

Transportation Research:



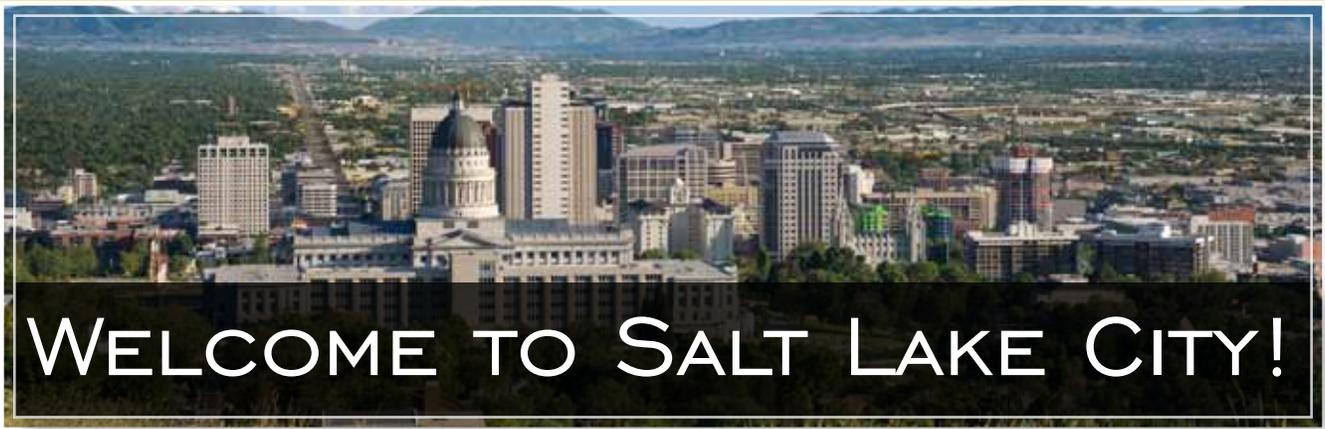
The Road to New Partnerships and Possibilities

2011 AASHTO RESEARCH ADVISORY COMMITTEE
AND TRB STATE REPRESENTATIVES ANNUAL MEETING

JULY 25–28, 2011 | SALT LAKE CITY, UTAH | LITTLE AMERICA HOTEL

HOSTED BY RAC REGION 4 AND UDOT

MEETING GUIDE



RAC Region 4 and UDOT would like to welcome you to the 2011 meeting of AASHTO's Research Advisory Committee and TRB State Representatives.

We are excited to have you all here and believe you will find the next four days to be extremely rewarding. We have an exciting agenda planned for you with opportunities to hear from national leaders, to learn about best practices, and to share information about transportation research that's made a difference.

We hope each of you will learn things you can take home and implement in your organization. We encourage you to take advantage of the opportunity to network with your peers—we truly have an outstanding group of professionals in the transportation research area.

If you have questions or need anything during your stay, look for any of us from RAC 4 or from UDOT. We're here to help ensure you have a great stay.

ENJOY THE CONFERENCE!

Transportation Research: The Road to New Partnerships and Possibilities

MONDAY, JULY 25, 2011

8:00 a.m.–10:15 a.m.	<p>Joint RAC/CUTC Meeting <i>Ballroom A</i></p> <p>This session brings together State DOT and university research staff to discuss issues of common interest and opportunities to collaborate. Topics to be addressed include:</p> <ul style="list-style-type: none"> - Discussion of RITA's plans for the next UTC competition - RAC-CUTC role in developing a national research agenda - Examples of successful partnerships between RAC and CUTC members - Guidelines on facilitating successful agreements between RAC and CUTC members - Sharing and disseminating information about the mission, goals, objectives, and activities of RAC and CUTC - Reauthorization <p>Moderators: Sandra Larson, Iowa DOT and RAC Chair Steve Albert, Past CUTC Chair</p> <p>Panelists: John Moulden, FHWA Dave Huft, South Dakota DOT Sue Sillick, Montana DOT Jason Bittner, Nat'l Center for Freight & Infrastructure Research & Education Leni Oman, Washington DOT Shashi Nambisan, Center for Transportation Research, ISU Skip Paul, Louisiana DOTD</p>
10:15 a.m.–10:30 a.m.	<p>Break</p>
10:30 a.m.–Noon	<p>Joint RAC/CUTC Meeting <i>Ballroom A</i></p> <p>This time slot is set aside for continued discussion of RAC/CUTC items (if needed)</p> <p>RAC 101 <i>Flagstaff Room</i></p> <p>This session is designed for relatively new RAC members, although all conference participants are welcome to attend. The purpose of the session is to provide an overview of DOT Research Program responsibilities and national transportation research programs. There will be opportunities for participants to ask questions of the panelists.</p> <p>Moderator: Skip Paul, Louisiana DOT</p> <p>Panelists: Amy Schultzbach, Illinois DOT Barnie Jones, Oregon DOT Moy Biswas, North Carolina DOT Chris Hedges, TRB Jack Jernigan, FHWA</p>
Noon–1:30 p.m.	<p>Lunch <i>On your own</i></p>
1:30 p.m.–3:15 p.m.	<p>Administration and Education Task Force <i>Flagstaff Room</i></p> <p>This task force is involved in a variety of issues such as updating RAC Bylaws, and managing and updating the content of the RAC web site. The group also is involved in providing resources to assist new staff in understanding program responsibilities. The meeting is open to all who have an interest in the topic.</p> <p>Moderators: Skip Paul, Louisiana DOTD Steve Pepin, MA DOT</p> <p>Coordination and Collaboration Task Force <i>Sun Valley Room</i></p> <p>This task force works to encourage collaboration between various organizations involved in transportation research. The meeting is open to all who have an interest in the topic.</p> <p>Moderator: Sue Sillick, Montana DOT</p> <p>Value of Research Task Force <i>Tucson Room</i></p> <p>This task force focuses on efforts to document and communicate the value of research to our organizations and the public. The meeting is open to all who have an interest in the topic.</p> <p>Moderator: Mara Campbell, Missouri DOT</p>
3:15 p.m.–3:30 p.m.	<p>Break</p>

- 3:30 p.m.–5:15 p.m. **Program Management and Quality Task Force** *Flagstaff Room*
 The PM&Q task force seeks to encourage adoption of best practices by state DOT research programs. The meeting is open to all who have an interest in the topic.
 Moderators: Michael Bonini, Pennsylvania DOT and David Jared, Georgia DOT
- Transportation Knowledge Networks Task Force** *Sun Valley Room*
 This task force is working to develop and encourage adoption of best practices for preserving and sharing transportation knowledge. The meeting is open to all who have an interest in the topic.
 Moderator: Leni Oman, Washington DOT
- 5:30 p.m.–7:00 p.m. **Welcome Reception** *Ballroom A*
 Network with other meeting participants and visit exhibits with information about transportation research.

