

TRB 2013 ANNUAL MEETING HIGHLIGHTS

Deploying Transportation Research

Doing Things Smarter, Better, Faster

1 U.S. Transportation Secretary Ray LaHood outlines high-speed rail initiatives of the Obama Administration in a session examining Economic and Social Impacts of High-Speed Rail Systems.

2 Frank Broen, TeachAmerica, uses the TRB Annual Meeting mobile app to check his schedule.



3 Raiesha Fraser (left) and Avril Gordon Joseph, Achievement First Brooklyn High School, New York, conclude their winning argument at a debate on U.S. federal spending on infrastructure in a special session hosted by the National Association for Urban Debate Leagues.

4 The New Attendees Welcome Session offered an overview of TRB, tips on networking and navigating the meeting, and information on career development and committee involvement.

Annual Meeting
photographs by
Risdon Photography.

Face-to-face interaction and technological innovation converged at the Transportation Research Board's 92nd Annual Meeting, January 13–17, 2013, in Washington, D.C. A record-setting crowd of more than 11,700 transportation professionals, researchers, and policy makers attended more than 750 sessions and workshops on topics from Superstorm Sandy to the Moving Ahead for Progress in the 21st Century Act (MAP-21). Approximately 40 sessions explored the theme of “Deploying Transportation Research: Doing Things Smarter, Better, Faster” and committee meetings, major award presentations, and exhibits provided opportunities for attendees to share knowledge and insights.

A new TRB Annual Meeting mobile application allowed participants to view sessions and events, navigate interactive floor plans, and create a personalized schedule—the “app” was downloaded more than 8,000 times before and during the meeting. Other navigation tools included an interactive Google map, a Compendium of Papers flash drive, Annual Meeting Online, and Facebook and Twitter updates.

Consultant John P. Broomfield delivered the 2013 Thomas B. Deen Distinguished Lecture on “Holistic Approach to Maintenance and Preservation of Transportation Infrastructure.” John C. Horsley, Executive Director of the American Association of State Highway and Transportation Officials and the W. N. Carey, Jr.,



Distinguished Service Award recipient, was the featured speaker at the Chairman's Luncheon.

Details and highlights appear on the following pages.



INTERSECTIONS

1 (Left to right:) Kewen Wang, Li Zhenbong, and Yiping Wu, Beijing University, plan their Annual Meeting activities.



2 Robert Bertini, Portland State University, explains Operations Section goals to first-time meeting attendees at the Welcome Session.



3 The Technical Activities Council provides leadership, facilitation, and coordination for TRB's standing committees.

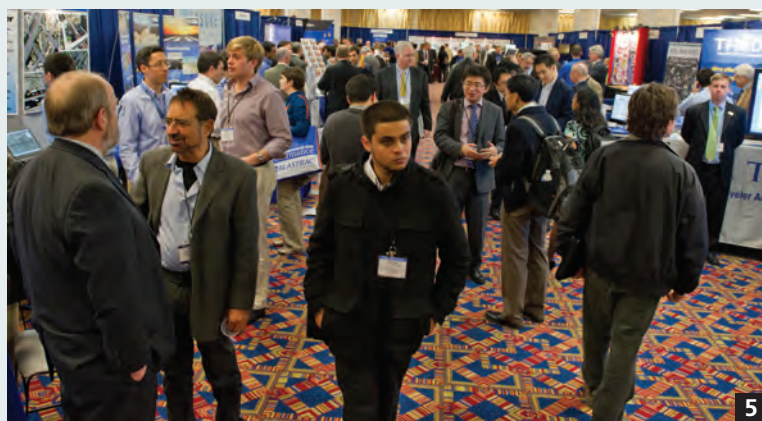


4 Gerald Lacosta, National Highway Institute, discusses the Maintenance Leadership Academy and other training initiatives of the Federal Highway Administration (FHWA).

