

Transportation, Livability, and Economic Development in a Changing World

1 At the Chairman's Luncheon, 2010 Executive Committee Chair Michael Morris (*center*) and member Beverly A. Scott (*lower right*) converse with TransTech Academy students from Cardozo Senior High School in Washington, D.C. For many years, TRB has assisted TransTech, which provides education and career experience to the next generation of transportation researchers. The meeting featured expanded outreach to new and young professionals.

2 Peng Liao (*right*) and Jun Chen (*left*), Southeast University, China, study the Annual Meeting program with Shunying Zhu, Wuhan University of Technology (*center*). International attendees brought research perspectives from more than 70 countries to the meeting.

3 The 2011 Annual Meeting set a record for attendance—nearly 11,000 participants converged in Washington, D.C., to network and to take part in approximately 650 sessions and workshops.

The Transportation Research Board's 90th Annual Meeting, January 23–27, 2011, in Washington, D.C., attracted a record attendance of nearly 11,000 transportation professionals, scholars, and policy makers from the United States and abroad. More than 85 sessions and workshops explored the theme of “Transportation, Livability, and Economic Development in a Changing World”; more than 4,000 presentations and 650 workshops and sessions—along with committee meetings, special events, and awards presentations—gave attendees opportunities to network and to share research findings.

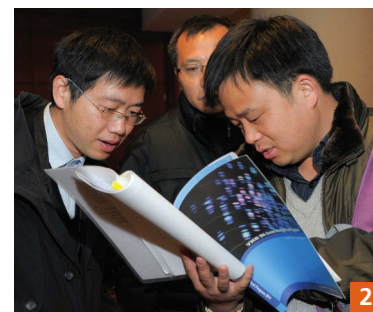
This year's meeting had notable success attracting and encouraging students and young professionals. After a Welcome Session for Annual Meeting newcomers, approximately 600 young attendees volunteered to serve on TRB committees—a significant increase from the previous year. Slides and posters of the program presentations, a compendium of approximately 2,200 technical papers, and videos of more than 40 high-profile sessions were made available through a new TRB Annual Meeting Online feature.

Longtime railway industry leader James W. McClellan of the Woodside Consulting Group



delivered the 2011 Thomas B. Deen Distinguished Lecture. Deborah A. P. Hersman, Chair of the National Transportation Safety Board, was the featured speaker at the Chairman's Luncheon, which included major award presentations.

Details and highlights appear on the following pages.



Annual Meeting
photographs by Cable
Risdon Photography

INTERSECTIONS

1 Lori Diggins, LDA Consulting (*left*), confers with Meredith Howell, U.S. Department of Transportation (DOT), at the New and Young Attendees Welcome Session. The session provides an opportunity for attendees age 35 and under to become active in TRB committees.



2 Christopher Hart, National Transportation Safety Board (*left*), and Tony Fazio, Federal Aviation Administration, prepare to speak at a workshop on understanding industry safety culture, part of a special series of workshops focusing on human factors in transportation.



3 Liv Haselbach, Washington State University (*left*), poses with daughter Candace Brakewood, Massachusetts Institute of Technology, after Brakewood's presentation on transit rider research. Haselbach also presented papers at the meeting.



4 Networking opportunities at the Annual Meeting included informal gatherings, university and corporate receptions, and TRB and outside committee events.



5 The Technical Activities Council oversees the organization and activities of TRB's standing committees.



5 (TRB's 2011–2012 Technical Activities Council, front row, left to right:) Johanna Zmud, RAND Corporation; Steven Silkunas, Southeastern Pennsylvania Transportation Authority; Chair Katherine Turnbull, Texas Transportation Institute (TTI); Mark Norman, TRB; Jeannie Beckett, Beckett Group; (back row, left to right:) Mark Kross, consultant; Peter Mandle, LeighFisher, Inc.; Ronald Knipling, consultant; Peter Swan, Penn State; Thomas Kazmierowski, Ontario Ministry of Transportation; Edward Kussy, Nossaman LLP.