TUESDAY, JULY 26, 2011

- 7:00 a.m.–8:15 a.m. **Regional Breakfasts—Region 1 and Region 2** *Ballroom A*
 RAC's regional groups will meet to discuss regional issues and collaboration opportunities.
- Regional Breakfasts—Region 3** *Flagstaff Room*
- Regional Breakfasts—Region 4** *Sun Valley Room*
- 8:30 a.m.–9:15 a.m. **Opening Session** *Ballroom A*
 Welcoming remarks from the Chair of the AASHTO Research Advisory Committee and from our host state DOT.
 Sandra Larson, Iowa DOT and RAC Chair
 John Njord, Utah DOT Director
 Cameron Kergaye, Utah DOT
- 9:15 a.m.–9:45 a.m. **Break and Exhibit Area Open** *Ballroom A*
- 9:45 a.m.–11:45 a.m. **National Program Updates** *Ballroom A*
 Representatives of national organizations will provide updates on their activities related to transportation research. They will also answer questions from attendees.
 Moderator: Sue Sillick, Montana DOT
 Panelists: Bob Skinner, TRB
 Chris Jenks, TRB
 Mark Norman, TRB
 John Halikowski, Arizona DOT
 Michael Trentacoste, FHWA
 Tim Klein, RITA
 Steve Albert, CUTC
 Ann Brach, SHRP 2
- Noon–1:15 p.m. **Lunch** *Ballroom A*
 Speaker: John Horsley, AASHTO Executive Director
 Mr. Horsley will provide an update regarding national issues of interest to state DOTs and answer your questions.
- 1:30 p.m.–3:00 p.m. **Engaging Your CEO/Agency Leadership in Research** *Ballroom A*
 For this session, we are fortunate to have three state DOT CEOs as panelists. We also have several research program managers with a reputation for involving their leadership in the research process. Panelists will discuss how Research Programs can engage their agency leadership in research, and suggest ways that programs can make a greater difference within their agencies. Attendees will also have the opportunity to share practices in their states and to ask questions of the panelists.
 Moderator: Sandra Larson
 Panelists: John Njord, Utah DOT
 John Halikowski, Arizona DOT
 Susan Martinovich, Nevada DOT
 Mara Campbell, Missouri DOT
 Dale Peabody, Maine DOT

3:00 p.m.–3:30 p.m.	Break and Exhibit Area Open	
3:30 p.m.–5:00 p.m.	Best Practices for Implementing Research Results	<i>Ballroom A</i>
	This session will discuss methods Research Programs can use to encourage implementation or agency-funded research.	
	Moderator: Dave Huft, South Dakota DOT	
	Panelists: Mike Bonini, Pennsylvania DOT	
	Skip Paul, Louisiana, DOTD	
	Performance Measures for Research Programs	<i>Flagstaff Room</i>
	This session will highlight the development of a web-based performance management toolkit to help research programs establish, manage, and share performance measures and the value of their research programs and projects—both internal to their agencies and nationally to the transportation community. Participants will explore the potential for incorporating the toolkit into their programs and share best practices for developing and managing research performance measures and how they identify high-value research projects.	
	Moderator: Clint Adler, Alaska DOT	
	Panelists: Stephen Ziegler, ICF International	
	Mara Campbell, MO DOT	
	Dale Peabody, ME DOT	
5:00 p.m.–6:00 p.m.	Break	
6:00 p.m.–9:00 p.m.	Dinner	<i>Ballroom A</i>

WEDNESDAY, JULY 27

7:00 a.m.–8:15 a.m.	Regional Breakfasts—Region 1 and Region 2	<i>Ballroom A</i>
	RAC's regional groups will meet to discuss regional issues and collaboration opportunities.	
	Regional Breakfasts- Region 3	<i>Flagstaff Room</i>
	Regional Breakfasts—Region 4	<i>Sun Valley Room</i>
8:15 a.m.–8:30 a.m.	Break and Exhibit Area Open	
8:30 a.m.–10:30 a.m.	TRB State Representatives Meeting	<i>Ballroom A</i>
	This session and the one that follows it constitute the Annual Meeting of TRB's State Representatives. The meeting includes a welcome from TRB leadership and presentations and dialogue concerning:	
	- Keeping your CEOs and decision makers informed about TRB	
	- Getting the most out of TRB/State DOT partnership visits	
	- Getting TRB publications to the right people in State DOTs	
	- State DOTs and the Annual Meeting	
	- Facilitating involvement by State DOTs in TRB activities	
	- Fostering a Research Agenda for TRB Standing Committees	
	Moderators: Bob Skinner, TRB	
	Mark Norman, TRB	
	Panelists: Mark Norman, TRB	
	Michael Bonini, Pennsylvania DOT	
	Amy Schultzbach, Illinois DOT	
	Michael LaPlante, TRB	
	Rick Collins, Texas DOT	
	Leni Oman, Washington DOT	
	Skip Paul, Louisiana DOTD	
	Barbara Harder, B.T. Harder, Inc.	
10:30 a.m.–10:45 a.m.	Break and Exhibit Area Open.	

10:45 a.m.–11:45 a.m.	<p>TRB State Representatives Meeting (continued) - State DOT Implementation of TRB Cooperative Research Program Projects - Domestic Scan Program Update Moderator: Barbara Harder, B.T. Harder, Inc. Panelists: Mike Bonini, Pennsylvania DOT Camille Crichton-Summers, New Jersey DOT Darryl Dockstader, Florida DOT Tommy Nantung, Indiana DOT Speaker: Skip Paul, Louisiana DOTD</p>	<i>Ballroom A</i>
11:45 a.m.–Noon	Break	
Noon–1:00 p.m.	<p>Lunch Speaker: Robert Kirby, Salt Lake Tribune humor columnist; “Confess Your Idiocy.”</p>	<i>Ballroom A</i>
1:15 p.m.–2:45 p.m.	<p>High Value Research– The Sweet Sixteen and More! Back by popular demand, be prepared for quick-hitting presentations on the top 16 picks and more from our annual High Value Research Project submissions. Moderators: Dale Peabody, Maine DOT Roberto DeDios, Colorado DOT Individual speakers will be announced at the session</p>	<i>Ballroom A</i>
2:45 p.m.–3:00 p.m.	Break and Exhibit Area Open	
3:00 p.m.–5:00 p.m.	<p>National Research Initiatives This session will focus on several national research initiatives including: - Development of a national research agenda for the FHWA - Discussion of SHRP 2 products - Discussion of AASHTO's SHRP 2 Implementation Efforts - Discussion of the long-range research projects being funded through NCHRP 20-83 and an update on one of these project, which focuses on the economic changes driving future freight transportation. Moderator: Ned Parrish Panelists: John Moulden, FHWA Jerry DiMaggio, SHRP 2 Chuck Taylor, SHRP 2 Jeff Heilman, Parametrix Jim McMinimee, AASHTO Crawford Jencks, NCHRP Dr. Christopher Caplice, MIT Center for Transportation and Logistics</p>	<i>Ballroom A</i>
5:00 p.m.–6:00 p.m.	Break	
6:00 p.m.–9:00 p.m.	<p>Regional Dinners Join others from your region for dinner at one of several restaurants at Salt Lake City's Gateway Center. Travel to the Gateway Center by light rail. Cost for this dinner is not included in your meeting registration.</p>	<i>Gateway Center</i>