5 The Exhibit Hall featured approximately 200 displays from TRB sponsors and other organizations.



6 (Left to right:) Jorge Prozzi, University of Texas, Austin; Henri Van Damme, French Institute of Science and Technology for Transport, Spatial Planning, Development, and Networks (IFSTTAR); TRB Executive Director Robert E. Skinner, Jr.; and Patrick Malléjacq, IFSTTAR, sign a letter of agreement between TRB and IFSTTAR at the International Participants' Reception.



7 Tsippy Lotan, Ran Naor Foundation, Israel, and Fred Wegman, SWOV Institute for Road Safety Research, The Netherlands, sign a memorandum of understanding. Both organizations focus on road safety research.





1



2



3



4



5



6



7

8 Steven Koser (*far right*), Pennsylvania DOT, examines Marcellus shale developmental impacts on his state's roadways. Panelists were (*left to right*;) Jack Olson, North Dakota DOT; Ken Skorseth, South Dakota State University; John Barton, Texas DOT; Tim Ziegler, Pennsylvania State University; and Mark Nahra, Woodbury County, Iowa.



8

SESSIONS AND WORKSHOPS

1 Jeannie Beckett, Beckett Group, leads participants in a workshop on Freight in Megaregions.

2 Margaret Sowah, Georgia Institute of Technology, presents her doctoral research on managing ancillary transportation assets at a session on innovative research from FHWA's Dwight David Eisenhower Transportation Fellowship Program.

3 At the Human Factors Luncheon, Robert Strassburger, Auto Alliance, discusses the role of smartphone technology in driving safety, including the costs and benefits.

4 Nichole Morris, University of Minnesota, Twin Cities, participates in discussion at the Human Factors Luncheon.

5 Michael Lewis, Rhode Island Department of Transportation (DOT), discusses the future of the second Strategic Highway Research Program (SHRP 2) research products for state DOTs.

6 Participants in a workshop on Fostering and Nurturing Research Agendas explore tools for research coordinators on TRB committees.

7 Yaye Keita, University of Illinois, shares her research on the factors that determine transit access by car owners and their planning implications.

8 A session explored Strategies to Mitigate Impacts of Heavy Loads Associated with the Energy Sector on Low-Volume Roads.

SESSIONS AND WORKSHOPS

(continued)

1 Anne Goodchild, University of Washington, presents opportunities for freight logistics to help meet energy and environmental goals.

2 Torgeir Vaa, Norwegian Public Roads Administration, guides discussion on Benefits of Winter Maintenance and Road Condition Information.

3 Claudia Zapata, Arizona State University, answers audience questions on Characterization of Unsaturated Soil Properties.

4 Wilfrid Nixon, University of Iowa, shares research on winter maintenance at a spotlight session on Innovative Approaches for Improving the Effectiveness of Operations and Maintenance Programs.

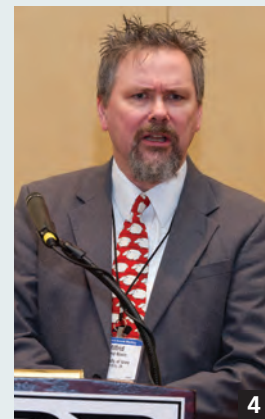
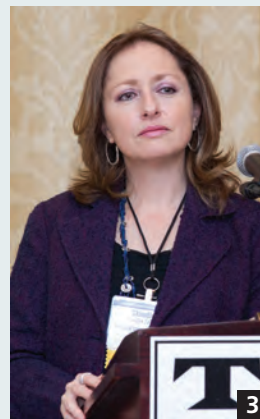
5 Shailen Bhatt (*right*), Delaware DOT, outlines his agency's efforts to improve efficiency at a session on Current Strategies for State DOT Leadership, moderated by Hyun-A Park (*left*), Spy Pond Partners, LLC.

6 TRB Minority Student Fellow Chelse Hoover (*left*), Texas Southern University, discusses her research on calculating delay time using global positioning system data.

