

**Meeting Summary**  
**TRB Transportation Air Quality Committee (ADC20)**  
**New Orleans, Louisiana**  
**June 20, 2006, 9:00am**  
**Bob O'Loughlin, chair**  
[www.trbairquality.com](http://www.trbairquality.com)

**PARTICIPANTS**

**Kevin Black, Harold Brazil, Michael Claggett, Shauna Hallmark, Cecilia Ho, Jeff Houk, Bob O'Loughlin, Fengxiang Qiao, Guido Schattaneck, John Suhrbier, Seungju Yoon.**

**By phone:**

Jeffrey Ang-Olson  
Brian Bochner  
Mike Fiegen  
Julia Gamas

Pat Kinney  
Chris Klaus  
Becky Lupes  
Karen Perritt

Chris Sarricks  
Jim Wilson

**DISCUSSIONS (Assigned member actions in yellow)**

**ADC20 January 2007 Sunday Workshop**

Shauna Hallmark described ideas for a full or half day workshop. It is proposed to focus on project level environmental analysis, including requirements, tools, and practices and trends. FHWA is working on draft NEPA guidance. FHWA and EPA have draft guidance out on PM and air toxics hot spot analysis which could be a topic to cover.

*(All members)* Shauna requested ADC20 members to help her organize the workshop. She also requested suggestions for specific agenda items, speakers, and participants to invite. Please send your input to Shauna by e-mail ([shallmar@iastate.edu](mailto:shallmar@iastate.edu)).

**ADC20 January Meeting Sessions**

ADC20 is expected to again be given 2 1/3 sessions; that is two sessions plus 1/3 session with which to co-sponsor a session with two other committees. The committee discussed ideas for the sessions without selecting topics:

- Full sessions (suggested subtopics in parentheses; preferred topics marked with asterisks)
  - Health effects of air toxics, diesel (results from new research; perhaps include a Robert Wood Johnson speaker although their research is healthy activity oriented and not directly air quality related)
  - MOVES model, microsimulation for air quality analysis (it was agreed that this should be saved for the summer 2007 meeting – see below)
  - \*\* Implemented diesel reduction strategies (school bus, incentives and strategies, anti-idling/idling reduction and their effects on emissions; address both on- and non-road)
  - US-95 Las Vegas project court ruling follow-up studies (PM, etc.)

- (for co-sponsored session?) Hybrid vehicles and alternative fuels and related technologies (possibly co-sponsor with TRB energy committee); **Becky Lupes/Julia Gamas offered to help with this topic if selected**
  - \*\* (for co-sponsored session?) Effect of global climate change related to major storms and what transportation agencies can do to respond (include results of ongoing FHWA study; **Bob O'Loughlin to contact FHWA project manager Mike Savonis**)
- Co-sponsored sessions
    - \*\* (with energy committee) Hybrid vehicles, alternative fuels (see above)
    - Effects of climate change on air quality (see above)
    - (approached by Airports committee to do workshop; invitation declined) environmental impacts of airports
    - (approached by task force on national parks and public lands) vehicle emissions on class 1 areas
    - (approached by committee on low volume roads – emissions on low volume roads, dirt roads)

**(all members) Please send you suggestions to Bob O'Loughlin by July 7; ADC20 session topics due to TRB July 31.**

### **ADC20 Summer 2007 Meeting**

TRB has approved a summer meeting that ADC20 will put on tentatively July 9-11, 2007 in Orlando, Florida. Shauna Hallmark chaired a subcommittee to develop a concept for the meeting (propose topics, locations, co-sponsors, etc.). The meeting would be a joint meeting with the ASCE air quality committee. The meeting would be 2½ days, including some time for ASCE sessions. About 80 papers/presentations would be needed. It was agreed that papers could either be standard TRB type papers or “expanded abstracts” of 3-5 pages that would contain summaries of presentations. Several committee members volunteered to assist to organize sessions on:

- Alternative fuels
- MOVES
- Impacts of smart growth
- Health effects of air pollution

Bob O'Loughlin said that FHWA will provide about \$14,000 in funding, but more funds are needed. Iowa State will handle some of the meeting logistics. Other co-sponsors so far include Georgia Tech, ASCE, EPA and the Air and Waste Management Association. ASCE will compile and print the papers.

A Disney Hotel has been found and the committee is almost ready to sign a contract. We will have three meeting rooms, so three concurrent sessions can be held.

An attendance of 70-100 or more is needed to break even. Bob is expecting all members to attend.

**(all members) Send any funding suggestions to Bob O'Loughlin. Also send your ideas for session topics to Bob or Shauna.**

## **ADC20 Website**

Becky Lupes' good work on the ADC20 website was noted ([www.trbairquality.com](http://www.trbairquality.com)). She said she still has to select and add the research paper section.

## **FHWA PM Research Program**

Kevin Black presented a summary of FHWA's research on PM. Some related research conducted under other sponsorships was also included. Kevin noted that FHWA's research is oriented to on-road mobile sources. He also noted that it now appears that some of the PM and air toxics precursors are related. NO<sub>x</sub> is one of the PM precursors. The slides are posted at [www.trbairquality.com](http://www.trbairquality.com).

## **ADC20 Research Priorities**

FHWA is in the process of putting together its air quality research priorities and has requested suggestions from ADC20. FHWA's air quality research through 2009 will be funded from the STEP program (see STEP website at [www.fhwa.dot.gov/hep/step/index.htm](http://www.fhwa.dot.gov/hep/step/index.htm)). It appears that the program will have about \$12M annually through 2009 to fund research in both planning and environmental fields; no other FHWA funds will be available for research in those areas. The STEP program will require a 50% match for grants and cooperative agreements.

The STEP program has five emphasis areas:

- Environment, including air quality, natural (including affects of climate change), human
- Planning, including national and international, state, regional, local, tribal
- Tools to support planning and environment, such as modeling, planning
- Program management and outreach

Committee discussion on research topics was led by Shauna Hallmark who led a subcommittee to identify research priorities. The subcommittee's suggestions were mostly oriented to project level analysis, and included:

- Highest priority
  - Validate/update PM<sub>2.5</sub> modeling for project level analysis (NCHRP or STEP funding?)
  - Validate/update air toxics modeling for project level analysis (NCHRP or STEP funding?)
  - Comparison of dispersion models for future use
- Second priority
  - Provide additional guidance and cost for construction PM<sub>2.5</sub> impact mitigation
  - Project level PM<sub>2.5</sub> mitigation
  - Uncertainties associated with emission factors and related model inputs
  - (if needed) transition steps for conversion from MOBILE6 to MOVES
- Suggestions by other ADC20 members

- Benefits of public education/outreach programs (Brian Bochner and Chris Klaus to prepare draft research problem statement)

Shauna asked for volunteers to help prepare research problem statements. Please contact Shauna if interested in helping.

### **Other Discussion**

2007 annual meeting paper reviews – Rob Ireson is heading that effort. He is in the process of working up a matrix of ADC20 member specialties to aid him in assigning papers. Bob will share the matrix with ADC20 members and friends to update their topic areas of expertise.

There was an inquiry about progress of the TCM subcommittee. Bob will follow-up with Mohan.