THURSDAY, JULY 28

- 7:00 a.m.–7:45 a.m. **Breakfast** *Ballroom A*
- 7:45 a.m.–8:00 a.m. **Break**
- 8:00 a.m.–9:30 a.m. **Best Practices for Identifying Transportation-Related Problems for Research** *Ballroom A*
It is no simple task to identify transportation-related problems that can be solved with research. One particular aspect of this is that not all problems are “researchable.” Further, translating those “researchable” problems into research problem statements that will produce high-quality, impactful results is equally daunting. This demands consideration of issues such as: involving top management to ensure that problem statements are aligned with strategic goals or having the research provide solutions that can be easily deployed. This session will explore the dimensions of this problem from several different perspectives employing the outcomes of a research program peer exchange and the viewpoints of two research stakeholders, one from a university and one from a state agency.
Moderator: Martin Pietrucha, Larson Transportation Institute, Penn State
Panelists: Jennifer Fitch, Vermont
Glenn Roberts, New Hampshire DOT
Sue Sillick, Montana DOT
- Whaddaya Know? A Workshop on Managing Research Program Information** *Flagstaff Room*
As research managers, we sift through lots of information and facilitate the creation of new information. What information do we need to keep? How do we manage versions of a document? What information about how you work will help your successor? Where are the risks in maintaining institutional knowledge related to research? This workshop will present information on common knowledge management practices that can help us strategically and intentionally manage documented and undocumented knowledge resources.
Moderator: Leni Oman, Washington DOT
- 9:30 a.m.–9:45 a.m. **Break**
- 9:45 a.m.–11:45 a.m. **RAC Regional and Task Force Reports** *Ballroom A*
The leaders of RAC’s regional groups and task forces will provide updates on their activities and plans for the coming year.
Moderator: Rick Collins, Texas DOT and RAC Vice-Chair
- 11:45 a.m.–Noon **Break**
- Noon–1:30 p.m. **Closing Lunch** *Ballroom A*
This session provides an opportunity for RAC leadership to bring any final discussion or information items to the group before the meeting closes. Attendees will also have an opportunity to share their thoughts on this year’s meeting and make suggestions for next year’s meeting, which will be hosted by Region 1 in beautiful Vermont.
Moderators: Sandra Larson, Iowa DOT and RAC Chair
Camille Crichton-Summers, New Jersey DOT
Jennifer Fitch, Vermont Transportation Agency
Ned Parrish, Idaho TD
- 1:30 p.m.–3:00 p.m. **RAC Officers’ Meeting** *Casper Room*
This is the business meeting for RAC leadership. The meeting is open to RAC leaders and other invitees.
Moderator: Sandra Larson, RAC Chair

SPEAKER BIOGRAPHIES

Clint Adler Since July, 2009, Clint Adler has been the Chairman for Region IV of the AASHTO Research Advisory Committee. He serves as the Chief of Research Development & Technology Transfer, Alaska Department of Transportation & Public Facilities (AKDOT&PF)—a position he has held since July, 2007. His team facilitates transportation research, implementation, technology transfer, and workforce development within the department. Clint has invested nine professionally rewarding years of his career in research & technology transfer in the AKDOT&PF. He holds a B.S. degree in Civil Engineering and an M.S. in Environmental Quality Engineering from the University of Alaska Fairbanks and is a registered professional Civil Engineer in the State of Alaska.

Steve Albert Steve Albert is the director of the Western Transportation Institute (WTI) at Montana State University in Bozeman, Montana. With more than 25 years of experience, he has spearheaded innovative solutions from metropolitan centers to rural settings. With his management of the Houston transportation system and his pioneering rural research, Steve has a comprehensive perspective of America's varied transportation needs. Steve also is a national leader on intelligent transportation systems (ITS). He has been involved in and guided ITS research and development projects in more than 35 states. He has delivered more than 100 professional presentations on relevant subjects, including twice addressing the U.S. Senate on the U.S. Department of Transportation's ITS program. In 2007, U.S. Transportation Secretary Mary Peters selected him to serve on the ITS Advisory Committee. Steve has worked for PB Farradyne, in Washington D.C., Metropolitan Transit Authority of Harris County (METRO) in Houston, and the Texas Transportation Institute of Texas A&M University System in Houston.

Moy Biswas Mirnmay (Moy) Biswas is the Manager of the Office of Research at the North Carolina DOT. He has a long and distinguished career that includes consulting on civil structures, nuclear power plants and nuclear fusion reactor projects and publication for a number of associations, including TRB and the American Society of Civil Engineers. He has held research and teaching affiliations with the University of Virginia, the Virginia Transportation Research Council, the National Radio Astronomy Observatory, the Princeton Plasma Physics Laboratory, Texas A&M University/Texas Transportation Institute and the Duke University Transportation Research Center. He holds a bachelor's degree from the Indian Institute of Technology and a doctorate from the University of Virginia.

Jason Bittner Jason Bittner is the Deputy Director of the Wisconsin Transportation Center at the University of Wisconsin. He is also a Researcher at the National Center for Freight and Infrastructure Research and Education (CFIRE) and is co-chair of the TRB Committee on Conduct of Research. He recently completed tenure as Acting Director of the CFIRE program. Previous to his work in freight, Jason was a researcher and program manager for the USDOT Region 5 Midwest Regional University Transportation Center. His research there included analysis of state and local transportation asset management, including performance measurement and maintenance quality assurance. He holds degrees from the American University in Washington D.C. and the University of Wisconsin-Madison, La Follette School of Public Affairs in political science and public administration. Jason also holds a lecturer appointment in the Department of Civil and Environmental Engineering at the University of Wisconsin and served as an adjunct professor in Political Science at Edgewood College.

Michael Bonini Michael Bonini is the Research Program Manager and TRB State Representative for the Pennsylvania Department of Transportation (PennDOT). In this role, Michael is responsible for the development, management and administration of a fiscally-constrained, prioritized Research Program. In addition, Michael is responsible for the implementation and deployment of research results and other identified innovations throughout PennDOT. Michael also serves on several national transportation committees, including an appointment to the TRB Conduct of Research Committee. He received his undergraduate degree in Political Science from the University of Pittsburgh and his Master's degree in Public Administration from the University of Baltimore while serving as President for the Pi Alpha Alpha Honors Fraternity and the MPA Student Association. A graduate of the Pennsylvania Management Associate (PMA) program, Michael has been with PennDOT Research since his formal appointment.

Ann Brach Ann M. Brach is the Deputy Director of the second Strategic Highway Research Program (SHRP 2) at the Transportation Research Board (TRB) of The National Academies. In this capacity, Dr. Brach is responsible for overseeing research on the role of driver behavior in highway safety and on methods for rapid renewal of highway infrastructure. In addition, Dr. Brach carries out legislative analysis related to federal highway and transportation-related research. Prior to her current position, Dr. Brach served as a Senior Program Officer in Policy Studies at TRB, where she directed the development of SHRP 2. In addition, she has completed studies of funding trends, congressional earmarking, and stakeholder involvement in federal transportation research programs. Before coming to TRB, Dr. Brach was Research and Technology Program Manager at the Federal Highway Administration and Chief of the Research and Technology Division of the Maryland State Highway Administration. Dr. Brach obtained her Bachelor of Science degree in civil engineering from Northeastern University in Boston. She received the Master of Science and Ph.D. from the Massachusetts Institute of Technology, where she focused on management of research and innovation in the construction industry. She recently completed a Master of Arts degree in philosophy at the Catholic University of America. She has served as chair of the Research Committee of the American Society of Civil Engineers Transportation and Development Institute and as a member of ASCE's Transportation Policy Committee. She is a registered Professional Engineer in the Commonwealth of Virginia.