7 At a special session on Superstorm Sandy, Holly Bamford, National Oceanic and Atmospheric Administration, shares ways to help coastal communities prepare for and recover from disaster.

8 Justin Ocel, FHWA, moderates Phased-Array Ultrasonics and Their Use in Fabrication and Inspection.

9 Kristin Fusco Rowe (*left*), Straughan Environmental, Inc., and Dayna Sherwood, Paul Carpenter Associates, Inc., moderated a panel on the Effects of Noise on Wildlife.



10 In a session on TRB's Transit Innovations Deserving Exploratory Analysis (IDEA), Phil Winters, University of South Florida, describes his travel assistance device for transit riders.

11 Christopher Baker, University of Birmingham, explains climate change's possible effects on the United Kingdom's rail network.





1



2

SESSIONS AND WORKSHOPS

(continued)

1 Kirk Steudle, Michigan DOT, muses on the future of transportation at a spotlight session on Providing Leadership in Transportation Innovation.

2 At a poster session on Nondestructive Evaluation and Field Testing of Bridges, Dorotea Sigurdardottir, Princeton University, shares research on Strecker Bridge.



3



4



5

3 Shailendra Patel, Virginia DOT, participates in a panel discussion on Variations in Best-Value Selection: Technical Versus Price Considerations.

4 Francesca Russo, University of Naples, examines road design, road safety evaluation, and computerized management of data for road networks at a session for young transportation professionals.



6

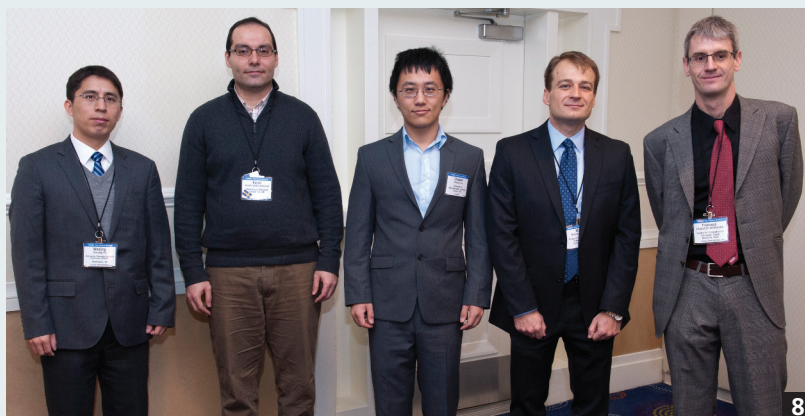


7

5 Ashok Srivastava, National Aeronautics and Space Administration Ames Research Center, addresses audience questions on Applied Research Opportunities in Airport and Aviation Safety.

6 Heather Lowe (right), Maryland State Highway Administration, presents information on Maryland's Watershed Resources Registry at a session on Current Issues in Transportation and the Environment.

8 Panelists in a session on Travel Time Estimation and Processing were (left to right:) Wenjing Pu, Metropolitan Washington Council of Governments; Kaveh Farokhi Sadabadi, University of Maryland; Chaoqun Jia, University of Massachusetts, Amherst; Mike Fontaine, Virginia Center for Transportation Innovation and Research; and Francesc Soriguera, Center for Innovation in Transport, Spain.



8

7 Shoukry Elnahal, Massachusetts DOT, imparts experiences in the ABCs of Accelerated Bridge Construction Policy Development.

SESSIONS AND WORKSHOPS

(continued)

1 The 2012 surface transportation legislation reauthorization was the subject of MAP-21 Implementation: A View from the U.S. Department of Transportation.

2 Joseph Yaede, Brigham Young University, presents research on Evaluating, Improving, and Implementing Innovative Concrete Curing Technologies for Concrete Pavements.

