

TRB Annual Meeting – ADC40 Committee Meeting (Transportation-Related Noise & Vibration)
Chair: Judith L. Rochat, US DOT / RITA / Volpe Center
Tuesday, January 13, 2009 (time 5:45 pm to 9:30 pm)
Washington Hilton Hotel

- I. Call to Order
- II. Welcome and Introductions of Members and Guests
- III. Eat dinner (boxed sandwich meals provided – reservation required through ADC40)
 - a. Presentation: *Innovative Design Concepts for Noise Barriers*, Liangwu Cai and Youki Wang, Kansas State University. Notes: Dr. Cai presented on a barrier structure that uses a set of tubes instead of solid wall. The attenuation mechanism is stated to be scattering.
- IV. Reports
 - a. ADC40 Summer Meeting – Key West, Florida, July 20-23, 2008 ... great job Mariano! Notes: Mariano Berrios received an official TRB certificate of appreciation for his efforts
 - b. Sunday ADC40 sponsored and co-sponsored workshops
 - Vibration Effects of Transportation Projects on Historic Properties (Rob Greene). Notes: ADC 40 and 50 looked at effects of vibration of historic buildings. There was equal representation between noise and architects. They discussed recommended standards for dealing with issues related to noise/vibration and historical structures. ADC 50 is interested in having another workshop next year.
 - Wayside Transit Noise and Vibration Methodologies and Criteria (Steven Wolf). Notes: Third workshop looking at wayside measurement methodologies outside of the manual. Include presentations from Mike S, Jim Nelson, Kevin K, and Roger Wayson.
 - Conduct of Transportation Environmental Research: What You Should Know About Getting It Done--Will Detailing the Process Yield Future Progress? (Adam Alexander). Notes: “Conduct of Transportation Environmental Research” Joe Shakowski is the Chair, for each panel/session there will be 1 state DOT, 1 researcher, and 1 Federal agency representative. The purpose is to get a better understanding of STEP et al process.
 - c. Subcommittee meetings
 - Guided rail and transit noise (Hugh Saurenman), Highway noise (Mark Ferroni), Aircraft noise (Micah Downing)
 - d. ADC40 paper award. Notes: During awards dinner the Harter Rupert best paper award was presented to Paul Donavan and Bruce Rymer, paper title: “Measurements of Vertical Distribution of Truck Noise Sources During Highway Cruise Passbys Using Acoustic Beam-Forming.”
 - e. Other
- V. Announcements
 - a. Remaining TRB Week Activities:
 - ADC40 session: Transportation-Related Noise: Wednesday, January 14, 10:15 am – 12:00 pm (Hilton)
 - AFK40 session: Noise Properties and Durability of Asphalt Mixtures, January 14, 10:15 am – 12:00 pm (Marriott)
 - b. 2009 Conferences
 - Acoustical Society of America – Portland, Oregon, USA, May 18-22
 - ADC40 Summer Meeting – Dayton, Ohio, USA, July 26-29. Notes: Flyer for meeting will soon be available at www.adc40.org .
 - Inter-Noise – Ottawa, Ontario, Canada, August 23-26 (abstracts due February 8!)
 - Euronoise 2009 – Edinburgh, Scotland, U.K., October 26-28
 - Acoustical Society of America – San Antonio, Texas, USA, October 26-30
 - Other. Notes: International rail noise conference at lake Miwa near Kyoto in Oct 2010, Aeroacoustics meeting on May 13th and an Airport Noise Meeting Oct 4-6.
 - c. TR News, 2009 Environmental Issue. Notes: ADC40 members provided 1 feature article (Nick Miller, Hugh Saurenman, Adam Alexander), 1 sidebar article (Judy Rochat), and 1 research pays off article (James Reyff); to be published in the April/May timeframe. Other TR News info: For future issues of TR News (beyond the environmental issue), they are looking for research pays off articles; for more information go to www.trb.org/trb/publications/rpo.asp .
 - d. Other
- VI. Presentations

- a. *Quiet pavements in Europe and Asia - latest findings*, Ulf Sandberg, Swedish National Road & Transport Research Institute (VTI)
- b. *TERI Database and NCHRP Research Proposals*, Center for Environmental Excellence by AASHTO, Wayne Kober, AASHTO Consultant

VII. Committee Work

- a. Official TRB business (Christy Gerencher, Kate Quinn)
- b. Research needs working group
 - Compiled research needs list, plans for 2009 project idea submittals, plans for updating TRB website
 - Notes: Wayne Jones produced a combined old and new list of research items. The group reviewed the older items and determined if they should still be on the list. Wayne Jones and Adam Alexander will work on a committee survey that allows people to review the full research needs list, allows for input to modifying or adding items, and allows ranking of the research needs items. ADC40 will work toward officially posting our research needs on the TRB website, learning more about the best ways to get the research funded, and pushing forward 1-2 items for each mode each year.
- c. Workshop and session ideas for winter 2010 TRB meeting
 - Rail notes:
 1. Historic preservation and noise and vibration session – another joint session (Rob Greene)
 2. Transit noise and vibration methodologies – another joint workshop (Steve Wolfe)
 3. Wheel squeal – joint session or workshop with wheel profile committee (possibly Jim Nelson)
 - Highway notes:
 1. Hydroacoustics – joint session or workshop (organizers already found)
 2. NEPA process, unique challenges
 3. Include highway in the historic preservation session listed under Rail
 4. Tire/pavement noise measurement methodologies or maybe just OBSI, joint workshop with AFD90, would involve equipment demonstrations (Rob Rasmussen)
 5. European pavement experience (?)
 - Aircraft notes:
 1. Supplemental aircraft noise metrics – joint workshop with AVO30
- d. Ideas for topics to discuss at committee meeting during 2009 ADC40 summer meeting
- e. Committee member rotation. Notes: Attendees were asked to speak with Judy Rochat if they are interested in being an official committee member. Rotations will occur April 2009.
- f. Triennial Strategic Plan (due November 2009). Notes: Judy Rochat will be working on the TSP and will likely be discussing this during the summer 2009 meeting.

VIII. Open Discussion on Topics of Mutual Interest

- a. Notes: www.adc40.org will soon have a trial forum for members and friends to have discussions; also, presentations from January 2009 workshops and committee meetings will be posted on the ADC40 website or joint organizing committees' websites

IX. Adjournment