TRANSPORTATION RESEARCH from your doorstep to the stars

Hosted by AASHTO Region 3
July 10-13, 2006 * Columbus, OH

PROGRAM

Hosting agency:
the Ohio Department of Transportation
Table of Contents

Welcome, Ohio Department of Transportation Assistant Director Cash Misel .......................................................... 3

Detailed Schedule of Events ........................................................................................................................................... 4-17
  Monday, July 10, 2006 .................................................................................................................................................. 4-5
  Tuesday, July 11, 2006 .............................................................................................................................................. 6-9
  Wednesday, July 12, 2006 ......................................................................................................................................... 10-15
  Thursday, July 13, 2006 .......................................................................................................................................... 16-17

Presenter’s Biographies ................................................................................................................................................... 18-30

Maps and Directions ....................................................................................................................................................... 31-33

Acknowledgements ......................................................................................................................................................... 34

List of Exhibits ................................................................................................................................................................. 35
Welcome from the Ohio Department of Transportation

It has been 102 years since the General Assembly created Ohio’s “State Highway Department” with four employees and a $10,000 annual budget. From those modest beginnings, the department has grown to construct and maintain the seventh largest road system in the nation with the fifth highest volume of traffic and the nation’s fourth largest interstate highway network.

The year 2006 marks the 50th anniversary of the federal law that brought America its unparalleled interstate system. This 46,000-mile web of superhighways has transformed our nation and our economy. Ohio is a vital part of this system and has long been a leader in interstate construction. The benefits of the interstate system have been profound for Ohio and for America. We must use this opportunity to celebrate how far our highways have come as well as to look toward the future to ensure that we maintain and improve our highways to serve future needs.

The theme for this year’s AASHTO RAC Annual Meeting, “Transportation Research: From Your Doorstep to the Stars” is certainly a timely selection that embraces the importance of addressing today’s needs in addition to tomorrow’s challenges.

The development of Ohio’s transportation system is constantly evolving. But even though the way we build and maintain roads has advanced over the years, our four key functions have remained basically the same:

1) to build and maintain the state’s highway system;
2) To work with the federal government to build and maintain roads designated by the federal government;
3) to cooperate with local governments in matters related to the construction and maintenance of public roads and bridges; and
4) to conduct research and cooperate with organizations conducting research related to the construction and maintenance of highway systems.

Because the AASHTO RAC Annual meeting is one of the few venues that focuses on all four of our basic functions, we are especially excited to be the host state for the 2006 meeting.

On behalf of the Ohio Department of Transportation, I would like to welcome our partners from other state departments of transportation and state highway agencies, the federal government, local agencies, private sector, and universities. We hope you find the agenda stimulating, enlightening and challenging. We also hope you leave here with a renewed commitment to the cooperative exploration of innovative ways to meet the nation’s expanding transportation needs.

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Cash Misel graduated from Ohio State University receiving his Bachelor of Science in Civil Engineering.

After serving in the Army for 2 years, stationed in Virginia and Korea, Cash served in many different capacities throughout his career at the Ohio Highways Department/Department of Transportation. Cash has served in ODOT District 5, East Central Ohio as traffic engineer, operations engineer, bridge engineer and as the district deputy director.

Cash accepted the position of Assistant Director for Field Operations in 1996 where he oversaw the operations of ODOT’s 12 district offices. Cash currently serves as the Assistant Director of Planning and Production Management. Cash leads the Division of Production Management, Division of Planning, Division of Local Programs and Office of Roadway Engineering Services for ODOT.