3 Elise Miller-Hooks, University of Maryland, guides discussion on Emerging Research in Emergency Evacuation.

4 Elie Hajj, University of Nevada, Reno, examines Green Asphalt Paving Technologies.

5 Postearthquake bridge damage analysis was the subject of a presentation by Oh-Sung Kwon, University of Toronto, at a session on Reverse Engineering of Bridges.

6 Jean Doig Godier (right), University of California, Berkeley, shares insights on Traffic Flow Theory and Characteristics.

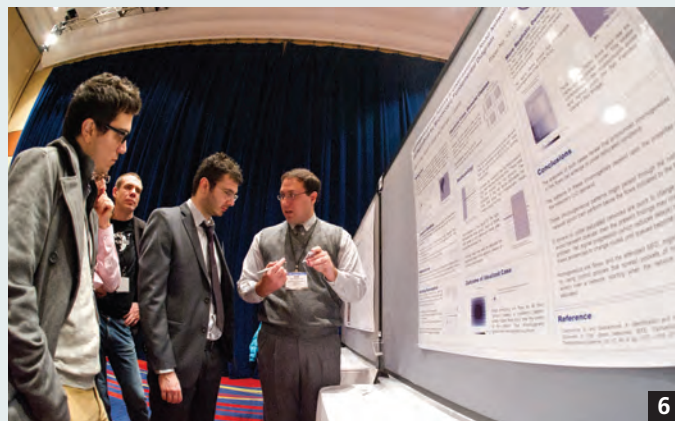
7 Henning Eichler, Southern California Regional Rail Authority, asks a question at a session on Visualizing and Customizing Tools for Implementation of SHRP 2 Renewal Products.

8 Byron Lord, FHWA, recounts lessons from Highways for LIFE, one of the Case Studies of Successful Technology Deployment Methods from Across the Highway Transportation Spectrum.

9 Janette Sadik-Khan, New York City DOT, addresses Innovations in City Transportation.



1 (Left to right:) Sylvia Garcia, U.S. DOT; Brian McLaughlin, National Highway Traffic Safety Administration; Peter Rogoff, Federal Transit Administration; Polly Trottenberg, U.S. DOT; and Victor Mendez, FHWA, shared insights on MAP-21.





1



2



3



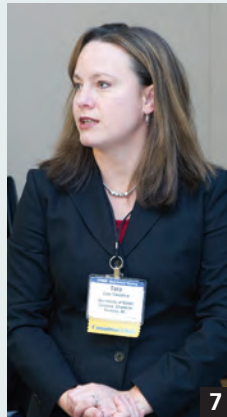
4



5



6



7



8

9 Lynn Wiegand, Portland State University, participates in a meeting of the Pedestrians Committee.



9

COMMITTEES

1 Thera Black, Thurston Regional Planning Council, weighs discussion at a meeting of the Metropolitan Policy, Planning, and Processes Committee.

2 At a meeting of the Foundations of Bridges and Other Structures Committee, Njoroge Wainaina, GeoSyntec Consultants, reviews Soil Mechanics Section business.

3 Julie Marie Vandebossche, University of Pittsburgh, leads the Pavement Rehabilitation Committee through its meeting agenda.

4 Brian H. Zelenko (center), Parsons Brinckerhoff, chairs the Tunnels and Underground Structures Committee.

5 Michael Coplen (right), Federal Railroad Administration, and other members of the Railroad Operational Safety Committee presented Peri Smith (left), Imperial College London, with a Young Member Scholarship.

6 Thomas Rossi (right), Cambridge Systematics, conducts his final meeting as chair of the Transportation Demand Forecasting Committee.

7 Tara Cavalline, University of North Carolina, Charlotte, guides the Properties of Concrete Committee.

8 At the Artificial Intelligence and Advanced Computing Applications Committee meeting, Vukan Vuchic, University of Pennsylvania, shares recollections of past chair Shinya Kikuchi, who died in 2012.

