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SUMMARY OF COMMITTEE MEETING

**Committee ADC 20 Transportation and Air Quality
Tuesday, January 13, 2009, 8:00-9:45am
Washington Hilton, 1919 East Room, Washington, DC**

1. Attendance (list below or attach)

Members	Visitors
<ul style="list-style-type: none">• Bob O'Loughlin, FHWA (chair)• Cecelia Ho, FHWA (Treasurer)• Brian Bochner, Texas Transportation Institute (Secretary)• Michael Krimmel, Northern Virginia Community College• Robin North, Imperial College London• Phillip Sheehy, TIAX LLC• John Storey, Oak Ridge National Laboratory• Chris Klaus, North Central Texas COG• Jeffery Ang-Olson, ICF International• Julia Gamas, EPA• Lei Yu, Texas Southern University• Jane Lin, University of Illinois, Chicago• Joddie Gray, Urbitrans Consultants• Shauna Hallmark, Iowa State University• Doug Eisinger, STI/UCD-Caltrans AQP• Kevin Black, FHWA• Kanok Boriboonsomsin, University of California, Riverside	<ul style="list-style-type: none">• Rob Kafalenos, FHWA• Jelena Matio, AKRF• Robert Kaiser, Michael Baker, Jr., Inc.• Bill Oberman, Urbitrans Consultants• James Shrouds, Cambridge Systematics• Mark Simons, EPA• Karen Geise, PTV America, Inc.• Alex Bigazzi, Portland State University• Nino Brunello, Ohio DOT• Karen Perritt, FHWA Resource Center• N.C. Balijepalli, University of Leeds• Michael Grant, ICF International• Mark Carr, AEP River Operations• Chris Dresser, EPA• Jon Makler, OTREC• Liz Brisson, Metropolitan Transportation Commission• Mike Roberts, FHWA• Robert D'Abadie, Michael Baker, Jr., Inc.• Michael Claggett, FHWA Resource Center• Doh-Won Lee, Texas Transportation Institute• Theodore Ehlich, AECOM• John Byum, FHWA Resource Center• Guohua Song, Beijing Tiaoting University• Heng Wei, University of Cincinnati• Rich Denbow, AMPO• Erin Morrow, Metropolitan Washington COG• Sarah Siwek, Sarah J. Siwek & Associates, Inc.• Sue Kimbrough, US EPA• Matt Barth, University of California, Riverside• Yilin Liu, Cornell University• Jim Wilson, Pechan

2. Agenda (attached)

3. General Items for the Record

Announcements made by Section Chair Kate Quinn and Staff Liaison Christy Gerencher:

- TRB is trying to make more use of web-based meetings and webinars in recognition of travel cost considerations.

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- 2010 annual meeting theme will be “Investing in the Transportation Future – Bold Ideas to Meet Big Challenges.” Expected areas of concentration will include finance, safety, environment, infrastructure, etc.
- TRB is about to start a website to identify possible funding for research as an addition to proposed research.
- The age limit for young members has been raised to 35; each committee can have two such members that do not count toward the limit of 25. Each committee may also have up to 5 international members that do not count among the 25. Canadians are now counted as international.
- The 2010 summer meeting for planning and environmental committees will be in North Carolina (site TBA). Tentative topics would include:
 - Land use and transportation
 - Sustainability
 - Climate change
 - Environmental management systems
 - Context sensitive solutions
 - Financing/funding
 - Project delivery
 - Data management

4. Committee Program

The following sessions were sponsored or co-sponsored by ADC20. The lead committee is shown in the second column. The details of the three sessions with ADC20 as lead sponsor are shown below (source: TRB website).

100	A0020T	Climate 101: Basics of Climate Change	M	Sunday, 8:00 AM–12:30 PM
142	A0020T	Climate Change and Transportation 101	M	Sunday, 1:30 PM–4:30 PM
174	ADC10	Conduct of Transportation Environmental Research: What You Should Know About Getting It Done--Will Detailing the Process Yield Future Progress?	H	Sunday, 1:30 PM–5:00 PM
233	ADC20	U.S. Environmental Protection Agency Motor Vehicle Emission Simulator: Model Update	H	Monday, 8:00 AM–9:45 AM
364	ADC20	Integration and Co-Benefits of Climate Change Mitigation Policies	H	Monday, 3:45 PM–5:30 PM
469	ADC00	Environment and Energy	H	Tuesday, 9:30 AM–12:00 PM
530	ADC20	Incorporating Greenhouse Gas Considerations into Transportation Project and Metropolitan Planning Requirements	H	Tuesday, 1:30 PM–3:15 PM
740	ADC70	Biofuels, Part 1: The Good, the Bad, and the Ugly (Part 2, Session 765)	H	Wednesday, 2:30 PM–4:00 PM

Session 233 - U.S. Environmental Protection Agency Motor Vehicle Emission Simulator: Model Update, Monday, January 12, 2009, 8:00 AM - 9:45 AM, Hilton, Megan Beardsley, U.S. Environmental Protection Agency, presiding.