Mara Campbell Mara Campbell is the Organizational Results Director for the Missouri Department of Transportation, a position she assumed in June 2005. This unit is responsible for coordinating organizational performance efforts such as the development and monitoring of performance measures and essential process and quality efforts coupled with innovative and applicable transportation research. Mara has been employed with MoDOT for 14 years and has extensive experience in performance measurement and process engineering. Prior to joining MoDOT, she was the public relations and marketing director for the Capital Region Medical Center in Jefferson City. She is a certified Quality Manager. Mara received her bachelor's degree in public relations/communications in 1984 from Central Missouri State University in Warrensburg and has a master of business administration from William Woods University. www.modot.gov

Christopher Caplice Dr. Caplice is the Executive Director of the Center for Transportation & Logistics (CTL) at the Massachusetts Institute of Technology. In this role, he is responsible for the planning and management of the research, education, and corporate outreach programs for the center to include the Supply Chain Exchange and the Master of Engineering in Logistics (MLOG) graduate program. He is also the founder of the MIT FreightLab—a research initiative that focuses on improving the way freight transportation is designed, procured, and managed. Prior to joining MIT, Dr. Caplice held senior management positions in supply chain consulting, product development, and professional services at several companies to include Logistics.com, SABRE, and PTCG. He is also the Chief Scientist for Chainalytics, the leading analytical supply chain consulting firm. In this role, he pioneered and leads the Chainalytics Model Based Benchmarking Consortium (MBBC). Dr. Caplice also served five years in the Army Corps of Engineers, achieving the rank of Captain. His writing has appeared in the *Journal of Business Logistics*, the *International Journal of Logistics Management*, and *Transportation Research*. He received a Ph.D. from MIT in 1996 in Transportation and Logistics Systems, a Master of Science in Civil Engineering from the University of Texas at Austin, and a Bachelor of Science in Civil Engineering from the Virginia Military Institute (VMI).

Rick Collins Rick Collins, P.E., has been Director of the Research and Technology Implementation Office of the Texas Department of Transportation (TxDOT) since January, 2004. In this role, he is responsible for the research program and implementation of research results and new technologies and processes. Prior to that, he served as director of the Traffic Engineering Section in the Traffic Operations Division. As section director, Rick was responsible for guidelines associated with the design, placement and use of traffic control devices. Rick began his TxDOT career as an engineering assistant in the Design Division in 1982. In addition, he served as safety and programs engineer and then as railroad liaison engineer. He has also worked for a private consulting engineering company. Rick earned his bachelor's in civil engineering from Texas A&M University and his master's in engineering from the University of Texas at Austin. www.txdot.gov

Camille Crichton-Summers Camille Crichton-Summers graduated from Drexel University with dual Bachelor of Science degrees in Civil Engineering and Architectural Engineering. She received her Master's in Engineering Management from the New Jersey Institute of Technology, College of Engineering and continues her studies as an Engineering Management Doctoral Candidate at the Stevens Institute of Technology, School of Systems and Enterprises. In November of 1991 she began working for NJDOT as a civil engineer in training. During her tenure at the department she has worked in the following Bureaus: Environmental Services, Project Management, Utilities, Project Scope Development, and the Bureau of Research where she currently oversees Research and Technology Transfer initiatives for customers primarily within NJDOT, New Jersey Transit and the New Jersey Motor Vehicle Commission. She participates on several American Association of State Highway Transportation Officials, Research Advisory Committee, (AASHTO, RAC), Task Force Groups; is the current Vice Chairperson and the incoming Chairperson for RAC Region One; and serves as the Transportation Research Board, (TRB), Representative for NJDOT.

Roberto De Dios Roberto De Dios is the Pavements and Materials Research Engineer with the Colorado Department of Transportation. He has professional engineering experience in areas of roadway design/project management, traffic engineering, materials, hydrology and hydraulics, environmental, cost estimating, and research. Roberto is Chairman of CDOT's Pavements and Materials Research Oversight Team, Past Chairman of CDOT's Environmental Research Oversight Team, a member of the Innovative Pavement Research Foundation (IPRF) Task Force on Materials-Related Distress of Potassium Acetate Deicers on Concrete Airports in Colorado; and a member of the CDOT Materials Advisory Committee. He manages a variety of environmental, pavements and materials research projects and also serves on the Technical Advisory Committees for several pooled-fund studies. Roberto has a B.S. in Chemical Engineering and a master of Engineering (Environmental-Civil).

Jerry DiMaggio Jerry DiMaggio, P.E., M.ASCE, is Implementation Coordinator of the second Strategic Highway Research Program (SHRP 2) at the Transportation Research Board (TRB) of the National Academies. Jerry has also served on a number of projects related to Load Resistance Factor Design (LRFD), risk management assessment/mitigation plans, innovative contracting and accelerated construction. He is the retired (2008) Principal Bridge Engineer—Geotechnical and National Program Manager with the U.S. DOT, Federal Highway Administration in Washington D.C. He holds B.S. and M.S. degrees in Civil Engineering from Clarkson University in New York State and is a registered professional engineer in several states. Jerry is also a certified Master Trainer and licensed Contract Arbitrator (AAA). He has provided consulting services related design, construction and contract matters on approximately 1000 civil construction projects in all 50 states, throughout Central and South America, several Middle

SPEAKER BIOGRAPHIES

Eastern countries and Australia. He has been a member of the adjunct faculty at the University of Delaware, Johns Hopkins University in Baltimore, and The University of Akron in Ohio. He has been the invited keynote speaker at over 30 national meetings and conferences. Jerry has authored 35 technical papers and publications and edited three civil engineering books.

Darryll Dockstader Darryll Dockstader has served as the Florida Department of Transportation (FDOT) Research Center Manager since June 2009. The Research Center facilitates FDOT's research program, including related technology transfer and implementation activities. Before being appointed to this position, he spent nine years as the Technology Transfer Coordinator for the Research Center and three as a project manager in the FDOT Office of Information Systems. Darryll was a member of NCHRP Synthesis panel 20-05 (41-06), Transportation Technology Transfer: Successes, Challenges, and Needs, and currently is a member of NCHRP panel 20-63B, Performance Measurement Tool Box and Reporting System for Research Programs and Projects. Darryll is a graduate of Eckerd College in St. Petersburg, Florida, and holds M.A. and Ph.D. degrees from Florida State University.

Anne Ellis Anne Ellis has served as Director of the Arizona Transportation Research Center for the Arizona Department of Transportation since February 2009. Prior to joining ATRC, she served as a Program Manager at the Arizona State University Global Institute of Sustainability (GIOS), working in the arena of local, county and state government engagement. She also worked in environmental health and safety compliance and research support for the ASU Fulton School of Engineering. Previous to her work at the University, she spent ten years in the private sector with AlliedSignal's Engineered Materials/Fluorine Products Division in research and new product development. She holds nine US and foreign patents. Anne holds a bachelor's degree in organic chemistry and an MBA in strategic marketing and communications from the State University of New York at Buffalo, and a Ph.D. in Public Administration, specializing in Environmental Policy, from Arizona State University. Her dissertation research focused on context sensitive solutions for roadway corridors and the public involvement and interjurisdictional leadership aspects of CSS.

Jennifer Fitch Jennifer Fitch is Research Engineer for the Vermont Agency of Transportation where she has worked since 2004. She is responsible for compilation of the annual research work program and associated budget, revising program processes for greater efficiency, developing and implementing research proposals, and participation in national and regional research initiatives. Prior to joining VTrans, Jennifer worked as a Civil and Environmental Engineer with the Johnson Company. Jennifer received her B.S. in Civil and Environmental Engineering and M.S. in Civil Engineering from the University of Vermont.