COMMITTEE LEADERSHIP AWARDS

1 Stephanie Camay (second from left), Parsons Brinckerhoff, received the inaugural TRB Outstanding Young Member Award. (Left to right:) Joung Lee, American Association of State Highway and Transportation Officials (AASHTO) and chair, Young Members Council; Marsha Anderson Bomar, Stantec Consulting, Inc., which underwrote the award; and Katherine Turnbull, Texas A&M Transportation Institute (TTI) and chair, Technical Activities Council.



2 (Left to right:) Sandra Rosenbloom, 2012 Executive Committee Chair; Peter (Jack) Basso, Jr., AASHTO; Anthony (Tony) Kane, AASHTO; and Robert E. Skinner, Jr., TRB Executive Director. Basso and Kane were honored for long-term contributions to TRB standing committees.



3 The newly established Blue Ribbon Awards recognize exemplary standing committee activities. The chairs of four committees accepting the award were (left to right:) Jennifer Weeks, Public Involvement in Transportation Committee; Stephen Popkin, Railroad Operation Safety Committee; John Milton, Highway Safety Performance Committee; and Srinivas Peeta, Transportation Network Modeling Committee.



Longtime Volunteer Leaders Gain Emeritus Status

TRB awarded emeritus membership to 16 individuals at the 2013 Annual Meeting in recognition of significant, long-term contributions and outstanding service on technical activities committees. The honorees and their committees are listed below:

- ◆ David B. Clark, Freight Rail Transportation Committee;
- ◆ Philip B. Demosthenes, Access Management Committee;
- ◆ Conrad L. Dudek, Freeway Operations Committee;
- ◆ Karl H. Frank, Fabrication and Inspection of Metal Structures Committee;
- ◆ John W. Fuller, Social and Economic Factors Committee;
- ◆ Dale A. Janik, Transportation Programming, Planning, and Systems Evaluation Committee;



(Photo left, left to right:) Stephen Maher, TRB; emeritus member Dean Sicking; Richard Albin, FHWA; and Brian Ray, Kittelson Associates.

(Photo right:) Jean-Pierre Médevielle.



- ation Committee;
- ◆ Robert C. Johns, Policy and Organization Group;
- ◆ Walter H. Kraft, Regional Transportation Systems Management and Operations Committee;
- ◆ Michael T. McNerney, Aircraft-Airport Compatibility Committee;
- ◆ Jean-Pierre Médevielle, International Activities Committee;
- ◆ Gordon F. Paesani, Freeway Operations Committee;

- tions Committee;
- ◆ Christopher L. Saricks, Transportation and Air Quality Committee;
- ◆ Rolf R. Schmitt, Transportation History Committee;
- ◆ Guillaume Shearin, Social and Economic Factors Committee;
- ◆ Dean L. Sicking, Roadside Safety Design Committee; and
- ◆ Nigel H. M. Wilson, Transit Management and Performance Committee.



1 (Left to right:) William W. Millar, past President of the American Public Transportation Association (APTA), and award recipients James Reynolds, Alexa Delbosc, and Graham Currie, Institute of Transport Studies, Victoria, Australia.



BEST PAPER AWARDS

1 Named for the former APTA president, the new William W. Millar Award recognizes the best paper in the field of public transportation.

2 Valerie Karpus (left), Massachusetts Institute of Technology (MIT), with Katherine Turnbull, accepts the Pyke Johnson Award for transportation systems planning and administration. (Not pictured: Coauthor Sergey Paltsev, MIT.)



3



4



5

4 (Left to right:) John Holt, Texas DOT, and Nauman Sheikh and Roger Bligh, TTI, were awarded for their paper, "Minimum Rail Height and Design Impact Load for Longitudinal Barriers that Meet Test Level 4 of Manual for Assessing Safety Hardware."



6

3 The D. Grant Mickle Award for operation, safety, and maintenance of transportation facilities, went to (left to right:) Lance Dougald, Virginia Center for Transportation Innovation and Research, and Anthony Gallo and Michael Demetsky, University of Virginia.