Cash and his wife, Cheri, reside in Newark, Ohio.
### Detailed Schedule

**Monday, July 10, 2006**

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>Registration</strong></td>
<td>Easton Foyer E</td>
<td>7:00 a.m. – 5:00 p.m.</td>
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<tr>
<td><strong>Exhibits Set-Up</strong></td>
<td>Easton Foyers A &amp; B</td>
<td>8:00 a.m. – 12 noon</td>
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<tr>
<td><strong>Exhibits OPEN</strong></td>
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<td>12 noon – 7:30 p.m.</td>
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<tr>
<td><strong>Workshop 1: RAC 101 Course</strong></td>
<td>Easton A</td>
<td>9:00 a.m. – 12 noon</td>
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<tr>
<td>Organizer &amp; Moderator:</td>
<td>Dick McReynolds &amp; Chris Hedges</td>
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<td><strong>Objectives/Goals:</strong></td>
<td>Provide a detailed overview of information that new RAC members need to know about national programs including, for the first time, information about the 7 Keys to a Robust Research Program. Offer new RAC members an opportunity to ask questions of RAC officers and others in a small setting.</td>
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<td><strong>Desired Outcomes:</strong></td>
<td>Increase the knowledge of new RAC members about research activities at the national level and their duties as RAC representatives.</td>
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<tr>
<td><strong>Lunch</strong></td>
<td>on your own</td>
<td>12 noon – 2:00 p.m.</td>
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<tr>
<td><strong>Workshop 2: Cultivating Research Collaborations</strong></td>
<td>Easton A</td>
<td>2:00 – 5:00 p.m.</td>
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<tr>
<td>Organizer &amp; Moderator:</td>
<td>Pat Casey, CTC &amp; Associates LLC</td>
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<td><strong>Objectives/Goals:</strong></td>
<td>Discuss strategies for state DOT research programs to increase collaborative research efforts with other state programs, universities, and others, such as federal agencies and private companies.</td>
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<td><strong>Desired Outcomes:</strong></td>
<td>Greater collaboration, enhanced awareness of new technologies and practices, reduced duplication of research activities and faster implementation of results.</td>
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**Session Synopsis:**

- **Introduction: Why we need to collaborate.**
  - Pat Casey, CTC & Associates LLC and Sue Lodahl, MN DOT  
  (2:00–2:05)

- **TRB Conduct of Research Committee.**
  - Laurie McGinnis, Univ. of Minn.; Gary Frederick, NY DOT; Jason Bittner, MRUTC; Sue Sillick, MT DOT  
  (2:05–2:50)
  
  Provide an overview of the role, membership, and strategic plan of the TRB Conduct of Research Committee. Conduct a panel discussion of the committee’s goal to deliver information and resources to members of the research community to facilitate collaboration. Describe the status of the development of a one-stop Web site with information about and links to programs, timelines, and procedures of transportation research organizations.  

(continued...)
Monday, July 10, 2006 (continued)

* TRB Technology Transfer Committee
  Lisa Pogue, APWA
  Provide an overview of the role, membership, and strategic plan of the TRB Technology Transfer Committee. Discuss technology transfer and how it can help your research program turn research into innovation. Lead a group exercise to apply each person's ideas on technology transfer to a common problem. Introduce new T2 methods and technologies identified by the committee.

* BREAK
  (no refreshments)

* Taking Research Across State Lines.
  Sue Lodahl, Minnesota DOT
  Mn/DOT's process for using out-of-state universities for research and the University of Minnesota Center for Transportation Studies Research Conference
  Dave Lippert, Illinois DOT
  The North Central Pavement Research Coordination Partnership (The Frozen Four) and other pooled funds aimed primarily at collaboration
  Jason Bittner, MRUTC
  Regional Transportation Research Conferences
  Vicky Fout, Ohio DOT
  Ohio's Cooperative Research Seminar, a forum for sharing the DOT's research strategic plan and soliciting input from the research community.
  Pat Casey, CTC & Associates LLC and Sue Lodahl, Minnesota DOT
  Workshop Wrap-up – What are the takeaways from the workshop and next steps?

* SCOR/RAC Officers' Strategic Planning Session
  Location: Regent 3
  12 noon – 5:00 p.m.
  (Lunch sponsored by NCHRP)

**Organizer & Moderator:**
Wes Lum, CALTRANS

**Scribe:**
Chris Hedges, TRB

**Attendees:**
RAC Officers, SCOR Members and Invited Guests

**Objectives/Goals:**
This session has been organized to take advantage of the talents and opinions of invited SCOR/RAC partners attending the National RAC meeting, to meet with RAC Officers in a relaxed environment, and to discuss both short range and long range opportunities for RAC to consider as it moves forward with its national agenda. The session will start with a working lunch where initial RAC thoughts will be discussed and a consensus agenda will be finalized to guide the rest of the discussions. The results of this session will be presented to the full RAC membership at Thursday’s RAC Business Meeting.