6 At the Exhibit Hall, participants were able to browse displays from more than 150 businesses and organizations.



7 April Armstrong, Science Applications International Corporation (*left*), and Gary Millsaps, Delcan Corporation, explore the Second Strategic Highway Research Program (SHRP 2) display in the Exhibit Hall.





SPOTLIGHT SESSIONS

1 Lucille Marvin, U.S. DOT, explores Economic Development Strategies to Increase Freight Rail Mode Share.

2 Nikiforos Stamatiadis, University of Kentucky, leads a dialogue on Re-inventing Project Management Practices to Integrate Context-Sensitive Solutions.

3 Atlanta, Georgia, Mayor Kasim Reed discusses his city's experience with the Transportation Investments Generating Economic Recovery Act of 2009.

4 David Congdon, Old Dominion Freight Line (left), examines energy and emission impacts of different vehicle configurations at a green trucking workshop.

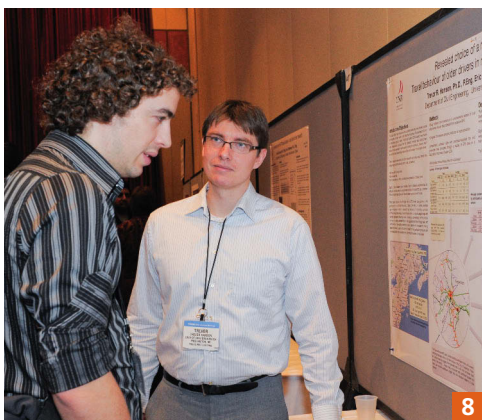
5 At a session on the key elements of urbanism, Wesley Marshall, University of Colorado, Denver, presents research on the spatial distribution of vehicle miles traveled based on street network characteristics.

6 Derek Toups, Kimley-Horn and Associates, Inc., shares perspectives on evolving technologies for managed lanes.

7 Ruth Steiner, University of Florida, poses a question to panelists at a session on Transportation Systems for Livable Communities.

8 Trevor Hanson, University of New Brunswick (right), shares his paper on travel behavior of seniors in rural New Brunswick, Canada.

9 Panelists for Ecology of Scale: Road Ecology Research and Practice included (left to right) Krista Sherwood, National Park Service; Gail Achterman, Oregon DOT; Sandra Jacobson, U.S. Department of Agriculture; and Thomas Linkous, Westerville, Ohio.



SESSIONS AND WORKSHOPS

1 A recipient of the Dwight D. Eisenhower Transportation Fellowship, Laura Poff of Vanderbilt University presented her research on characterizing and implementing cyber-physical systems.



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2 Kenneth Buckeye, Minnesota DOT (right), addresses the state perspective on active traffic management.



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3 Stephen K. Robinson, National Aeronautics and Space Administration, draws on his experience as an astronaut in his address at the Human Factors luncheon.



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4 Alexander Skabardonis, University of California, Berkeley, offers insights on Traffic Signal Control Strategies for Emission Reduction: The Case of IntelliDrive.



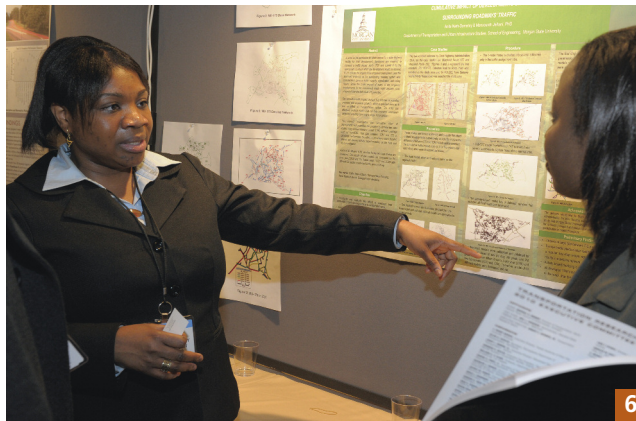
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5 Susan Shaheen, University of California, Berkeley, leads a workshop on increasing ridesharing.