John Halikowski John Halikowski is the Director of the Arizona Department of Transportation. He serves on a variety of national and regional transportation related boards, commissions, and committees. John is the Chair of the AASHTO Standing Committee on Research. He also co-chairs the National Safety Council's Legal Factors Sub-Committee, the Arizona-Mexico Commission's Transportation-Infrastructure and Ports Committee, and the Border Governor's Conference's Logistics and International Crossings Worktable. John served for twelve years at the Arizona House of Representatives as Director of Research where he was responsible for drafting, presenting, researching and working with affected constituencies on transportation related legislation. He was involved in major legislation that included the Maricopa County Transportation plan, State Highway Construction Acceleration, Privatization, DUI, Transportation Finance and Graduated Driver Licensing. Prior to that, he spent six years with Arizona Department of Transportation (ADOT) serving in various capacities including: Executive Assistant to the MVD Director, Deputy Director, Driver License Program, Legislative Liaison, MVD Customer Services and Central Processing Administrator and MVD Deputy Director and Operations Chief. John received his Bachelor of Arts Degree in Communications from Arizona State University, and has participated in the Wharton Transportation Executive Program and AASHTO National Transportation Leadership Institute.

Barbara Harder Barbara Harder is Principal for B.T. Harder, Inc., a consulting firm focusing on transportation research management, technology implementation, transportation policy development and analysis, and program and performance assessment. She assisted FHWA in examining issues of quality, performance, and relevance of research activities. With FHWA she developed program policy and administrative procedures, including the Expert/Peer Review Handbook used in the process. In addition, she is part of a team creating an innovation infrastructure for the Pennsylvania Department of Transportation to enable products of research and other innovations to be systematically deployed and institutionalized as standard practice throughout the department. Harder was the lead author for the NCHRP Synthesis 355: Technology Transfer Successes, Challenges, and Needs. She also produced a TRB study to determine the tools of strategic value for technology transfer and implementation. In the past several years, Harder has prepared several studies, including a National Strategic Plan for Transportation Information Management for AASHTO (coauthor), NCHRP's Synthesis 312: Facilitating Research Partnerships in Transportation Research, and NCHRP's Synthesis 280: Seven Keys to Building a Robust Research Program (coauthor). Harder holds a master's in business administration in technology management and a bachelor's degree in mathematics with a concentration in physics. She is co chair of the TRB Committee on the Conduct of Research, a member of the Women's Transportation Seminar, an associate member of the American Society of Civil Engineers.

Chris Hedges Chris Hedges has worked in transportation research program management for more than 20 years. He has been with the U.S. Transportation Research Board since 1999 as a Senior Program Officer in the National Cooperative Highway Research Program. In his present position with TRB, Chris manages a diverse portfolio of research in the areas of policy, economics, planning, finance, traffic engineering, and geometric

design. He also provides administrative support to the AASHTO Research Advisory Committee. Before coming to TRB, Chris spent 14 years with the Transportation Association of Canada, most recently as their Director of Research and Information Services.

Jeff Heilman Jeff Heilman has 22 years of experience managing environmental review and developing and implementing compliance strategies for transportation and other public works projects. He has been the NEPA and Environmental project manager on some of the largest transportation projects in the Northwest, including projects exceeding \$10 billion in construction value. Jeff is recognized for developing interagency agreements, successful strategies to expedite delivery on complex projects, and innovative permitting strategies that achieve project goals as well as environmental protection and enhancement. He regularly provides NEPA strategy advice, teaches classes on NEPA, and leads or participates in various research projects. He is a Principal Consultant for Parametrix, Inc. His work has received national awards from FHWA for Environmental Excellence in Streamlining, from AASHTO for Best Practices in Context Sensitive Solutions, from the National Association of Environmental Professionals for NEPA Excellence, from the Project Management Institute and from the American Planning Association.

John Horsley John Horsley is Executive Director of the American Association of State Highway and Transportation Officials (AASHTO). From 1993 to 1999 he served at the U.S. Department of Transportation. As Associate Deputy Secretary, he was an advocate for intermodal policies, quality of life initiatives, and liaison to State and Local Governments, U.S. Congress, and transportation constituencies. A native of the Northwest, Horsley was elected to five terms as County Commissioner in Kitsap County, a community just west of Seattle. He is a graduate of Harvard, an Army veteran, a former Peace Corps volunteer and Congressional aide, and did graduate study at Georgetown. He is Past President of the National Association of Counties, and was founding Chairman of the Rebuild America Coalition.

Dave Huft Dave Huft is the Research Program Manager and Intelligent Transportation Systems Coordinator for the South Dakota Department of Transportation (SDDOT). SDDOT's Office of Research addresses a broad range of research topics in transportation design, construction, operations, maintenance, planning, administration, and market research. Dave has been active in national research activities and is a past chair of the AASHTO Research Advisory Committee. He is currently a member of the AASHTO Standing Committee on Research and the AASHTO Technology Implementation Group, and was co-chair of the International Scan on Research Program Management. Dave is a recipient of AASHTO's President's Award for Research and Alfred E. Johnson Award for Outstanding Achievement as well as the Transportation Research Board's W.N. Carey, Jr. Distinguished Service Award. He was named to the South Dakota Transportation Hall of Honor in 2009.

David Jared David Jared serves as Senior Research Engineer & Library Supervisor with the Georgia Department of Transportation. He joined the department in 1994 after completing his Civil Engineering degree at Georgia Tech University. David serves as co-chair of the AASHTO RAC Program Management and Quality Task Force.

Crawford F. Jencks Crawford F. Jencks, Deputy Director, Cooperative Research Programs, has managed TRB's National Cooperative Highway Research Program (NCHRP) since 1992 and, in addition, has more recently assumed responsibilities for the Hazardous Materials Cooperative Research Program (HMCRP) and the National Cooperative Freight Research Program (NCFRP). Prior to joining TRB in 1979, he worked for the Federal Highway Administration in the mid-west as an area engineer and assistant planning and research engineer. Crawford served on active military duty for 2 years as a combat engineer/construction officer in South Korea and as an instructor at the Army Engineer School in Virginia. A registered professional engineer (inactive) in Illinois, he holds a B.S. in civil engineering from the University of Rhode Island and a M.S. from the University of Illinois.

Chris Jenks Chris Jenks currently serves as Director of Cooperative Research Programs for the Transportation Research Board, a unit of the National Academies in Washington, DC. In this capacity, he is responsible for administering five cooperative research programs with a combined budget of approximately \$70 million annually. Each cooperative research program provides industry-driven, problem-solving, applied research to a particular segment of the transportation industry, including state DOTs, public transportation operators, airports, and the freight and hazardous materials transportation communities. Research programs administered include the National Cooperative Highway Research Program (NCHRP), Transit Cooperative Research Program (TCRP), Airport Cooperative Research Program (ACRP), National Cooperative Freight Research Program (NCFRP), and Hazardous Materials Cooperative Research Program (HMCRP). In the past, Chris has served as an Associate Director for Business Planning and Development at the Washington Metropolitan Area Transit Authority; Chief of Transit Service Planning and Operations for the Fairfax County (VA) Department of Transportation located in suburban Washington, D.C.; and has also held positions with the Pioneer Valley Planning Commission in western Massachusetts; and the Pennsylvania Department of Transportation. Chris holds an engineering degree from Cornell University.

