Celebrating Our Legacy, Anticipating Our Future

With a record-breaking attendance of 11,900, the Transportation Research Board’s 93rd Annual Meeting convened January 12–16, 2014, in Washington, D.C.—the final meeting at the Connecticut Avenue collection of hotels before relocation to the Walter E. Washington Convention Center in 2015. Transportation students, researchers, and professionals from private industry; academia; and federal, state, and local agencies attended more than 3,300 presentations and committee meetings, networking events, award presentations, and exhibits. Approximately 30 sessions addressed the theme “Celebrating Our Legacy, Anticipating Our Future,” with topics addressing big data, performance-based design, sustainability, and more. The TRB Annual Meeting mobile application was downloaded more than 9,000 times, and participants were active on social media platforms such as Twitter and Facebook.

Professor Joseph L. Schofer, Northwestern University, gave the 2014 Thomas B. Deen Distinguished Lecture on “Moving the Goods: Performance Measures and the Value Proposition for Transportation Projects.” U.S. Secretary of Transportation Anthony Foxx delivered the Chairman’s Luncheon address, affirming the value of robust transportation research to a standing-room-only crowd.

Details and highlights appear on the following pages.
Social and electronic media played an important role at the 2014 Annual Meeting, with attendees generating more than 4,000 tweets via #TRBAM.

The TRB Technical Activities Council oversees Annual Meeting planning.

Nima Roohi Sefidmazgi, University of Wisconsin–Madison, downloads the Annual Meeting mobile application. The app featured an interactive program, schedule, floor plans, exhibitors, and more.

Andrew Cooper (left), James Cox & Sons, demonstrates testing equipment to Louay Mohammad, Louisiana State University. Approximately 190 companies and agencies exhibited.

Tim Hoffman tests a driving simulator at the PTV Group exhibit.

At the Chairman’s Luncheon, Beverly Scott (standing), recipient of the Sharon D. Banks Award for Humanitarian Leadership in Transportation, chats with students of TransTech STEM Academy, Francis L. Cardozo Senior High School, Washington, D.C.

(Left to right) Deborah H. Butler, 2013 Executive Committee Chair; Sandra Rosenbloom, 2012 Executive Committee Chair; Lucy Phillips Priddy, 2013 Young Members Council Chair; Katherine F. Turnbull, 2013 Technical Activities Council Chair; Ann M. Brach, second Strategic Highway Research Program (SHRP 2) Director; and Susan Hanson, Subcommittee for NRC Oversight Chair, at the TRB Executive Committee meeting.
SESSIONS AND WORKSHOPS

1. Attorney Jorge Eduardo Ritter discusses the history and legacy of the Panama Canal in one of two spotlight sessions commemorating the canal’s 100th anniversary.

2. Cortney Robinson, Aerospace Industries Association, presents information on the integration of NextGen and unmanned aerial systems at a session on the future of aviation.

3. Paul (Chip) Jaenichen, Maritime Administration, delivers the keynote presentation at One Hundred Years of the Panama Canal: Legacy and Future —Looking to the Future.

4. Julia Koschinsky (left), Arizona State University, and Scott C. Brown, University of Miami, examine accessibility in low-income communities as it relates to multimodal access, employment, and health.

5. Marc Howlett, University of North Carolina at Chapel Hill, leads Marine Transportation 101: Exploring the World of Water Transportation.

6. Emily Stock, Virginia Department of Rail and Public Transportation, presents the Virginia perspective at Status of Rail Planning: Coordinating, Collaborating, and Implementing.


8. Josh Sawislak, Department of Housing and Urban Development, responds to audience questions after his keynote address at Carrying Forward the Lessons of Superstorm Sandy.

9. Stephanie Brooks (left), Michael Baker Corporation, leads a group exercise in Reimagining the Public Meeting.

10. Rina Cutler, City of Philadelphia, addresses changing trends in urban areas at Rethinking the Transportation Organization in the New Millennium.
SESSIONS AND WORKSHOPS (continued)

1. Patricia Hu, Office of the Assistant Secretary of Transportation for Research and Technology, shares the federal perspective on the value of transportation infrastructure.

2. Lindsay Allen, North Carolina A&T State University, discusses her research on the transportation of hazardous materials with Keith Tanner, South Carolina State University.

3. Georgios Giannopoulos, Hellenic Institute of Transport, assesses the future of international research development, governance, and administration.