4 The K. B. Woods Award recognizes an outstanding paper on design and construction of transportation facilities.

5 In policy and organization, Erik Sabina (left), Denver Regional Council of Governments, and Stacey Bricka (right), TTI, received the Charley V. Wootan Award.

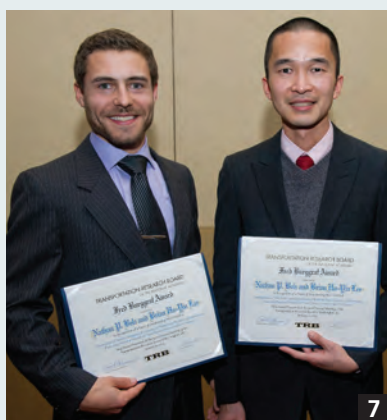
6 Hilary Isebrands (left), FHWA, and Shauna Hallmark (right), Iowa State University, were recognized with the Patricia F. Waller Award for safety and system users.

7-9 The Burggraf Award honors researchers under age 35:

7 Nathan Belz (left) and Brian H. Y. Lee (right), University of Vermont, for planning and environment;

8 Duncan Kisia, Louis Berger Group, Inc., for aviation; and

9 Patrick Icenogle (left) and Tyson Rupnow (right), Louisiana Transportation Research Center, for design and construction.



7



8



9

MAJOR AWARDS

1 C. Michael Walton, Professor of Civil Engineering and the Ernest H. Cockrell Centennial Chair in Engineering, University of Texas at Austin, was honored with the Frank Turner Medal for his influential 40-year career in transportation research and teaching and for his outstanding service to government and other organizations.



2 Incoming Executive Committee Chair Deborah Butler (left) presents the W. N. Carey, Jr., Distinguished Service Award to John Horsley (right), AASHTO Executive Director (now retired). Horsley also delivered the Chairman's Luncheon address.

3 David Greene (left), Corporate Fellow, Oak Ridge National Laboratory, received the Roy W. Crum Award for his distinguished achievement in transportation research from Sandra Rosenbloom (right). A preeminent transportation energy analyst, Greene is a senior fellow of the Howard H. Baker, Jr., Center for Public Policy and a research professor of economics at the University of Tennessee.



4 John Broomfield (center), consulting engineer from Surrey, England, presented the 2013 Thomas B. Deen Distinguished Lecture. (Left to right) Sandra Rosenbloom, Katherine Turnbull, Broomfield, past TRB Executive Director Thomas B. Deen, and TRB Executive Director Robert E. Skinner, Jr.

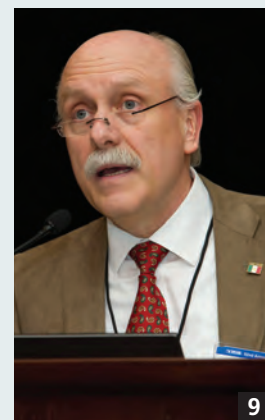
EXECUTIVE COMMITTEE

5 Michael Walton (left) and Deborah Butler (center) lead applause for outgoing Chair Sandra Rosenbloom (right) at the concluding Executive Committee session.



6 Robert E. Skinner, Jr., briefs the Executive Committee on TRB's current programs and new developments.

7-9 Representatives from Mexico, Korea, China, and the European Union delivered presentations to the Executive Committee in a special policy session on International Research Activities: Issues, Priorities, and Lessons Learned.



International speakers (below):

7 José Viegas, International Transport Forum;

8 (Left to right:) Jaehak Oh, Korea Transport Institute; Xiaojing Wang, China Ministry of Transport; and Alessandro Damiani, European Commission; and

9 Roberto Aguerrebere Salido, Mexican Transport Research Institute.



New Leaders Take Office

Deborah H. Butler, Executive Vice President, Planning, and Chief Information Officer, Norfolk Southern Corporation, is the 2013 Chair of the TRB Executive Committee. Kirk T. Steudle, Director, Michigan Department of Transportation (DOT), is the 2013 Vice Chair.