Jack Jernigan Dr. Jack Jernigan is the team director for the Federal Highway Administration's (FHWA) Research and Technology (R&T) Program Development and Partnership Team at the Turner-Fairbank Highway Research Center in McLean, Virginia. Jack's team is responsible for 1) stewardship of the State Planning and Research Program, Part II; 2) legislative and budget issues related to FHWA's R&T program; 3) fostering partnerships within the R&T community nationally and internationally; 4) the Transportation Pooled Fund program; 5) FHWA's involvement in the National Cooperative Highway Research Program (NCHRP); and 6) fostering innovation delivery for R&T products. Before joining FHWA

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in 2002, Jack worked for more than 15 years as a highway safety researcher for the Virginia Department of Transportation. Jack has a BA, MA, and Ph.D. in Sociology from the University of Virginia.

Barnie Jones Dr. Barnie Jones is the Research Section Manager for the Oregon Department of Transportation. He has spent his entire 24-year transportation career with the Oregon DOT, where he worked first as a senior research analyst, researching effectiveness of licensing and other regulatory programs for drivers, along with a broader range of transportation topics. He became Research Section Manager in 1998. Dr. Jones has published numerous journal articles, book chapters and agency reports in the areas of highway safety, human factors in transportation, road pricing and statistical methods. He earned his bachelor's degree from Central Washington State College, his master's from Arizona State University and his doctorate from the University of Oregon. www.oregon.gov/odot/

Cameron Kergaye Cameron Kergaye has been the UDOT Director of Research since 2010. He has been with UDOT for the past twenty years and has worked in many different disciplines including design, construction, and materials. In 2003 and 2004, Cameron served as AASHTO's Engineering Management Fellow working with technical committees and policy initiatives. Cameron received his Doctorate in Civil Engineering from the University of Utah. He is the author of publications on Adaptive Traffic Signal Control Studies and Traffic Variability Studies. Cameron is also a member of American Society of Civil Engineers (ASCE) and Institute of Transportation Engineers (ITE).

Robert Kirby Robert Kirby is humor columnist with the Salt Lake Tribune. Kirby was raised in a military family. Following an LDS mission to South America, Kirby became a police officer. He left law enforcement for journalism in 1989. Robert has written for the Tribune since 1994. His column appears every Monday, Wednesday and Saturday, where it is closely followed by world leaders. He is the author of nine books. Kirby's major literary awards do not include the Nobel or Pulitzer prizes, but he once judged a pie contest in Sanpete County. He lives in Herriman with his wife, three married daughters, and eight grandkids. There was a cat but it died.

Tim Klein Timothy A. Klein is the Senior Policy Advisor for the U.S. Department of Transportation's (DOT) Research and Innovative Technology Administration (RITA). He supports the RITA Administrator on policy and program issues affecting RITA's missions:

- ♦ Advancing research, development and deployment of innovative transportation technologies;
- ♦ Leading university education and research in transportation; and
- ♦ Coordinating DOT's research, development and technology activities.

He serves as DOT's Program Manager for the Nationwide Differential GPS (NDGPS), a national positioning, navigation and timing (PNT) utility for multiple terrestrial applications; and is responsible for RITA's international and technical standards programs. He is active on multiple national research committees. Prior to joining DOT, Mr. Klein worked for 15 years in program and project management at NASA's Goddard Space Flight Center.

Michael LaPlante Michael LaPlante serves as Director of Finance for TRB. He has been with TRB for more than 18 years. He is responsible for financial operations management including strategic planning, financial analysis, fiscal oversight, policy development, budgeting & forecasting, contract & grant management, procurement, and proposal writing. He also has experience in management of an IT and Applications Development unit and a Publication Sales, Distribution, and Warehousing department. Michael attended Central Connecticut State University and Sheffield Hallam University.

Sandra Larson Sandra Q. Larson, P.E., is the Research and Technology Bureau Director at the Iowa Department of Transportation, where she has served since 1988. She is responsible for planning, development and implementation of the department's research and ITS program. She has also served as Engineering Bureau Director, Bridges and Structures Office Director, a Resident Construction Engineer, and a Bridge Design Engineer. She is the TRB and AASHTO Research Advisory Committee state representative for the Iowa DOT and currently serves on several TRB committees including Surface Transportation Weather, Portland Cement Pavement Construction and General Structures. She is the AASHTO Research Advisory Committee Chair, Standing Committee on Research Vice-Chair and past Highway Subcommittee on Bridges and Structures Vice-Chair. She is also the Chair of the NCHRP IDEA Committee and served on the Committee for the SHRP 2 Implementation and National Research Council-appointed Committee for Pavement Technology Review and Evaluation. Sandra is a member of the recently formed FHWA Long-term Bridge Performance Program Expert Working Group led by the Center for Advanced Infrastructure and Transportation at Rutgers University, New Jersey. She has bachelor's degrees in civil engineering and general science/biology from Iowa State University and is a licensed civil and structural engineer in Iowa.

Susan Martinovich Susan Martinovich is the Director of the Nevada Department of Transportation and has been with the agency for more than 26 years. As Director, she is responsible for the daily operations of the department that has an annual operating budget of over \$800 million and more than 1,750 employees. Ms. Martinovich is involved in national activities in the areas of project management, safety, and research. She is actively involved in the American Association of State Highway Transportation Officials (AASHTO), and was recently elected as the association's first female president. Ms. Martinovich has served in leadership positions on many AASHTO committees including Research and Highway Safety. She is a member of the Transportation Research Board Executive Committee. She is also a member of many other Transportation Research Board committees, including the Oversight Committee for SHRP-II, which will oversee the national research activities identified in SAFETEA-LU.

Ms. Martinovich has a bachelor's degree in civil engineering from the University of Nevada, Reno, and is a licensed professional engineer in Nevada and California. Ms. Martinovich is a native Nevadan and resides in Carson City. She is an avid runner and proud mother of two sons. One is an engineering graduate of the University of Nevada, Reno and the other is serving in the U.S. Marine Corps.

Jim McMinimee In March 2011, Jim McMinimee began serving as AASHTO's SRHP 2 Implementation Manager. McMinimee recently served as chief engineer and director of project development for the Utah Department of Transportation, where he worked for 25 years. Throughout his career with UDOT, he served in progressive leadership roles in maintenance, operations, and project development. McMinimee led the successful implementation of many initiatives for UDOT in such diverse subject areas as performance management, innovative contracting, partnering, maintenance management, traffic operations, design, software development, Olympic operations, and project management. He also helped UDOT pioneer the use of construction manager general contracting on highway projects, and oversaw the technical expertise and process for several methods of accelerating program delivery. After leaving UDOT, McMinimee worked for a year with Applied Research Associates, a national transportation research firm. He worked with ARA on FHWA's Highways for Life Program, and most recently on the administration's "Every Day Counts" initiative. McMinimee holds a Bachelor of Science degree in civil engineering from the University of Utah, conducted master's work at Utah State University, and is a registered professional structural engineer in Utah.

John Moulden John works in FHWA's Office of Corporate Research, Technology, and Innovation Management. He serves as the National Partnership Program Manager on the R&T Program Development and Partnership Team. John provides leadership in developing and implementing a national highway research agenda with broad-based customer support. He has had a distinguished career as a highway safety leader. Most recently, he served as President of Transportation Safety Associates, a Silver Spring, Maryland, highway safety consulting firm. John is a past president of the National Commission Against Drunk Driving, and he served as the Principal Staff Assistant on the Presidential Commission on Drunk Driving. John is a returning Federal employee, having spent the first 20 years of his career with the National Highway Traffic Safety Administration and the National Transportation Safety Board. John has a B.A. in Experimental Psychology from Johns Hopkins University and an M.S. in Experimental Psychology from Penn State.