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6 Anita Narh-Dometey of Morgan State University, one of four TRB Minority Student Fellows for 2010–11, describes her research on the Cumulative Impact of Developments on Surrounding-Roadway Traffic to Kwasi Donkor, Fehr & Peers.



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7 Tom Scullion, TTI, explains Development of Infrared Photography and Ground-Penetrating Radar Procedures for Identifying Mixture Segregation at a poster session for high-value research projects from state DOTs.



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8 Ann Dellinger, Centers for Disease Control and Prevention, speaks on traffic safety as a public health issue in a Human Factors workshop comparing traffic safety problems, research approaches, and countermeasures in different countries.



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9 Eric Kerness, Kerness Consulting, explores Risk Management Considerations for Long-Term Public-Private Partnerships.



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SESSIONS AND WORKSHOPS

(continued)

1 Genda Chen, Missouri University of Science and Technology, guides discussion on Lessons Learned from the 2010 Chile Earthquake.

2 Kathy Ruffalo, Ruffalo & Associates, examines the History and Future of the Highway Trust Fund.

3 Anand Puppala, University of Texas at Arlington, participates in a Dialogue with Leaders in Design and Construction of Transportation Facilities.

4 Along with a panel of experts from Canada, Belgium, the Netherlands, and the United States, Takayuki Oba of Japan's Ministry of Land, Infrastructure, and Transport (*right*), explores International Bilateral and Multilateral Intelligent Transportation System Research Activities.

5 Therese McMillan, Federal Transit Administration (FTA), presides over Strategies for Achieving a State of Good Repair.

6 Njoroge Wainaina, North Carolina DOT, introduces a speaker at a session on transportation design and construction.

7 Alan Blatt, CUBRC, Inc., shares experiences Implementing the SHRP 2 Naturalistic Driving Study.

8 Sulapha Peethamparan, Clarkson University, moderates a session on Behavior of Cementitiously Stabilized Soils.

9 Torkel Bjørnskau, Institute of Transport Economics, Norway, presents research on bicycle risk in Norway and Europe.



10 Panelists for Current Freight Research and Implications for Freight Data included (*left to right*) moderator Scott Drumm, Port of Portland; Garreth Rempel, University of Manitoba, Canada; Donald Ludlow, Cambridge Systematics, Inc.; David Plazak, TRB; Alison Conway, City College of New York; and Johanna Zmud, RAND Corporation.



SESSIONS AND WORKSHOPS

(continued)

1 At a discussion with U.S. DOT leadership, administrators Joseph Szabo, Federal Railroad Administration (left), David Strickland, National Highway Traffic Safety Administration; and Peter Rogoff, FTA, consider the future of surface transportation authorization.



2 Orlando Gotay, U.S. Maritime Administration, shares his agency's priorities and progress at a session on Future Directions in Transportation.

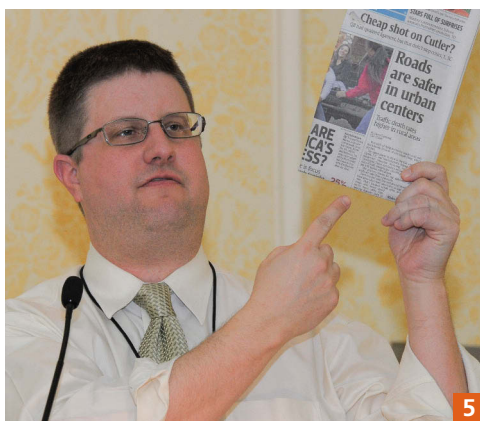
3 William Bronrott, Federal Motor Carrier Safety Administration (FMCSA), participates in dialogue with fellow U.S. DOT deputy administrators.