Butler, who joined Norfolk Southern in 1978, served as Vice President of Customer Service before assuming her current position. She received a bachelor's degree from Agnes Scott College in Decatur, Georgia, and completed executive education programs at Northwestern University's Transportation Center, the Fuqua School of Business at Duke University, and the Harvard Business School. Butler serves on the Board of Trustees of Virginia Wesleyan College, on the Board of Directors of TTX Company, and as a Commissioner on the Norfolk Airport Authority. She also is past Chair of the National Grain Car Council, which is chartered by the U.S. Congress and the Surface Transportation Board.

Steudle has been involved in all aspects of transportation in the State of Michigan since becoming DOT Director in 2006. He is chair of the Strategic Highway Research Program Oversight Committee for TRB and has served on the Executive Committee since 2004. Past president of the American Association of State Highway and Transportation Officials (AASHTO) and current AASHTO Executive Committee member, Steudle also 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 construc-


1

tion engineering and, in 2012, was inducted into the school's Engineering Hall of Fame. He is a registered Professional Engineer in Michigan.

Newly appointed to the Executive Committee are Scott E. Bennett, Director, Arkansas State Highway and Transportation Department; John S. Halikowski, Director, Arizona DOT; Susan Hanson, Distinguished University Professor Emerita, School of Geography, Clark University; Steve Heminger, Executive Director, Metropolitan Transportation Commission, Oakland,

California; Jeffrey D. Holt, Managing Director, Bank of Montreal; Donald A. Osterberg, Senior Vice President, Safety and Security, Schneider National, Inc.; Gary C. Thomas, President and Executive Director, Dallas Area Rapid Transit; and Phillip A. Washington, General Manager, Denver Regional Transportation District. Daniel Sperling, Professor of Civil Engineering and Environmental Science and Policy and Director, Institute of Transportation Studies, University of California, Davis, has been reappointed to the Executive


2

EXECUTIVE COMMITTEE

(continued)

1 Deborah H. Butler, 2013 Executive Committee Chair.

2 Butler presents Sandra Rosenbloom with a plaque honoring her service as Executive Committee Chair.

3 New member John Halikowski, Arizona DOT, addresses the Executive Committee.

4 Susan Hanson, Clark University, is Chair of the Subcommittee for National Research Council Oversight. She previously served on the Executive Committee from 2002 to 2008.

5 New member Scott Bennett, Arkansas State Highway and Transportation Department, participates in Executive Committee deliberations.


3

4

5

EXECUTIVE COMMITTEE

(continued)

The Executive Committee explored current TRB initiatives and future research directions. Executive Committee members taking part in meeting discussions for the first time since their appointment included

- 1 Jeffrey Holt, Bank of Montreal;
 - 2 Phillip Washington, Denver Regional Transportation District;
 - 3 Donald Osterberg, Schneider National, Inc.; and
 - 4 Steve Heminger, Metropolitan Transportation Commission, Oakland, California.
- 5 Newly appointed executive committee member Gary Thomas (*left*), Dallas Area Rapid Transit, confers with Mark Kross (*right*), Technical Activities Council member.

Also participating in meeting discussions were

- 6 Daniel Sperling, University of California, Davis;
 - 7 Kelly Leone, Federal Motor Carrier Safety Administration;
 - 8 Michael Melaniphy, APTA; and
 - 9 Therese McMillan, Federal Transit Administration.
- 10 Thomas Leschine, University of Washington, is Marine Board Chair.
- 11 Technical Activities Council Chair Katherine Turnbull updates the Executive Committee on the status of standing committee programs.
- 12 Polly Trottenberg, U.S. DOT, addresses the committee, with Victoria Arroyo (*left*), Georgetown University, and John Porcari (*right*), U.S. DOT.
- 13 Joung Lee, 2012 Young Members Council Chair, shares information about the council's activities.