Shashi Nambisan Shashi Nambisan is the Director, Institute for Transportation (InTrans) and a Professor of Civil Engineering at Iowa State University (ISU) in Ames, Iowa. He previously served on the faculty at the University of Nevada, Las Vegas for over 17 years and led the transportation research activities there for about 13 years. He is a registered Professional Engineer in the state of Nevada. Shashi has led efforts on over 145 research and education projects that have addressed local, statewide, regional and national issues in transportation and infrastructure systems management related to policy, planning, operations, safety, and risk analysis. He has authored or co-authored more than 110 peer reviewed journal and conference publications. One of Shashi's passions is the development of the future transportation workforce. Shashi also has been very active in leadership roles of several professional societies and organizations. His current appointments include those as: a member of the Educational Activities Committee which reports to ASCE's Board of Direction; Program Chair and Chair -Elect of the ASEE Civil Engineering Division; member of the Executive Committee of CUTC, and member of the AASHTO Research Advisory Committee-CUTC Liaison Group.

Tommy Nantung Tommy E. Nantung, Ph.D., P.E., is active in research in the transportation field. He received his B.S. from Parahyangan Catholic University, Indonesia, a MSCE from the University of Michigan at Ann Arbor, and a PhD from Purdue University. He is currently the manager of pavement, materials, and construction research in the Division of Research and Development with the Indiana Department of Transportation (INDOT). He is a registered engineer in the State of Indiana and has experience in pavement, materials, and construction for 25 years. He is active in TRB, AASHTO, and numerous INDOT committees.

John Njord John Njord is a member of Governor Gary Herbert's cabinet serving as the Executive Director of the Utah Department of Transportation. He has been honored to hold this position since June 2001 under the direction of four outstanding Utah Governors. He leads a team responsible for the planning, design, construction, maintenance, and operation of Utah's transportation system. Mr. Njord has over twenty years of engineering leadership experience including several years of service with the Salt Lake Organizing Committee as Director of Transportation Planning for the 2002 Olympic Winter Games. He has championed department efficiency improvements, innovative project delivery methods, the need for speed in construction techniques, and a focus on customer service. In 2002, Mr. Njord was named "Utah Communicator of the Year" by the Public Relations Society of America. In 2004, he was President of the American Association of State Highway and Transportation Officials (AASHTO). In 2005, he was the Chairman of the Transportation Research Board (TRB) Executive Committee. He also chairs the Executive Leadership Team for Intellidriveusa.org. Mr. Njord is a graduate of the University of Utah and a registered professional engineer.

Mark Norman Mark Norman has served as the Director of the Technical Activities Division of the Transportation Research Board since 2000. This TRB division is responsible for the 200 TRB standing committees and their 4,000 volunteer members, the TRB Annual Meeting that attracts more than 10,000 transportation professionals each year, and numerous TRB conferences, workshops and publications produced throughout the year. From 1991 to 2000, Mark served as Deputy Executive Director of the Institute of Transportation Engineers. Prior to rejoining ITE, Mark served as

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the Director of Policy Development for the Highway Users Federation where he spent considerable time working on national transportation issues leading up to the ISTEA. During much of that time, Mark was also the chief staff person responsible for organizing a new association—the Intelligent Vehicle/Highway Society of America, now ITS America, and served as its Acting Executive Director. Prior to that, Mark served for 13 years as the ITE Director of Professional Programs for ITE, and four years with the New York State DOT. He has a B.S. degree in civil engineering from RPI, a masters degree in transportation from Northwestern University, and is a registered Professional Engineer.

Leni Oman Leni is the Director of the Office of Research and Library Services with the Washington State Department of Transportation (WSDOT). In this position, she is responsible for managing an innovative research program and library resources affecting all aspects of all modes of transportation in the state. She is the Executive Director of the Washington State Transportation Center, a partnership of the University of Washington, Washington State University, and WSDOT. She is also the Chair for the AASHTO Research Advisory Committee Task Force on Transportation Knowledge Management and a member of RAC Region 4 and the RAC Task Groups on Collaboration and Coordination. Leni serves as the Transportation Research Board (TRB) State Representative for WSDOT and is Chair of the new Task Force on Knowledge Management (AB010T), and a member of the Conduct of Research Committee (ABG10) and Policy and Organization Group (AB000) as well as the panel for the National Cooperative Highway Research Project titled Improving Management of Transportation Information (NCHRP 20-90). Leni's career includes a mix of fish health, spill response, watershed, and information management. She has been employed by the State of Washington since 1989.

Ned Parrish Ned serves as Research Program Manager for the Idaho Transportation Department (ITD). He joined the department in 2007, and is responsible for coordinating ITD research, development, and technology transfer activities. Ned serves as Idaho's state representative to the Transportation Research Board (TRB) and represents ITD on the AASHTO's Research Advisory Committee. He also serves as Co-chair for the Region X Transportation Consortium, is part of the RAC/CUTC Liaison Group, and serves on the advisory board for the National Institute for Advanced Transportation Technology (NIATT) at the University of Idaho. Prior to joining ITD, Ned worked as program evaluator for almost 20 years for the state legislatures in Arizona and Idaho. He received a Master of Public Administration degree from Arizona State University.

Harold (Skip) Paul Harold (Skip) Paul has been serving the Louisiana Department of Transportation and Development for over 33 years in both the research section and since 1986, the Louisiana Transportation Research Center. He has been serving as the Director of LTRC since March 2006. In addition, the LA DOTD Materials Laboratory reports to the Director, LTRC. Skip has also served as an Engineer-in-Training, Bituminous Research Engineer, and Materials Research Engineer and Associate Director, Research. As a researcher, he has over 40 publications at the Transportation Research Board, Association of Asphalt Paving Technologists and other technical publications. Skip has also served the Transportation Research Board in a number of positions and NCHRP panels culminating as the Technical Division A Chair, responsible for over 3,500 professionals in over 200 committees. He was named an Associate of the National Academies for his service. Skip is a former board member of the Association of Asphalt Paving Technologists and has participated on many FHWA advisory groups. Skip is a graduate of Lehigh University holding two degrees, a B.S. in mechanical engineering and a B.A. in English. He is a licensed engineer in the state of Louisiana.

Dale Peabody Dale is a 1983 graduate of the University of Maine with a BS degree in Civil Engineering. He has worked 28 years for the Maine Department of Transportation and currently is the Transportation Research Division Director overseeing the research program. He is very proud and fortunate to have received public service awards throughout his career including the MaineDOT Employee of the Year, the FHWA Transportation Excellence Award and the AASHTO 25 year service award.

Stephen Pepin Stephen Pepin is manager of Research and ITS Planning Programs for the Massachusetts Department of Transportation. Steve serves as Co-chair of the AASHTO RAC Administration and Education Task Force. He is active in the New England Transportation Consortium, which is focused on developing innovative solutions to transportation problems in New England. Steve also has a leadership role in the Intelligent Transportation Society of Massachusetts, which is focused on the development and deployment of "user services," the individual tools used by travelers and transportation providers.