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Sponsored by:

Transportation and Air Quality Committee (ADC20)

Note: U.S. EPA will discuss the latest developments in the most significant update of an emissions model ever undertaken. The Motor Vehicle Emission Simulator (MOVES) model will become the official regulatory and planning model in the near future. This session will provide an understanding of how the MOVES model works, along with a demonstration, and the status of when practitioners will be required to use the MOVES model.

- **Major Differences Between MOVES Demo Version and MOVES Draft Version (P09-0090)**
Megan Beardsley, U.S. Environmental Protection Agency
- **MOVES Design Concepts and Making the Transition to MOVES (P09-0785)**
Gary J. Dolce, U.S. Environmental Protection Agency
- **Introduction to MySQL/MOVES Demonstration (P09-0789)**
Jeff Houk, Federal Highway Administration
- **Questions and Answers and Next Steps (P09-0791)**
Megan Beardsley, U.S. Environmental Protection Agency

Session 364 - Integration and Co-Benefits of Climate Change Mitigation Policies Monday, January 12, 2009, 3:45 PM - 5:30 PM, Hilton, Todd Alexander Litman, Victoria Transport Policy Institute, Canada, presiding.

Sponsored by:

Transportation and Air Quality Committee (ADC20)

Transportation and Sustainability Committee (ADD40)

Transportation Demand Management Committee (ABE50)

Transportation Economics Committee (ABE20)

Transportation Energy Committee (ADC70)

Note: Sustainable transportation planning requires balancing economic, social, and environmental objectives. Many transportation energy conservation and emission reduction strategies have indirect impacts. This session examines these impacts and how they can be incorporated into policy analysis and planning.

- **Benefits and Unintended Impacts in Benefit-Cost Analysis Accounting (P09-0682)**
Douglass B. Lee, Volpe National Transportation Systems Center
- **Economic Co-Benefits of Smart Transportation Policies (P09-0683)**
Steve Winkelman, Center for Clean Air Policy
- **Regional On-Road Vehicle Tailpipe Emissions Modeling and Evaluation for Conventional and Alternative Vehicle Technologies (09-1481)**
H. Christopher Frey, North Carolina State University
Haibo Zhai, Carnegie Mellon University
Nagui M. Rouphail, North Carolina State University
- **Win-Win Emission Reduction Strategies: Smart Transportation Strategies Can Achieve Emission Reduction Targets And Provide Other Important Economic, Social and Environmental Benefits (P09-0684)**
Michelle Bell, Yale University
Todd Alexander Litman, Victoria Transport Policy Institute, Canada

Session 530 - Incorporating Greenhouse Gas Considerations into Transportation Project and Metropolitan Planning Requirements, Tuesday, January 13, 2009, 1:30 PM - 3:15 PM, Hilton, Douglas S. Eisinger, Sonoma Technology Inc, presiding

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Transportation and Air Quality Committee (ADC20)

Environmental Analysis in Transportation Committee (ADC10)

Note: This session explores what metropolitan planning organizations and state departments of transportation are doing to address the impacts of climate change. The presentations will look at efforts at the metropolitan level as well as at the transportation project level. This session also provides tools and resources available to assist local and state transportation agencies that are just starting efforts to address climate change.

- **Integrating Climate Change into the Transportation Planning Process (P09-0088)**
Diane Turchetta, U.S. Department of Transportation
- **Climate Change and Transportation Strategies in the Metropolitan Washington Region (P09-0089)**
Ronald F. Kirby, Metropolitan Washington Council of Governments
- **Addressing Climate Change in the State of Washington (P09-0326)**
Kelly McGourty, Puget Sound Regional Council
- **Documenting Climate Change Considerations in the National Environmental Policy Act Process for Transportation Projects in Colorado and Utah (P09-0347)**
Jeff Houk, Federal Highway Administration

5. Business

Officer Reports

Secretary Brian Bochner described the replacement website that should become functional in early February, courtesy of Joe Zietsman and Monica Beard-Raymond of the Texas Transportation Institute. It will have five main sections (home page, about the committee, committee activities, news of interest, and resources); see attachment for handout slides. Anyone interested in posting information should send it to Bob O'Loughlin. Bob announced that there will likely be a cost for site maintenance.