4 T. Peter Ruane, American Road and Transportation Builders Association (left); Hal Kassoff, Parsons Brinckerhoff; and Victor Mendez, FHWA, listen to research presented on Highways for LIFE.



5 At a session on Rural Road Safety, Keith Knapp, Iowa State University, points to newspaper coverage of the issue.



6 The Fourth Annual Competition on Communicating Concepts with John and Jane Q. Public presented awards for fresh and creative methods to convey technical transportation messages to the community.



7 Panelists (left to right) William M. Sampson, University of Florida; F. Thomas Creasey, Entran; Kenneth G. Courage, University of Florida; Roger P. Roess, Polytechnic Institute of New York University; Richard G. Dowling, Dowling & Associates, Inc.; Lily Eleftheriadou, University of Florida; and James A. Bonneson, TTI, present the recently published *Highway Capacity Manual 2010*.



6 (Above) Katherine Turnbull, TTI and Chair of the TRB Planning and Environment Group (left); communications competition winner Randall Blankenhorn, Chicago Metropolitan Agency for Planning (CMAP); and Jennifer Weeks, Parsons Brinckerhoff and Chair of the Public Involvement in Transportation Committee. CMAP's entry was "Invent the Future," a multimedia public outreach campaign to help guide the direction of future planning initiatives.



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COMMITTEE MEETINGS

1 Anita Vandervalk-Ostrander, Cambridge Systematics (left), presents information on traffic management to the Statewide Transportation Data and Information Systems Committee.

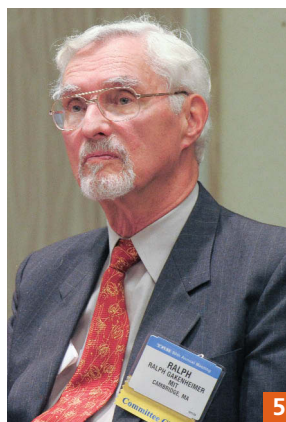
2 Patricia Hu, then with Oak Ridge National Laboratory, speaks at a program for students and new transportation professionals hosted by the Traffic Flow Theory and Characteristics Committee. Hu is now Director, Bureau of Transportation Statistics.



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3 Conrad Felice, C. W. Felice, LLC, leads a meeting of the Modeling for the Design, Construction, and Management of Geosystems Committee.

4 Chair Kathryn Zimmerman guides the Transportation Asset Management Committee through its meeting agenda.

5 Ralph Gakenheimer, Massachusetts Institute of Technology, chairs the Transportation in the Developing Countries Committee.



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6 Andrew Tarko reviews current activities and explores future directions of the Surrogate Measures for Crash Data Subcommittee.

7 Wei Shen, IBM Watson Research Center (left), delivers a presentation to the Regional Transportation Systems Management and Operations Committee.



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9 Rita B. Leahy, Asphalt Pavement Association of California (left), receives commendation from Stuart D. Anderson, Texas A&M University, for her years of service as chair of the Management of Quality Assurance Committee.



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8 D. Stephen Lane, Virginia Center for Transportation Innovation and Research (left), presents a certificate of appreciation to Nancy Whiting, Purdue University, outgoing chair of the Mineral Aggregates Committee.

DEEN LECTURE AND PAPER AWARDS

1 James W. McClellan, Woodside Consulting Group, delivers the 2011 Thomas B. Deen Distinguished Lecture.

2 2010 Executive Committee Chair Michael R. Morris, North Central Texas Council of Governments (left), and former TRB Executive Director Thomas B. Deen (right) present McClellan (center) with the Deen Lectureship plaque.

3 Technical Activities Council Chair Robert C. Johns, Volpe Transportation Center, introduces winners of the Awards for Outstanding Papers.