* Rejuvenation Break
  (no refreshments)
  5:00 – 6:00 p.m.

* Welcome/Networking Reception
  Location: Easton B
  6:00 – 7:30 p.m.
**Tuesday, July 11, 2006**

- **Registration**  
  Location: Easton Foyer E  
  7:00 a.m. – 5:00 p.m.

- **Exhibits OPEN**  
  Location: Easton Foyers A & B  
  7:00 a.m. – 5:00 p.m.

- **Networking Breakfast**  
  Location: Easton B  
  7:00 – 8:00 a.m.

- **Opening Session**  
  Location: Easton A  
  8:00 – 8:30 a.m.

  Welcome from SCOR/RAC  
  Wes Lum, CALTRANS

  Welcome from Ohio DOT  
  Cash Misel, Ohio DOT

  Welcome from Planning Committee  
  Monique Evans, Ohio DOT

- **Plenary Session 1:**  
  Location: Easton A  
  8:30 a.m. – 12 noon

**National Topics**

Organizers:
  Wes Lum, CALTRANS; Richard Long, Florida DOT; Chris Hedges, TRB; and Bob Reilly, TRB

Moderators:
  Panel 1 - Wes Lum  
  Panel 2 – Richard Long

Scribe:
  Chris Hedges

Objective/Goal:
  Provide information to RAC members on national organizations and programs.

Desired Outcomes
  Enable RAC members to better understand national research activities and issues so they can make informed decisions when managing their agency’s research program.

Session Synopsis:
  Directors of national organizations and programs will share pertinent information with RAC through presentations and discussion.

**Panel 1 Topics:** (8:30-10:00)

- **Introductions:** Wes Lum, CALTRANS  
  (8:30-8:35)

- **AASHTO Activities Report:**  
  John Horsley, AASHTO  
  (8:35-8:55)
  An update on the status of SAFETEA-LU research funding technical corrections, plans and needs from RAC/SCOR for reauthorization, and positions and policies affecting research, such as STEP, followed by an overview of issues AASHTO is addressing.

- **SCOR Report:**  
  Victor Mendez, Arizona DOT  
  (8:55-9:05)
  A summary of issues, activities and direction of SCOR.

- **TRB Report:**  
  Bob Skinner, TRB  
  (9:05-9:25)
  An overview of TRB activities and issues for all divisions and for the Executive Committee.

- **FHWA Activities Report:**  
  Denny Judycki, FHWA  
  (9:25-9:45)
  An update on the various research programs being conducted by the FHWA, including STEP and ITS, and a presentation of the Road Maps that have been developed for select research areas.

- **Discussion**  
  (9:45-10:00)
Networking Break *(beverage service)*  
* Location: Easton Foyer A  
10:00 – 10:30 a.m.

Panel 2 Topics:  
* Introductions: Richard Long, **Florida DOT**  
  (10:30-10:35)  
* RITA Report  
  Timothy Klein, **RITA**  
  An overview of the various research programs and activities being conducted by the RITA, including UTCs and Federal Research Coordination.  
  (10:35-10:55)  
* UTC Report  
  Daniel Turner, **CUTC & University of Alabama**  
  A status report on the efforts UTCs are making to partner with State DOTs and the US DOT.  
  (10:55-11:10)  
* SHRP II Report  
  Ann Brach, **TRB**  
  A review of the SHRP II Program Status, Committees, Funding and Schedule and the role of State DOT SHRP II Coordinators.  
  (11:10-11:25)  
* Cooperative Programs Report  
  Bob Reilly, **TRB**  
  A summary of the NCHRP program for 2007 and the status of various cooperative research programs managed by TRB.  
  (11:25-11:40)  
* Discussion  
  (11:40 – 12 noon)

Lunch with Guest Speaker  
* Location: Easton B  
12 noon – 1:30 p.m.

Larry Orcutt, **CALTRANS** – “Positive Impact of Research - Changing How We Do Business”

Larry will discuss a software package, Construction Analysis for Pavement Rehabilitation Strategies (CA4PRS), that enables pavement rehab projects to be scoped to balance costs, quality of construction, length of construction, disruption to existing traffic and neighborhoods, etc. This software was developed through a pooled fund research study and is used as a planning tool to support CALTRANS’ Long-Life Pavement Rehabilitation Strategies (LLPRS).