Treasurer Cecilia Ho reported a committee treasury balance of \$1274.40, with no activity during the past year.

Sunday Workshops and Sessions (sponsored by ADC20)

The committee sponsored and co-sponsored workshops and sessions are listed above. Bob O'Loughlin briefly described each one. Bob expects to post the presentations from each session on the committee website, pending presenter releases.

Paper Review Process

The committee has been receiving 40-50 papers each year. Julia Gamas reported that 46 papers were received for this meeting. Most papers were routed to ADC20 correctly, but a few may have been a bit off target. Of the 46 papers received, 25 were accepted for presentation (podium or poster), 18 were not recommended for presentation, and 3 were reviewed by the freight committee. One paper was recommended for publication and has been revised per comments and 10 others are being considered for publication pending revisions. Bob O'Loughlin will recommend a paper for a TRB award.

Subcommittee Reports

Summer Conference

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Shauna Hallmark and Bob O'Loughlin said abstracts and draft papers have been received for the summer conference, July 28-29 in Denver. A hotel has been booked. The registration fee will not be higher than \$250. A flyer will soon be sent. The primary theme will be climate change. A keynote speaker on climate change will be included in the program. Bob may invite some speakers from the 2009 annual meeting program to fill out the summer conference program.

Bob invited additional papers, abstracts, and suggestions which will be accepted until January 31, 2009. Among topics suggested were:

- Estimating air quality benefits of roundabouts using microsimulation
- New implementation rules for the new ambient standards
- Multi-pollutant analysis efforts pilot
- MOVES and EMFAC test results
- SIP strategies
- Alternative fuels deployment
- Goods movement air quality implications
- FHWA and EPA vehicle classification system coordination
- Freight patterns
- New nonattainment areas and their challenges
- New dispersion models
- Land use and air quality impacts of climate change
- Effects of international pollution and the USA
- Transportation reauthorization proposals

Other

There were no additional subcommittee reports.

Liaison Reports

- Brian Bochner, Transportation Demand Management (ABE50) – Lori Diggins is chair; Michael Grant is that committee's liaison to ADC20. The committee co-sponsored sessions on climate change and parking pricing. They are updating their suggested research needs to submit to TCRP. They are increasing coordination with ACT. It is suggested that coordination regarding GHG/climate change go through section chair Eric Schreffler or (secondary) Lori Diggins.
- Mike Lawrence, Energy and Alternative Fuels – not present
- Chris Klaus, Urban Transportation Data and Information Systems – no report
- Arnie Sherwood, Telecommunications – not present
- Julia Gamas, Environmental Analysis in Transportation Committee (ADC10) – This committee has a new chair and is seeking new members and activities. They had a research workshop. Julia described a related AASHTO website, resources, and webinars. They will co-sponsor a summer workshop.
- Roger Wayson, ASCE; Environmental Impacts of Aviation – not present
- Shauna Hallmark, AWMA – AWMA has its annual meeting the third week in June. They have two transportation-related committees and one on land use, all having sessions at the meeting.
- Veronica Davis, Transportation and Land Development – not present

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- John Koupal, Marine and Ports Environmental Task Force (Tom Watson, chair) – This committee had three sessions at this meeting and has been very active in the area of climate change.
- Robin North, International Transportation Issues – new European legislation may be of interest. PM regulations have recently been adopted.
- Mohan Venigalla, Planning for Small and Medium Size Communities – not present, but Bob O’Loughlin reported that the transportation air quality activities of this committee will be moved to the ADC20 subcommittee on the same subject.
- Randy Guensler, Congestion Pricing – not present
- Joon Byun, Highway Capacity and Quality of Service – no report

Roundtable Discussion

Bob O’Loughlin led a discussion about what should be the coming focus areas for transportation and air quality. Among suggestions were:

- Quick response project assessments regarding goods movement for which comparative impacts among modes are not well understood and for which there is little data.
- Implications of non-road emissions
- Impacts of alternative fuels deployment (some examples given for ethanol)
- Emissions impacts of new technologies
- Pay as you drive insurance test results (Chris Klaus reported that NCTCOG found about a 5% VMT reduction in their limited test during a period of moderate gasoline prices)
- Carbon footprint of freight modes
- Specific issues associated with MOVES details and implementation
- Comparison of MOVES and MOBILE6 estimates. What will be required to make MOVES work, including the transition from MOBILE6? Local data needs. (Bob noted that MOVES training will be offered and that it will include comparisons of results)
- Analysis of reliability/variability in operations and associated implications
- PM and toxics in project level analysis

Distribution of Minutes

Committee Members

Section Chair

Group Chair

TRB Staff Representative

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ATTACHMENT

Transportation and Air Quality Committee (ADC20) Meeting Agenda

Tuesday, January 13th, 2009

8:00 – 9:45 a.m.

