

TRB Environmental Impacts of Aviation Committee (AV030)
Monday, January 14, 2008
Washington, DC

Participants:

Brian Kim, Wyle	John Pehrson, CDM
Mary Vigilante, Synergy Consultants	David Bell, Aviation & Env't News
Micah Downing, Blue Ridge Research	Natalia Sizov, Wyle
David Nielson, Boeing	Lawrence Fabian, Trans.21
Suzanne Geckle, CH2M Hill	Tom Klin, CH2M Hill
Mary Ellen Eagan, HMMH	Nate Brown, FAA
Carl Burleson, FAA	Julie Draper, FAA
Dean Mericas, CH2M Hill	Cheryl Koshuta, Weston Solutions
Marcia Bowen, Normandeau Associates	Norah Hillary, Aviation Statistics Centre
John Putnam, Kaplan, Kirsch & Rockwell	Roger Wayson, US DOT-Volpe Center
Vivek Kumar, GMU	Nicholas Jaggars, Booz Allen Hamilton
Kristi McKenney, Port of Oakland	Douglas Smith, ENSR Corp/AECOM
Mike McNerney, DMJM Aviation	Larry Goldstein, TRB-ACRP
Ken Stackpoole, FIT	Gail Staba, TRB-ACRP
Gina Barberio, US DOT-Volpe Center	Jennifer Salerno, Booz Allen Hamilton
Jeffrey Wood, McFarland Johnson	Janell Barrilleaux, DIA
Rachel Nathman, Univ. of Delaware	Gene Peters, Ricondo & Assoc.
Judith Patterson, Concordia Univ.	Christopher Osburn, Booz Allen Hamilton
Sarah Townsend, VHB	Rebecca Jablon, CDM
Joel Zhengyi Shou	Gregg Fleming, US DOT-Volpe Center
Douglas Barrett, HMMH	Kate Quinn, US DOT
Jennelle Derrickson, FAA WJH Tech Center	Steven Davis-Meldelow, Bombardier
Suzanne Berman, MWH	Darcy Zarubiak, Jacobs Consultancy
Richard Altman, CAAFI	Jessica Steinhilber, ACI-NA
Katherine Andrus, ATA	Burr Stewart, Port of Seattle

1. Welcome and Introductions

Jim Crites, Aviation Group Chair, welcomed participants. Katherine Andrus, Committee Chair, welcomed participants. She provided a background on the formation of the Committee and its accomplishments, including formation of subcommittees. Participants introduced themselves. Attendees are encouraged to complete a form to join the Committee.

2. Committee Business

Mary Ellen Eagan will become Chair of the Committee in 2008. Entire Committee up for rotation next year. Those who have been active will be reappointed. Terms are 3 years and members can hold 3 consecutive terms. Those interested in joining have this opportunity to become involved with new openings.

3. **TRB Update**
Christy Gerencher, TRB Staff, provided an Aviation Group Newsletter. TRB is experimenting with webinar technology and is looking for Committees to develop ideas for webinars. \$99 site fee for participation. Participants were encouraged to attend the Aviation Caucus Monday evening.
4. **Report on 2007 midyear meeting and plans for 2008 midyear meeting**
2007 midyear meeting in Denver included climate change session, focused on status of research and science related to aviation and climate change. Climate change critical issues paper under development and new subcommittee established. Presentations are (or soon will be) uploaded on the committee website.

2008 midyear meeting will be in Toronto (or Montreal as backup) in May, dates TBD.
5. **Paper Review for Annual Meeting**
Brian Kim managed paper review in 2007. We could consider jointly reviewing papers submitted to related committees. Participants are welcomed to encourage people to submit papers to the committee.
6. **Critical Issues Papers**
Papers published as e-circular through TRB. Serves as a compendium on media specific topics (e.g., noise, water). The Committee has been working on adding 2-3 papers (climate change, alternative fuels, life-cycle analysis). We will aim to provide draft sections to TRB by the beginning of summer. Current papers also need to be updated and reviewed. David Bell will lead that process by sending current papers to the original authors/reviewers. Katherine will circulate a link to the current papers
7. **Research Needs Database**
TRB required the committee to enter research needs into the database. John Pehrson and Brian Kim entered several research needs statements on behalf of the committee based on the Critical Issues Papers. Additional ideas can be sent to John for uploading. Those interested in conducting research can look to the database for ideas. The database can also hold ACRP statements that were not funded. The database went live to the public in September. A committee review process may need to be established for future research ideas. Katherine will circulate a link to the database.
8. **Subcommittee Reports**
No subcommittee membership requirements, open to all interested participants. Subcommittees are also given meeting time at the Annual Meeting which allows time for in depth discussion on particular topics.