Plenary Session 2:  
* Location: Easton A  
1:30 – 2:30 p.m.

**Long-Range Research and Innovation**

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<th>Organizer &amp; Moderator:</th>
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<tr>
<td>Sandra Larson, <strong>Iowa DOT</strong></td>
<td>Sue Sillick, <strong>Montana DOT</strong></td>
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Objectives/Goals:  
Describe two perspectives on long-range research and innovative thinking, one from the FHWA and the other from industry.

Desired Outcomes:  
Stimulate thinking among attendees about innovation and long range transportation research and motivate them to consider how these issues should be addressed from their own perspectives.

Session Synopsis/Topics:  
* FHWA’s Advanced Research Agenda  
  Ariam Asmerom, **FHWA**  
  The FHWA is in the process of developing an Exploratory Advanced Research Program, authorized under **(continued...)**
SAFETEA-LU legislation to address “longer-term, higher-risk research with potentially dramatic breakthroughs for improving [surface transportation].” Program Development has included activities to develop a definition, baseline assessment and input into an advanced research agenda. This presentation builds on previous updates to RAC and stakeholders on the status and progress to date in building this important research program.

**VII (Vehicle Infrastructure Integration) – A Vision for the Future**

**Ralph Robinson, VII Consortium**

The basic wireless framework of VII is an enabler for a wide variety of services and features that represents a game-changing departure in the automotive experience. While launched to provide initial safety and mobility applications on today’s highways, the promise of VII will be realized when high densities of equipped vehicles are achieved and vehicles can begin coordinating movements among themselves in a manner that is safe and free from accidents. This will be accelerated when research and development moves away from the development of post crash protection and supports the necessary research to develop vehicles that will “refuse to have accidents” in the first place. This presentation will explore how we get from here to there.

**Networking Break** *(Graeters Ice Cream Break)*  
**Location: Easton Foyer A**  
**2:30 – 3:00 p.m.**

**Plenary Session 3:**

**Demonstrating the Value of Research**  
**Location: Easton A**  
**3:00 – 5:00 p.m.**

**Objectives/Goals:**

Highlight specific examples of how research has benefited public and private sector transportation agencies.

**Desired Outcomes:**

Stimulate discussion on the different ways managers can demonstrate the value of research to an organization, add to the knowledge base of specific value-added transportation related examples and formulate new research partnerships within the transportation research community.

**Session Synopsis:**

- **Demonstrating the Value of Research – Intermodal Industry Perspective**  
  **Barbara Kennedy, SWIFT Intermodal Ltd.**  
  A description of how Swift Transportation has taken internal and external research and applied it to their practices and educational programs along with a discussion of research that has impacted various areas of their business.

- **Video News Release to Demonstrate the Value of Research**  
  **Shana Lindsey, Utah DOT**  
  A discussion of UDOT’s Media Marketing Program, which was implemented as a systematic, formal, proactive approach to interface with the media and the public on key issues, including the promotion of major UDOT initiatives.

- **Value of Research for Hot-Mixed Asphalt (HMA) Industry**  
  **Fred Frecker, Flexible Pavements of Ohio**  
  Research forges industry ties with academia, introduces engineering students to HMA, keeps industry fresh and keeps our customers focused on HMA. This presentation will highlight several HMA related research projects that have impacted design and selection processes and resulted in increased competition and cost savings.

- **Q&A and Audience Discussion**  
  **(4:30 – 5:00)**
Tuesday, July 11, 2006 (continued)

* Rejuvenation Break (no refreshments)  
  5:00 – 5:30 p.m.

* Bus Departs for COSI  
  Location: Outside Easton Hilton Lobby  
  5:30 p.m.

* Evening Business Meeting  
  Location: COSI Columbus  
  6:00 – 10:00 p.m.

Dinner and tour of Star Wars special exhibit

Guest Speaker: Glen Hiemstra - Founder, Futurist.com

“The Future is Not What it Used to Be”

Discontinuous changes in population dynamics, technology, energy, environment and the nature of the economy all suggest that transportation needs to change as well. The longer we wait to deeply re-think transportation, the more wrenching change may be. Glen Hiemstra, author of “Turning the Future Into Revenue”, will look at the future and ask what lessons it is trying to teach us right now.