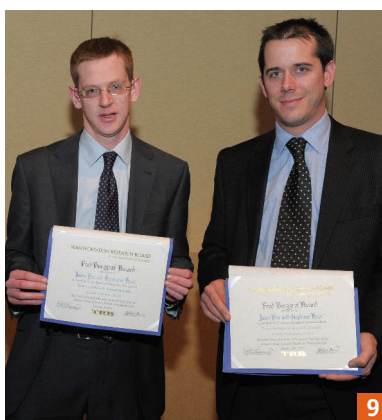
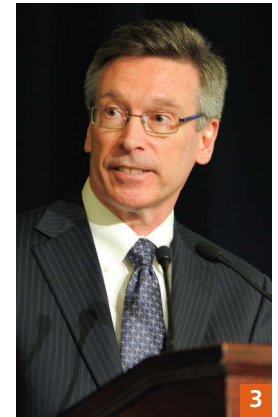
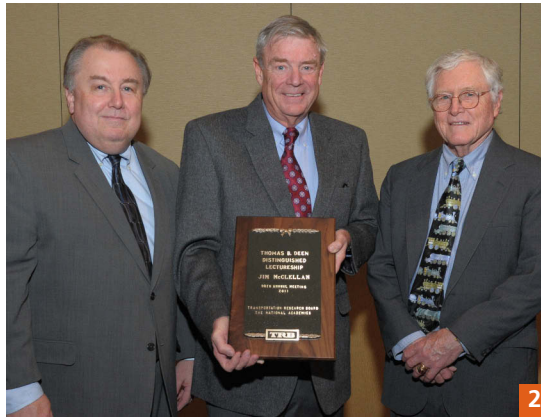
4 Johns (left) presents the Pyke Johnson Award to Helmut Knee (center) and Oscar Franzese of Oak Ridge National Laboratory. Not present was coauthor Lee Slezak, U.S. Department of Energy.

5 The Charley V. Wootan Award winners for outstanding paper in policy and organization were Jiang Hao (left) and Eric Miller, University of Toronto, and Marianne Hatzopoulou, McGill University.

6 Athar Saeed, Applied Research Associates, Inc. (left), and Michael Hammons, U.S. Air Force Research Lab, received the K. B. Woods Award for outstanding paper in design and construction.

7 Nagui Roupail (left) and Bastian Schroeder, North Carolina State University Institute for Transportation Research and Education, were recipients of the D. Grant Mickle Award.

8 Richard Christopher, HDR Engineering, received the John C. Vance Award for his work as editor of *The Natural Lawyer*.



9 The Fred Burggraf Award for outstanding paper in planning and environment by authors under age 35 was presented to James Fox, RAND Europe (left), and Stephane Hess, University of Leeds.

10 Yu Zhang (left) and Nagesh Nayak of the University of South Florida won the Burggraf Award for outstanding paper in aviation by young researchers.





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CHAIRMAN'S LUNCHEON AND AWARDS

1 In her address, National Transportation Safety Board Chairman Deborah A. P. Hersman stressed the importance of investment in safety and of accurate, accessible records. She recounted cross-modal lessons learned in high-profile events such as the 2007 I-35W bridge collapse in Minnesota; the 2009 Washington, D.C., Metro crash; and the 2010 pipe explosion in San Bruno, California.

2 TRB Executive Director Robert E. Skinner, Jr., presents the Frank Turner Medal for Lifetime Achievement in Transportation to Jane Garvey, Meridian North America.

3 Former U.S. Congressman James L. Oberstar (D-Minnesota) received the George S. Bartlett Award for outstanding contributions to highway progress.

4 2011 Executive Committee Chair Neil Pedersen (*right*) presents the W. N. Carey, Jr., Distinguished Service Award to Kansas DOT Secretary and former Executive Committee Chair Debra L. Miller.

5 2010 Executive Committee Chair Michael R. Morris (*right*) congratulates Roy W. Crum Award winner A. Keith Turner, emeritus professor, Colorado School of Mines.