Glenn Roberts Glenn Roberts is the Chief of Research for the New Hampshire Department of Transportation (NHDOT) located in Concord, New Hampshire. Mr. Roberts directs the NHDOT Research Program, supervises product evaluation and qualification activities, and oversees a program of bridge deck condition surveys for existing structures. His current emphasis in research includes delivery of applied research solutions, implementation, and enhancing and demonstrating the value of research. Upon joining NHDOT in 1987, Mr. Roberts served five years as a geotechnical engineer before assuming his present role in research. His experience prior to NHDOT includes nearly six years in the private sector with the firm United Engineers and Constructors, Inc. working as a structural and field engineer in the nuclear power plant construction industry. Mr. Roberts holds a bachelor's degree in Civil Engineering from the University of New Hampshire. He is a licensed professional engineer and septic system designer in New Hampshire and a Certified Public Manager. He serves on several committees of the American Association of State Highway and Transportation Officials, the National Cooperative Highway Research Program, and the New England Transportation Consortium and participated as a team member in the 2008 international scanning tour on Transportation Research Program Administration.

Amy Schutzbach Amy Schutzbach is the Engineer of Physical Research at the Illinois Department of Transportation (IDOT), a position she has held since 2007. She graduated with her B.S. in Civil Engineering from the University of Illinois at Urbana-Champaign in 1984, and her M.S. in Civil Engineering, also from the University of Illinois at Urbana-Champaign, in 1985. After graduation, she was hired by the IDOT in the Bureau of Materials and Physical Research (BMPR). At BMPR she has served in a variety of positions, including Materials Investigation Engineer, Design Technology Engineer, and Engineer of Technical and Product Studies, before assuming her current position as Engineer of Physical Research in the fall of 2007. She represents IDOT on the AASHTO Research Advisory Committee, currently is the Vice-Chair for Region 3, serves as IDOT's state Transportation Research Board representative, and has served on several National Cooperative Highway Research Program panels.

Sue Sillick Sue Sillick is the Research Programs Manager for the Montana DOT. She has been with the department for 17 years and held the research position for 13 years. Her responsibilities include managing the research, development and technology transfer programs of MDT. Prior to this position, Sue was a project manager in the research programs for four years. Sue is active nationally and in Montana furthering research, development, technology transfer and library issues. She co-chairs the TRB Conduct of Research and RAC Coordination and Collaboration of Transportation Research Task Force. Finally, Sue is a member of a number of TRB committees, including Conduct of Research, Information Services and Library and Information Science for Transportation.

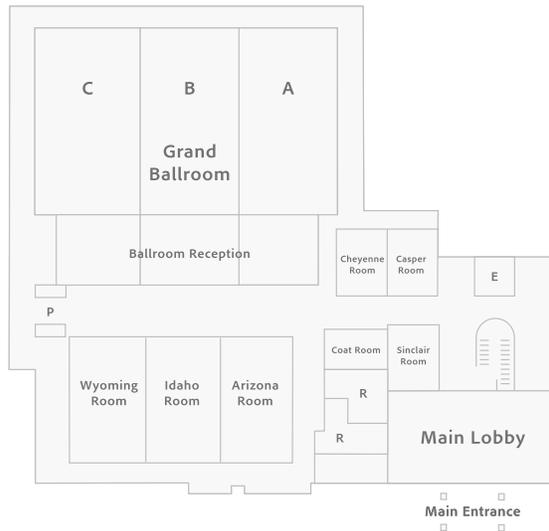
Robert Skinner Robert Skinner has been the Executive Director of the Transportation Research Board (TRB) of the National Academies since 1994. TRB is a non-profit organization that promotes transportation innovation by sponsoring professional meetings and publications, administering applied research programs, and conducting policy studies. Prior to becoming executive director, Mr. Skinner directed TRB's policy study activities. Mr. Skinner earned his bachelor's degree in civil engineering from the University of Virginia and received a master's degree in civil engineering from the Massachusetts Institute of Technology. A registered professional engineer, Mr. Skinner has received the Director's Research Champion Award from the Texas Transportation Institute, the James Laurie Prize from the American Society of Civil Engineers, and the P.D. McLean Memorial Award from the Road Gang in 2001.

Chuck Taylor Chuck Taylor currently serves as a Senior Program Officer for TRB's SHRP 2 Program. His responsibilities include the management of the four active SHRP 2 research contracts related to the interactions between highway renewal activities and underground utilities. He has over 40 years of experience in the development and application of new technology in both the highway and railroad industries. He previously was responsible for managing TRB's High-Speed Rail IDEA (Innovations Deserving Exploratory Analysis) Program. Prior to joining TRB, he was the Assistant Vice President and Senior Technical Advisor for the Association of American Railroad's Research and Test Department. His background includes technology development in the areas of communications-based control systems, ergonomics and human factors engineering; environmental remediation and pollution prevention; hazardous materials transportation risk management; and smart sensor systems. He has a B.S. in Electrical Engineering and an M.S. in Industrial Engineering.

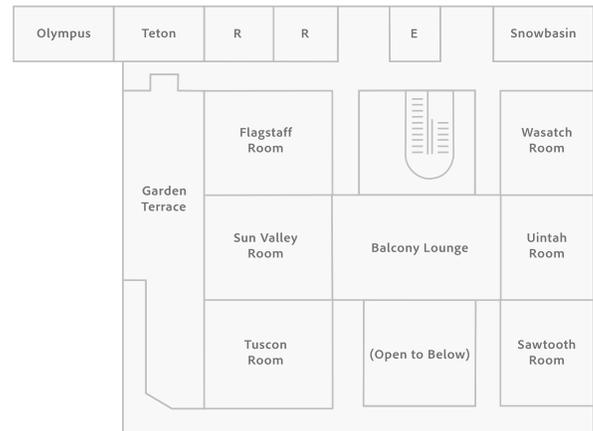
Michael Trentacoste Michael Trentacoste was named the Associate Administrator for Research, Development & Technology (RD&T) in January 2009. He also serves as the Director of FHWA's Turner-Fairbank Highway Research Center (TFHRC) in McLean, Virginia. He is responsible for leadership in the development and coordination of national research and technology partnerships, corporate facilitation and coordination of the delivery of technology and innovation and the formulation, conduct and evaluation of research and development. Prior to becoming Associate Administrator, he was Director, Office of Safety Research & Development at TFHRC. Prior to that appointment, he was Director of the Office of Highway Safety in FHWA with responsibility for development and implementation of the agency's highway safety policy and program initiatives. During his 32-year career with the US Department of Transportation, Michael has led development of the national Commercial Driver License (CDL); initiated the agency's commercial truck and bus driver fatigue research studies; and directed FHWA's 500 federal motor carrier field investigative staff and \$75 million commercial safety inspection grant program. He has managed programs in US DOT dealing with Amtrak, high-speed rail, and rail safety and held a variety of technical positions with the New York State Department of Transportation. Michael is a graduate of Manhattan College in civil engineering and has an M.S. in Transportation from Northwestern University.

Stephen Ziegler Mr. Ziegler is a Principal with ICF and has 13 years experience in software development, project management, and system integration and implementation. He is experienced with implementing environmental and transportation systems with federal, state, and commercial clients. Throughout his career, he has been responsible for project management, software development, system architecture, design of hosting operations, customer implementation, and the creation of the system maintenance and operational support processes. He is the PI on the NCHRP 20-63B project and the IT technical lead on several SHRP projects.

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