Annual Meeting Transportation-Related Noise and Vibration Committee (ADC40)
Marriott Marquis, Independence E (M4)
Tuesday, January 12, 2016 8:00 AM - 12:00 PM

I. Welcome and Introduction of Members and Friends of ADC40 (15 minutes)

   a. TRB ADC40 dinner and paper award, Wednesday evening 6 PM to 9 PM,
   Old Ebbitt Grill, 675 15th Street, NW | Washington, DC 20005, $40/person
   (about a 20-minute walk from the Convention Center)

   b. Other general announcements

II. Reports on ADC40 sponsored events (50 minutes)

   a. Lectern Sessions (10 minutes)

      - 341 Approaches to Understanding and Controlling Rail-Generated Noise and Vibration (ADC40/AR055), Jason Ross. Monday 1:30 to 3:15 PM, Convention Center, 146A
      - 440 ADC40 Poster session, John Hencken, Monday 4:15 PM- 6:00 PM, Convention Center, Hall E
      - 735 Achieving Measurable Environmental Benefit as a Direct Result of Alternative Project Delivery (ADC10/ADC30/ADC40), Karel Cubick, Adam Alexander, Tuesday 7:30 PM- 9:30 PM, Convention Center, 146A
      - 838 Recent Developments in Understanding of Highway Noise and Implementation of Quieter Pavements (ADC40), Dayna Bowen, Wednesday 2:30 PM- 4:00 PM, Convention Center, 143B

   b. Workshop (10 minutes)
   873 Health Effects of Transportation Noise and Air Quality and Mitigation Strategies, (ADC20/ADC40), Jim Cowan, Ke Zhang, Roger Wayson, Thursday 8:00 AM- 12:00 PM, Convention Center, 209B

   c. Subcommittee Meetings (10 minutes each)

      i. ADC40(1)/AV030 Aircraft Noise Subcommittee Meeting, Tuesday 1:30 PM to 3:15 PM Natalia Sizov, Marriott Marquis, Independence E (M4)
      ii. ADC40(2) Rail Noise and Vibration Subcommittee Meeting, Tuesday 3:45 PM to 5:15 PM Jason Ross, Marriott Marquis, Independence C (M4)
      iii. ADC40(3) Highway Noise and Vibration Subcommittee Meeting, Wednesday 10:15 AM to Noon Adam Alexander, Marriott Marquis, Independence C (M4)

III. Summer Meeting in Missoula, Montana (20 minutes)

   a. Organizer Cora Helm, Montana DOT

   b. Volunteers?

   c. Call for presentations. Suggested topics

      Noise/vibration impacts to wildlife (terrestrial and aquatic)
      Noise policy & TNM procedures for streamlining/screening (follow-up to Noise Summit)
      Special cases – such as Category A
      Noise studies for rumble strips
      Freight rail noise and vibration
      National Park Service issues

      Ideas for additional topics?

IV. Committee Work (40 minutes)

   a. Christy Gerencher

b. Research Needs, Reports from each subcommittee chair on their plans for approaching this topic and discussion

c. Communications: Current status of mailing list, web site, social media sites, etc.
Maria (Gabriella) Yanez-Uribe, Ahmed, El-Aassar, Subcommittee Chairs

BREAK (20 minutes)

V. Update on everything related to noise AASHTO, Rob Effinger

VI. Research Needs, Reports from each subcommittee chair on their plans for approaching this topic and discussion (30 minutes)

VII. Presentation (20 minutes)

a. Mike Staiano, Judy Rochat: When are absorptive surface treatments a viable noise mitigation measure? Potential treatments include extending ballast, absorptive treatments adjacent to highways, surrounding aircraft run-up facilities with gravel in place of asphalt, … (20 minutes)

VIII. Summaries of Poster Session papers, Overview by John Hencken (5 to 10 minutes each)

a. Modeling Roadway Traffic Noise in Sharjah, United Arab Emirates
Khaled Hamad, University of Sharjah; Mohamad Khalil, University of Sharjah; Abdallah Shanableh, University of Sharjah

b. Rail Acoustic Annoyance Monitoring Sensor System
Michael Cik, Graz University of Technology; Manuel Lienhart, Graz University of Technology; Florian Biebl, psiacoustic Umweltforschung und Engineering GmbH; Robert Schönauer

c. Transportation Noise Effects on Hearing, Cognition, and Annoyance: A Review
Aybike Ongel, Bahcesehir University

d. Tire-Pavement Noise Modeling with Different Tire Configurations and Surface Characteristics
Yangmin Ding, Rutgers, The State University of New Jersey; Hao Wang, Rutgers, The State University of New Jersey

e. Modeling Tire-Pavement Noise on Porous Pavements Using Finite Element Method-Boundary Element Method Approach
Ghim Ong, National University of Singapore; Lei Zhang, Singapore Changi Airport; Tien Fwa, National University of Singapore

f. Pavement Research in Florida: OBSI; Roger Wayson

IX. Open Discussion on Topics of Interest