4. Nemmi Cole, Florida A&M University, presents information on the sustainable use of dredged materials in roadway construction.

5. Jorge Marquez Balderrama, New Mexico State University, describes a preliminary design aid for concrete bridge girders.

6. Katherine Fichter (center), Massachusetts DOT, guides discussion on engaging hard-to-reach populations at Big Ideas That Change Transportation as We Know It.

7. Ogi Redzic, Nokia, offers the private-sector perspective on automated driving and other transportation innovations.

8. Paul van Hagen, HDR Inc., recounts the mission to raise the roadway of the Bayonne Bridge.

9. Claudia Billotto, AECOM, moderates the 7th Annual Competition and Call for Communicating Concepts with John and Jane Q. Public. A Utah DOT project that used animation to alert and engage the public about road realignment received top honors.

10. David Genova, Denver Regional Transportation District, analyzes the components of an effective transit safety management system.
SESSIONS AND WORKSHOPS (continued)

1 Trenton Clark, Virginia Asphalt Association, addresses the Past, Present, and Future of Pavement Design.

2 Jamario White, South Carolina State University, reviews national data and policies on distracted walking at Pedestrian Planning, Design, and Safety.

3 Matt Miyasato, South Coast Air Quality Management District, examines low-emission technologies at Finding Cleaner Ways to Move Goods and People.

4 Thomas Wakeman (left), Stevens Institute of Technology, participates in panel discussion at Sustainability: 20 Years in the Past and 20 Years in the Future.

5 John Schroer (right), Tennessee DOT, presides over a roundtable discussion on funding and financing projects with Greg Whirley (left), Virginia DOT, and other state DOT leaders.


7 Maryam Shekarrizfard, McGill University, shares insights on air quality, transportation, and land use impacts of a highway extension near Montreal, Canada, at Environmental Analysis in Transportation.

8 Jeffrey Kneuppel, Southeastern Pennsylvania Transportation Authority, explores Resiliency in Public Transportation.

9 Gregory Johnson, Michigan DOT, addresses performance management at a roundtable discussion with state DOT leaders.

10 (Photo, right) Michael McKeever (left), Sacramento Area Council of Governments, joined Joel Ettinger (center), New York Metropolitan Transportation Council, and Jane Hayse (right), Atlanta Regional Commission, in a dialogue on Framing a Vision for the Future of Our Nation’s Metropolitan Planning Organizations.
SESSIO NS AND WORKSHOPS
(continued)

1. Kouros Mohammadian, University of Illinois, Chicago, guides discussion on Transportation Data: Our Legacy and Our Future.
2. Anna Maria Rakocz, Transportation Technology Center, Inc., addresses fatigue reliability indices in Special Topics for Steel Bridges.
5. Sean Connaughton, Virginia Secretary of Transportation from 2010 to 2014, presents a challenge to marine researchers at a session on funding and research for inland waterways.
6. Keaton Browder, Tennessee State University, shares results from a case study of parking problems near a downtown university campus at Parking Revolution from A(sset Management) to Z(oning).
7. Anupam Srivastava, UC Irvine, examines Macroscopic Approaches to Traffic Flow.
8. Peter Rogoff (far right), Federal Transit Administration (FTA), presides over a dialogue with former FTA officials in honor of the 50th anniversary of the Urban Mass Transportation Act.
11. Keith Molenaar (right), University of Colorado at Boulder, discusses Alternative Project Delivery with moderator Matthew McDole (left), LS Gallegos.
COMMITTEES

1. Diane Anderson, WRScompass, presents the membership report of the Waste Management and Resource Efficiency in Transportation Committee.

2. Arash Mirzaei, North Central Texas Council of Governments, participates in a meeting of the Task Force on Understanding New Directions for the National Household Travel Survey.

3. Shawn Turner, Texas A&M Transportation Institute (TTI), presides over his final meeting as chair of the Pedestrians Committee.

4. The Safety Data, Analysis, and Evaluation Committee focuses on highway safety-related research.

5. Joseph Bryan, Parsons Brinckerhoff, leads a dialogue on emerging research at a meeting of the Urban Freight Transportation Committee.

6. Kelly Clifton (center), Portland State University, weighs discussion at a Travel Analysis Methods Section meeting.

7. Cesar Quiroga, TTI, received recognition for his leadership of the Geographic Information Science and Applications Committee.