Climate Change – John Putnam. Presentations from Boulder/Denver available on AV030 website, critical issues paper under development, session on Tuesday focused on carbon offset programs, subcommittee meeting will also be held Tuesday. Want to develop list of links, sources, research on aviation and climate change for website.

Sustainability – Burr Stewart. Met Monday morning and have held meetings and conference calls over the last year.

Aircraft Noise – Micah Downing. Met Monday morning. Several PARTNER projects currently underway focused on noise. Sonic boom also discussed. Looking to better coordinate with other committees.

Kate Quinn (section chair for Environment and Energy Section Group). Planning mega-meeting in 2010. Want to have all modes represented. They welcome assistance in planning.

TF on climate change and energy met this morning. They examined the landscape of TRB coverage of climate change and energy issues. The TF seeks this Committee's input and ideas on annual meeting sessions. There will be 2 energy committees in the future. Nate Brown will be our liaison. Energy and Climate Change will be the spotlight theme of the 2009 TRB Annual Meeting. Commercial Aviation Alternative Fuels Initiative was in part set up based on the work of this committee and represents the growing attention decreasing energy dependence.

9. **Airport Cooperative Research Program (ACRP) Update**

Gail Staba, ACRP Staff, gave an overview of ACRP. 94 projects are underway or completed. 14 of those are environmental projects. Solicitation for new research ideas will go out in February with problem statements due in April. The oversight committee will meet in July to select the next round of projects. Project oversight panels will meet in August. In a draft FAA reauthorization bill, ACRP may become permanent with \$5M dedicated to environmental issues.

10. **Roundtable on Current and Emerging Issues**

- Tradeoffs between noise and emissions (and between different emissions).
- Airport planning studies and environmental impact statements – the public is confused about various sources and the associated risks.
- ACI working on sustainability framework focused on the industry as a whole. Anyone interested can talk to Kristi McKenney.
- Promoting analysis of studies that assess aviation's contribution to climate change. Possible session on how numbers are communicated. 12% - aviation's contribution to transportation. 2-3% - aviation's contribution to all man-made sources. "The Politics of Climate Change."
- FAA Tech Center looking for opportunities for grad students to work on alternative fuel projects for 3-6 months. They will coordinate with FAA.
- LIDAR workshop held with Europe. Ralph Iovinelli and Roger Wayson are organizing 2 sessions on aviation and environmental issues at the AWMA Conference in Portland in June.
- Recent court decisions concerning addressing climate change in EISs.
- MSP-related noise litigation revealed significant gaps in research on supplemental metrics to address noise outside 65 DNL.
- David Bell put together collection of aviation sustainability resources.

- Can the benefits of supplemental metrics be identified and realized?
- Need other ways to describe impacts of emissions.
- Panel on making the aviation industry sustainable.
- AAAE Air Quality conference focusing on greenhouse gases and climate change will be held at the end of January.
- ACI-NA task force developing best practices document on integration NEPA and Planning.
- Monetization or other way to normalize environmental impacts.
- Airports becoming intermodal facilities and places of business. Land-side emissions compared to air-side emissions, particularly GHGs. PRT going into use at Heathrow soon.
- Relationship between NEPA and sustainability.
- Need to create better access to sources of information on aviation sustainability.
- Need common lexicon sustainability.
- Reduced use of noise abatement procedures to address fuel usage.
- FAA willing to accept a common definition of sustainability and incorporate it into their EMS approach.
- NextGen – establishing environmental metrics.
- National Parks – FAA working with Parks Service on noise issues.
- Airports focused on water quality and deicing issues.
- Noise outside DNL 65 continues to be an issue for airports, including balance of economic impacts.
- FAA encourages partnership as they continue to work on NextGen.
- Rich Altman can provide more information on CAAFI.

11. **Adjourn**