Research (Andreas Schäfer, UCam)</li> <li>• AIM Model Overview (Andreas Schäfer, UCam)</li> <li>• PARTNER Aviation &amp; Environment Research (Ian Waitz, MIT)</li> <li>• APMT Model Overview (Ian Waitz, MIT)</li> </ul>
10:00-11:15	<b>Session 2: Demand Modelling</b> <ul style="list-style-type: none"> <li>• AIM: Air Transport Demand Module (Lynnette Dray, UCam)</li> <li>• APMT: Partial Equilibrium Block (Richard Hancox, MVA)</li> </ul>
11:15-11:30	<b>Tea/Coffee Break</b>
11:30-13:00	<b>Session 3: Aircraft Technology Modelling</b> <ul style="list-style-type: none"> <li>• AIM: Aircraft Technology and Cost Module (Maria Vera-Morales, UCam)</li> <li>• APMT: Environmental Design Space (Michelle Kirby, GaTech)</li> </ul>
13:00-14:00	<b>Lunch</b>
14:00-15:30	<b>Session 3 (cont'd) PARTNER: Alternative Fuels (Jim Hileman, MIT)</b> <b>Session 4: Airport Operations Modelling</b> AIM: Airport Activity Module (Antony Evans, UCam)
15:30-16:00	<b>Tea/Coffee Break</b>
16:00-17:30	<b>Session 5: Airspace Operations Modelling</b> <ul style="list-style-type: none"> <li>• AIM: Aircraft Movement Module (Tom Reynolds, UCam)</li> <li>• APMT: Flight Operations Module and AEDT (Gregg Fleming, Volpe)</li> </ul>

**Day 2: Wednesday, 9 January 2008**

8:30-9:00	<b>Continental Breakfast incl. Tea/Coffee</b>
9:00-11:00	<b>Session 6: Local Environment Modelling</b> <ul style="list-style-type: none"> <li>• AIM: Local Air Quality &amp; Noise Module (Steven Barrett, UCam)</li> <li>• APMT: Emissions Dispersion Modeling (Tudor Masek, MIT)</li> <li>• PARTNER: Emissions Measurements (Aerodyne Research Inc.)</li> </ul>
11:00-11:30	<b>Tea/Coffee Break</b>
11:30-13:00	<b>Session 7: Global Environment Modelling</b> <ul style="list-style-type: none"> <li>• IAE: Global Climate Modelling Activities (Marcus Köhler, UCam)</li> <li>• AIM: Global Climate Module (Marcus Köhler, UCam)</li> <li>• APMT: Climate Benefits Valuation Block (Anuja Mahashabde, MIT)</li> </ul>
13:00-14:00	<b>Lunch</b>
14:00-15:00	<b>Session 8: Impact Assessment</b> <ul style="list-style-type: none"> <li>• AIM: Regional Economics Module (Zia Wadud, UCam)</li> <li>• APMT: Local Air Quality Benefits Valuation Block (Elza Brunelle-Yeung, MIT)</li> </ul>
15:00-15:30	<b>Tea/Coffee Break</b>
15:30-17:00	<b>Session 8 (cont'd)</b> <ul style="list-style-type: none"> <li>• APMT: Noise Benefits Valuation Block (Chris Kish, MIT)</li> <li>• PARTNER: Health Impacts Research (Jon Levy, Harvard School of Public Health)</li> </ul>
19:00	<b>Workshop Dinner (MIT Faculty Club, 50 Memorial Drive)</b>

**Day 3: Thursday, 10 January 2008**

8:30-9:00	<b>Continental Breakfast incl. Tea/Coffee</b>
9:00-11:00	<b>Session 9: Integration Status &amp; Sample Problems</b> <ul style="list-style-type: none"> <li>• AIM: Integration methodology (Steven Barrett, UCam)</li> <li>• AIM: US Case Study (AIM team, UCam)</li> <li>• APMT: Modelling Assessment Efforts (Doug Allaire, MIT)</li> <li>• APMT: NOx Sample Problem (Anuja Mahashabde, MIT)</li> </ul>
11:00-11:30	<b>Tea/Coffee Break</b>
11:30-13:00	<b>Session 10: Future Directions</b> <ul style="list-style-type: none"> <li>• AIM: Future Plans (Andreas Schäfer/Tom Reynolds, UCam)</li> <li>• PARTNER: Future Plans (Ian Waitz/Stu Jacobson, MIT)</li> <li>• Opportunities for collaboration</li> <li>• Conclusions</li> </ul>
13:00	<b>Adjourn</b>