8. Arlando Teller (right), Navajo Division of Transportation, shared insights on airport system management on the Navajo Nation at a meeting of the Aircraft-Airport Compatibility Committee, chaired by Geoffrey Baskir (left), CSSI, Inc.

9. Shashi Nambisan (right), University of Tennessee, Knoxville, takes part in discussion at a Conduct of Research Committee meeting.
In recognition of their dedication and valuable contributions to technical activities committees, the following individuals received emeritus membership in TRB at the 2014 Annual Meeting:

- **Mary R. Brooks**, International Trade and Transportation Committee;
- **Anthony S. Caserta**, Tunnels and Underground Structures Committee;
- **Jon A. Epps**, General Issues in Asphalt Technology Committee;
- **William H. Hartt**, Corrosion Committee;
- **Newton C. Jackson**, Flexible Pavement Design Committee;
- **Anthony R. Kane**, Strategic Management Committee;
- **Philip H. Masters**, Freeway Operations Committee;
- **Gerald S. McDougal**, Light Commercial and General Aviation Committee;
- **Wilfrid A. Nixon**, Winter Maintenance Committee;
- **Andrzej S. Nowak**, Field Testing and Nondestructive Evaluation of Transportation Structures Committee;
- **Roger C. Olson**, Pavement Rehabilitation Committee;
- **Peter Schauer**, Rural Public and Intercity Bus Transportation Committee;
- **Alexander Skabardonis**, Traffic Flow Theory and Characteristics Committee;
- **Michael M. Sprinkel**, Polymer Concretes, Adhesives, and Sealers Committee;
- **Thomas Urbanik II**, Traffic Signal Systems Committee; and
- **Pam Ward**, Rural Public and Intercity Bus Transportation Committee.
Best Paper Awards

1. The Pyke Johnson Award recognizes an outstanding paper on transportation systems planning and administration.

2. Alexander Schmets (left) and Sayeda Nowroz Nahar, Delft University of Technology, The Netherlands, accepted the K. B. Woods Award for outstanding paper in design and construction. (Not pictured: coauthors Mohamad Mohajeri, Athanasios Scarpas, and Martin van den Ven, Delft University of Technology, and Georg Schitter, Vienna University of Technology, Austria)

3. For their paper on “Treatment Effects and Design Guidance for High-to-Low-Speed Transition Zones for Rural Highways,” Robert Fraizer, HDR Engineering, Inc.; Karin Bauer, MRIGlobal; Christopher Kinzel, HDR Engineering, Inc.; and Darren John Torbic, MRIGlobal, received the D. Grant Mickle Award. (Not pictured: coauthor David Gilmore, MRIGlobal)

4. The Patricia F. Waller Award for outstanding paper on safety and system users was presented to Richard Blomberg, Dunlap & Associates, Inc.; Ronald Van Houten, Western Michigan University (WMU); and J. E. Louis Malenfant, Center for Education and Research in Safety, Canada. (Not pictured: coauthor Brad Huitema, WMU)

5. Michael Loulakis, Capital Project Strategies, and Shannon Briglia, Briglia McLaughlin, PLLC, received the John C. Vance Award for TCRP Legal Research Digest 40: Legal Issues Involving Surety for Public Transportation Contracts. (Not pictured: coauthor Lauren McLaughlin, BrigliaMcLaughlin, PLLC)
MAJOR AWARDS

1. TRB Executive Director Robert E. Skinner, Jr., presents Beverly A. Scott (left), General Manager, Massachusetts Bay Transportation Authority, and Administrator, Massachusetts Department of Transportation, Rail and Transit Division, with the 2014 Sharon D. Banks Award for Humanitarian Leadership in Transportation. Scott’s leadership, results-driven management style, and progressive approach to transit labor relations were noted, along with her focus on diversity and the well-being of communities affected by transit initiatives.

2. For wide-ranging accomplishments in pavement and civil engineering research, Ralph Haas (right), Norman W. McLeod Engineering Professor and Distinguished Professor Emeritus, University of Waterloo, Canada, received the Crum Award from 2013 Executive Committee Chair Deborah Butler.

3. 2013 Executive Committee Vice Chair Kirk Steudle (right) presents Harold (Skip) Paul, Louisiana Department of Transportation and Development, with the W. N. Carey, Jr., Distinguished Service Award. Paul was recognized for his outstanding efforts in transportation research and more than 30 years of service to TRB.