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Glen Hiemstra is the author of “Turning the Future into Revenue”, from John Wiley & Sons, in book stores July 28, 2006. In addition to his new book, Glen is the co-author of Strategic Leadership: Achieving Your Preferred Future, and is an expert in Preferred Future Planning. The Founder and Owner of Futurist.com, Glen is an internationally respected speaker and consultant for business, government, and associations. As the leading public interest futurist in the United States, Glen has been listening professionally and then sharing compelling lessons from the future for two decades.

Glen has been compared to Alvin Toffler for the scope of his vision, and to James Burke for his style. The Public Forum Institute calls him a “national treasure”. A recent audience member said, “This is the most excited I have felt about the future since [I heard] Gene Roddenberry....”

In his programs Glen offers insight into surprising developments shaping the 21st Century including science and technology, population and social trends, the economy, energy, transportation and more. In his engaging presentations Glen takes a 360-degree look at the future, and discovers solutions that are from neither the left nor right but rather, from the future. His presentations have a lasting impact. A recent client put it this way:

“This is not one of those presentations you just file and forget. This is going to change how we think and what we do, for a long time to come.”

Glen was educated at Whitworth College, the University of Oregon, and the University of Washington. Prior to going into business in 1987, he was an award-winning educator, selected Most Influential Professor at Whitworth College. Glen is currently a Visiting Scholar at the Human Interface Technology Lab at the University of Washington, which works on virtual and augmented reality technology.
Wednesday, July 12, 2006

* Registration  
   Location: Easton Foyer E  
   7:00 a.m. – 5:00 p.m.

* Exhibits OPEN  
   Location: Easton Foyers A & B  
   7:00 a.m. – 5:00 p.m.

* Networking Breakfast  
   Location: Easton B  
   7:00 – 8:00 a.m.

* Announcements, Monique Evans  
   Location: Easton B  
   8:00 – 8:30 a.m.

Concurrent breakout sessions will be offered in the following three tracks:

<table>
<thead>
<tr>
<th>TRAC A: Research Dissemination Issues</th>
<th>TRAC B: Research Partnering Issues</th>
<th>TRAC C: Research Management Issues</th>
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**TRAC A1:**  
Transportation Information Revolution: The World at Your Doorstep

Organizers:  
Midwest Transportation Knowledge Network (MTKN) Partnerships Committee

Moderator:  
Janet Bix, Ohio DOT

Scribe:  
Emily Glenn, Ohio DOT

Objectives/Goals:  
The session will describe tools that academics, policy-makers and practitioners around the globe use to identify transportation information. It will also offer suggestions on what research programs need to do to take advantage of these resources to avoid redundant research and promote implementation of research results.

Desired Outcomes:  
An improved understanding of information services and products including OCLC WorldCat, TRIS, TRANSPORT, TRIS Online, RiP and TL Cat, and how they can be used by their target audiences to better manage transportation research programs.

Session Synopsis:

* Transportation Research: From Your Doorstep to the Stars – A Look @ OCLC  
  George Needham, OCLC  
  OCLC is the largest membership-based, nonprofit, library cooperative group in North America. It manages a database of over one billion library records, coordinates lending among libraries, offers software and services to help librarians provide answers more effectively, and sponsors research on many topics related to libraries and information science issues. This presentation will offer an overview of OCLC activities, focusing on the group catalog created by transportation libraries.

* The National Transportation Library: Tools for a National Knowledge Network  
  Joyce Koeneman, RITA/NTL  
  The NTL is an infant in the world of national libraries, but even as an infant born into the 21st century information environment, it is developing the muscles that are most appropriate for its role as a national network.

* Broadening Knowledge of Research Results Through Online Information Tools  
  Nelda Bravo, FHWA/TFHRC  
  This presentation will describe and briefly demonstrate online information tools used by other researchers, academics and practitioners when they need information that will help them find a solution to a problem, answer a

(continued...
question, or do their job better & faster. It will also cover what you need to do to make sure your research results will be there for them to find.