6 Charles Vest, President, National Academy of Engineering, delivers introductory remarks at the Chairman's Luncheon.



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Committees Salute Long-Term Leaders

In recognition of their important long-term contributions and outstanding service on technical activities committees, 11 individuals were awarded emeritus membership at the 2011 Annual Meeting. The honorees and their committees are

- ◆ Jon E. Burkhardt, Rural Public and Intercity Bus Transportation Committee;
- ◆ Jerry M. Faris, Transportation Planning Applications Committee;
- ◆ Frank Fee, General Issues in Asphalt Technology Committee;
- ◆ Linda K. Howard, Aviation System Planning Committee;
- ◆ Katharine M. Hunter-Zaworski, Accessible Transportation and Mobility Committee;
- ◆ Ramankutty Kannankutty, Construction of Bridges and Structures Committee;
- ◆ Douglas B. Lee, Jr., Transportation Economics Committee;
- ◆ Sue McNeil, Transportation Asset Management Committee;
- ◆ Christopher G. B. Mitchell, Accessible Transportation and Mobility Committee;



Lalita Sen, Texas Southern University (*left*), and Russell Thatcher, TranSystems Corporation (*right*), coauthors of the Accessible Transportation and Mobility Committee, present an Emeritus Membership certificate to Katharine Hunter-Zaworski (*center*), Oregon State University.

- ◆ William H. Moorhead, Rail Transit Infrastructure Committee; and
- ◆ Reynaldo Roque, Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements Committee.

New Leaders Step Up to Executive Committee

Neil J. Pedersen, Administrator, Maryland State Highway Administration (SHA), is the 2011 Chair of the TRB Executive Committee. He succeeds Michael R. Morris, Director of Transportation, North Central Texas Council of Governments. Sandra Rosenbloom, Professor of Planning, University of Arizona, is the 2011 Vice Chair.

In 2003, Pedersen became Maryland SHA Administrator; he has overseen projects such as the Woodrow Wilson Bridge in metropolitan Washington, D.C., as well as the recently opened Intercounty Connector in Maryland, which links I-270 with I-95 north of the Capital Beltway. Before serving as Administrator, Pedersen was Director of the Office of Planning and Preliminary Engineering and Deputy Administrator and Chief Engineer for Planning and Engineering at SHA.

Pedersen, a Massachusetts native, has a TRB service record of more than 30 years. He currently leads the second Strategic Highway Research Program Technical Coordinating Committee for Capacity Research. From 2005 to 2008, he chaired the Technical Activities Council, has served on many TRB committees and panels, and is an emeritus member of the Statewide Multimodal Transportation Planning Committee. Also active with the American Association of State Highway and Transportation Officials, Pedersen chairs the Executive Board of the I-95 Corridor Coalition, a group of transporta-



2010 Executive Committee Chair Michael R. Morris (right) passes the gavel to 2011 Chair Neil J. Pedersen at the Chairman's Luncheon.

tion agencies from 16 states, the District of Columbia, and two Canadian provinces. In 2006, he received the George S. Bartlett Award for his work promoting highway innovation.

Since 1990, Rosenbloom has been on the faculty of the University of Arizona, Tucson, where she served for more than 13 years as Director of the Roy P. Drachman Institute for Land and Regional Development Studies. She is an active participant in TRB committees and was the 2004 recipient of TRB's Roy W. Crum Award. Rosenbloom has written extensively on transportation planning and on societal trends in transportation

and community development; in 1999, she received the Roger Tate Award for Outstanding Contributions to Accessible Transportation Research. She received a master's degree in public administration and a Ph.D. in political science from the University of California, Los Angeles (UCLA).

Newly appointed to the Executive Committee are James M. Crites, Dallas–Fort Worth International Airport; Michael W. Hancock, Kentucky Transportation Cabinet; Michael P. Lewis, Rhode Island Department of Transportation (DOT); Lawrence A. Selzer, The Conservation Fund; Kumares C. Sinha, Purdue University; and Thomas K. Sorel, Minnesota DOT. Reappointed to the Executive Committee are Deborah H. Butler, Norfolk Southern Corporation; William A. V. Clark, UCLA; and Susan Martinovich, Nevada DOT.