EXECUTIVE COMMITTEE

6–10 At a special Executive Committee policy session on Aviation Issues—Challenges and Opportunities, aviation experts presented research on the response of the industry to a turbulent decade. Speakers included

6. Jeff Hamiel, Minneapolis-St. Paul Metropolitan Airports Commission;
7. Thomas Berry, MITRE Corporation;
8. Victoria Arroyo, Georgetown University, who served as rapporteur for the session;
9. Michael Whitaker, Federal Aviation Administration; and

Kirk Steudle, Director, Michigan Department of Transportation (DOT), is the 2014 Chair of the TRB Executive Committee. Daniel F. Sperling, Professor of Civil Engineering and Environmental Science and Policy, University of California (UC), Davis, and Director, Institute of Transportation Studies, is the 2013 Vice Chair.

A member of the Executive Committee since 2004, Steudle joined Michigan DOT in 1987 and was appointed Director in 2006. He administers a budget of more than $3 billion and oversees the construction, operation, and management of approximately 10,000 miles of state highways, 4,000 bridges, and many multimodal transportation programs. Steudle also is chair of the second Strategic Highway Research Program Oversight Committee. Past president of the American Association of State Highway and Transportation Officials (AASHTO) and current AASHTO Executive Committee member, Steudle serves on the Board of Directors of the Intelligent Transportation Society of America and the Engineering Society of Detroit and as Chair of the University of Michigan Transportation Research Institute Advisory Board. He graduated from Lawrence Technological University with a bachelor’s degree in construction engineering and, in 2012, was inducted into the school’s Engineering Hall of Fame. He is a registered Professional Engineer in Michigan.

Founding Director of the Institute of Transportation Studies at UC Davis, Sperling also is Acting Director of the UC Davis Energy Efficiency Center. He is an expert on transportation technology assessment, energy and environmental aspects of transportation, and transportation policy and is coauthor of Two Billion Cars. Sperling is an emeritus member of the Alternative Transportation Fuels and Technologies Committee and serves on the Special Task Force on Climate Change and Energy and the Subcommittee on Planning and Policy Review. He is a lifetime National Associate of the National Academies and, in 2007, was appointed to the California Environmental Protection Agency Air Resources Board. Sperling received a bachelor’s degree from Cornell University and a Ph.D. from UC Berkeley.

Newly appointed to the Executive Committee are A. Stewart Fotheringham, Director, Centre for Geoinformatics and Professor of Human Geography in the School of Geography and Geosciences, University of St. Andrews, United Kingdom; Abbas Mohaddes, President and Chief Executive Officer, Iteris, Inc.; and ex officio member George W. VanSteenburg, U.S. Air Force Civil Engineer Center. Reappointed to the Executive Committee are James M. Crites, Executive Vice President, Operations Division, Dallas–Fort Worth International Airport; Michael W. Hancock, Secretary, Kentucky Transportation Cabinet; Michael P. Lewis, Director, Rhode Island DOT; Joan McDonald, Commissioner, New York State DOT; and Kumares C. Sinha, Edgar B. and Hedwig M. Olson Distinguished Professor of Civil Engineering at Purdue University and Director, Joint Transportation Research Program of Purdue University and Indiana DOT.
EXECUTIVE COMMITTEE (continued)

The Executive Committee met January 15–16 to review the current state of transportation research and to establish new areas of focus.

1–3 New members participating in meeting deliberations for the first time were (left to right) A. Stewart Fotheringham, University of St. Andrews School of Geography and Geosciences, United Kingdom; Abbas Mohaddes, Iteris, Inc.; and Craig Rutland, Air Force Civil Engineer Center.

4–8 Also taking part in meeting discussions were (left to right) Lisha Smith, South Coast Air Quality Management District; Michael Lewis, Rhode Island DOT; Joan McDonald, New York State DOT; Lucy Phillips Priddy, U.S. Army Corps of Engineers; and Philip Washington, Denver Regional Council of Governments.

9 Daniel Sperling (left), UC Davis, and James Crites (right), Dallas–Fort Worth International Airport, attend to a discussion of automated vehicles.

10 Venkatesh (Venky) Narayananamurti represented the National Academy of Engineering.

11–14 Presenting the federal transportation perspective were (left to right) Todd Lewis Ripley, Maritime Administration; Stacy Cummings, Federal Railroad Administration; Gregory Winfree, Office of the Assistant Secretary of Transportation for Research and Technology; and Gregory Nadeau, FHWA.