Hilton Hotel (Please check TRB Program for room)

1. Call to Order/ Introductions/TRB Announcements (Bob O'Loughlin/Christy Gerencher) (10 mins.)
2. Approval of Meeting Minutes of January, 2008 (Attached)
3. Officers Reports (Cecilia Ho, Brian Bochner)
4. Report on the Sunday Workshop and Sessions (10 mins.)
5. Paper Review Process (Tracy Clymer/Jane Lin) (10 mins.)
6. Subcommittee Report (Mohan Venigalla, Shauna Hallmark) (10 mins.)
7. 2009 Summer Meeting- Transportation/Land Use Planning and Air Quality 2009 Conference in Denver, CO July 28& 29, 2009 (10 mins.)
8. Liaison Reports-
Brian Bochner, Transportation Demand Management;
Mike Lawrence, Energy and Alternative Fuels;
Chris Klaus, Urban Transportation Data and Information Systems;
Arnie Sherwood, Telecommunications;
Julia Gamas, Environmental Analysis in Transportation Committee;
Roger Wayson, ASCE; Environmental Impacts of Aviation;
Shauna Hallmark, AWMA;
Veronica Davis, Transportation and Land Development;
John Koupal, Marine and Ports Environmental Task Force;
Robin North, International Transportation Issues;
Mohan Venigalla, Planning for Small and Medium Size Communities;
Randy Guensler, Congestion Pricing;
Joon Byun, Highway Capacity and Quality of Service (30 mins.)
9. Roundtable Discussion- (1) What should be the focus areas for transportation and air quality research? (2) What interesting research projects are you working on? (30 mins.)
10. Adjourn

ATTACHMENT

Slides Describing Website Structure

TRB Air Quality Committee Website

Proposed Mock-up



Home Page

- Welcome
- Scope of Committee
 - “To examine the full range of relationships between transportation and air quality including regulatory and policy considerations, modeling practices, health effects, new technologies and transportation management strategies.”
- Announcements (upcoming meetings)
 - Annual TRB Meeting
 - Mid-Year Meeting
- Contact Us

About the Committee

- Objective
- Strategic Plan
- Member Roster
 - Members, Officers, TRB staff liaison, ?Friends?
- Subcommittees and task forces
 - Chairs, objectives, members
- Liaisons to other committees
- How to become a member or friend
 - Link to “Getting Involved in TRB”

Committee Activities

- Annual and Mid-Year Meetings
 - Upcoming meetings
 - Info on presentation sessions, poster sessions and special sessions
 - Past Meetings (by year)
 - Agendas and Summaries
 - Papers, presentations, etc.
- Subcommittee Meetings
 - Agendas, Summaries, Follow up
- Research Project Statements
 - Link to TRB’s Research Needs web page (<http://rns.trb.org/>)
 - Committee’s Research Needs webpage

News of Interest

Description: Page contains items submitted by members and friends listed in sequential order

- Announcements
 - TRB
 - FHWA
 - EPA
 - Others
- Cross links to related listservs (NEPA, performance measures, etc.)
- Contact for submission of items

Resources

- Related Web Pages
 - FHWA pages, EPA pages, etc.
- Related Organizations
 - Other TRB committees
 - Other related organizations (e.g.,- AASHTO Environment Committee, AWMA, NACAA)
- Select Documents of Interest

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Resources- Preliminary List

Related Web Pages

- [AASHTO- Center for Environmental Excellence- Air Quality](#)
- [DOE- Transportation Efficiency Page](#)
- [Energy Information Administration](#)
- [EPA- Office of Transportation and Air Quality](#)
- [EPA- Green Book of Nonattainment Areas](#)
- [EPA- State and Local Transportation Resources Page](#)
- [European Union- Air Quality Page](#)
- [FHWA- Air Quality Page](#)
- [FHWA Air Quality Resource Center](#)

Related Organizations

- [Transportation Research Board \(TRB\) Committees](#)
 - [TRB- Committee on Alternative Fuels \(ADC80\)](#)
 - [TRB- Planning and Environment Group Committees \(AD000\)](#)
- [AASHTO Standing Committee on the Environment](#)
- [Air and Waste Management Association \(AWMA\)](#)
- [National Association of Clean Air Agencies \(NACAA\)](#)

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Suggestions or Comments?

Please submit to:

Joe Zietsman
zietsman@tamu.edu

Or

Bob O'Loughlin
robert.o'loughlin@fhwa.dot.gov

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