CELEBRATING TRB'S 90TH—Current and past Executive Committee chairs gather to commemorate 90 years of TRB: (*Front row, left to right:*) William Millar, American Public Transportation Association (1992); Genevieve Giuliano, University of Southern California (2003); former Executive Director Thomas B. Deen; Executive Director Robert E. Skinner, Jr.; Debra Miller, Kansas DOT (2008); Martin Wachs, RAND Corporation (2000); Joseph M. Sussman, Massachusetts Institute of Technology (1994); (*back row, left to right:*) Neil J. Pedersen, Maryland SHA (2011); Herbert H. Richardson, TTI (1988); Michael R. Morris, North Central Texas Council of Governments (2010); C. Michael Walton, University of Texas at Austin (1991); E. Dean Carlson (2002); and David N. Wormley (1997).



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EXECUTIVE COMMITTEE

1 2010 Executive Committee Chair Michael R. Morris guides committee members through a discussion of TRB business.

2 Executive Director Robert E. Skinner, Jr., reviews current TRB initiatives and programs.

3 Neil Pedersen, 2010 Vice Chair, offers insights.

Also participating in Executive Committee deliberations were

4 Sandra Rosenbloom, University of Arizona, 2011 Vice Chair;

5 Kumares Sinha, Purdue University;

6 Paula Hammond, Washington State DOT;

7 Eugene A. Conti, Jr., North Carolina DOT;

8 John T. Gray, Association of American Railroads (*right*), and Marc Carrel, South Coast Air Quality Management District;

9 Susan Martinovich, Nevada DOT;

10 James Crites, Dallas-Fort Worth International Airport (*right*), and Douglas Stotlar, Con-way Inc.;

11 Deborah Butler, Norfolk Southern;

12 Peter Appel, Research and Innovative Technology Administration;

13 Beverly Scott, Metropolitan Area Rapid Transit Authority; and

14 Daniel Sperling, University of California, Davis.



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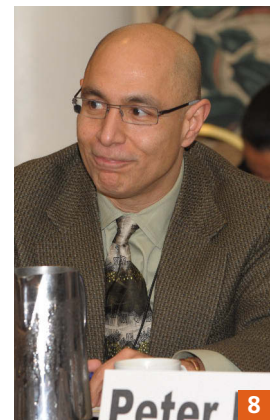
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EXECUTIVE COMMITTEE

(continued)

Members of the TRB Executive Committee shared reports on endeavors, issues, and trends in transportation research. Participating in the conversation were

- 1** John Horsley, American Association of State Highway and Transportation Officials;
- 2** Kirk Steudle, Michigan DOT;
- 3** Anne Ferro, FMCSA;
- 4** David Seltzer, Mercator Advisors;
- 5** TRB Marine Group chair Jeannie Beckett, Beckett Group;
- 6** Arthur Guzzetti, American Public Transportation Association;
- 7** Jeffrey Paniati, FHWA; and
- 8** Vincent Valdes, FTA.
- 9** Lance Grenzeback, Cambridge Systematics, Inc., examines corridor-level priorities related to goods movement at the Executive Committee policy session.
- 10** Genevieve Giuliano, University of Southern California, answers questions about funding strategies and institutional issues during the national freight policy discussion.
- 11** Chelsea (Chip) White, Georgia Institute of Technology, presents a perspective on high-cost freight industry trends and their effect on a national freight policy.
- 12** Walter Kemmsies, Moffatt & Nichol, outlines trends in the bulk freight industry and examines issues to be addressed in a national freight policy.



13 Director of the University of Virginia's Miller Center of Public Affairs and former Virginia Governor Gerald Baliles (left) and Jeffrey Shane, Hogan Lovells, brief the Executive Committee on a report from the Miller Center's David R. Goode National Transportation Policy Conference in 2009.