* Questions and discussion (9:45 – 10:00)

* TRAC B1: Location: Easton D 8:30 – 10:00 a.m.
Local Research Boards and LTAP

Organizer & Moderator: Sue Lodahl, Minnesota DOT
Scribe: Cory Johnson, Minnesota DOT

Objectives/Goals:
Introduce the audiences to the Iowa and Minnesota local research boards and demonstrate how the implementation of the results of research funded by these boards has a natural flow to an LTAP center.

Session Synopsis/Topics:
* Minnesota’s Local Road Research Board (8:35-9:00)
  Sue Lodahl, Minnesota DOT
  Established in 1959 through state legislation, the Minnesota Local Road Research Board (LRRB) has sponsored more than 150 individual projects on a variety of topics. LRRB research generally falls into four main categories: materials and methods used in constructing and maintaining pavement; drainage systems and other utilities under the pavement; management of the roadside environment; and bridge construction and maintenance.

* Minnesota’s Local Technical Assistance Program (9:00-9:30)
  Jim Grothaus, Minnesota LTAP
  The mission of the LTAP program is to foster a safe, efficient, environmentally sound transportation system by improving the skills and knowledge of local transportation providers through training, technical assistance, and technology transfer. Minnesota LTAP serves these and other training needs through workshops, personalized training, demonstrations, distance learning, events, seminars, and conferences. Training is at the heart of Minnesota LTAP.

* Iowa Highway Research Board (9:30-10:00)
  Sandra Larson, Iowa DOT
  The Iowa Highway Research Board (IHRB) is an advisory board responsible for assisting the Iowa Department of Transportation, Iowa Counties and Iowa Cities in the development and continuation of an effective program of research and development in highway transportation.

* TRAC C1: Location: Easton E 8:30 – 10:00 a.m.
Research Project Management

Organizer: Don Davidson, Missouri DOT
Moderator: Mara Campbell, Missouri DOT
Scribe: Dick McReynolds, Kansas DOT

Objectives/Goals:
The goal of this session is to understand how organizations manage and track research from beginning to implementation. Attention can be given to how organizations keep projects on-time and on-budget despite unforeseen obstacles.

Desired Outcomes:
Participants will gain new perspectives on research project management tools and processes used by other organizations. This may result in changes to existing management practices and/or negotiation with senior management on research selection and deliverables.

(continued...)
Session Synopsis:
Introduce participants to new methods for: tracking the full life of research projects; keeping projects on-time and on-budget; tracking research implementation; ensuring project milestones are achieved; and evaluating current project management processes.

* Does Your Organization Depend on You? (8:30-9:00)
Ernie Perry, Missouri DOT
MoDOT has turned the old research model on its head and replaced it with a division called Organizational Results. This presentation outlines MoDOT’s new “research” model that links our performance management system (the Tracker) to research, process improvements, a quality emphasis, and a business focus. This approach places “research” in the daily role of supporting the department’s performance through closing performance gaps.

* Managing Beyond the Project (9:00-9:30)
Frank Darmiento, Arizona DOT
Research project managers at ADOT manage studies from their inception through publication of the final report. Their work continues by monitoring implementation associated with the research. This monitoring task may last a few months or several years.

* LTRC Program/Project Management (9:30-10:00)
Skip Paul, Louisiana DOT
This presentation will cover organization, biennial solicitation for problem statements and delivery of the work program, and project management for a $6.0 million research program.

* Networking Break (beverage service) Location: Easton Foyer A 10:00 – 10:30 a.m.

* TRAC A2: Location: Easton C 10:30 a.m. - 12 noon
Promising Research

Organizer & Moderator:  
Dick McReynolds, Kansas DOT  
Scribe:  
Steve Foust, Asst. P&R Engineer, FHWA Kansas Division

Session Synopsis:

* Behavior of Pile-Supported Integral Abutments at Bridge Sites with Shallow Bedrock (10:30-10:50)
Dale Peabody, Maine DOT
Using finite element analysis current design methods for reinforced concrete integral abutments on piles was shown to be too conservative. The new method has the potential to save Maine DOT hundreds of thousands of dollar on each biennial transportation program. One instrumented bridge has been constructed and the measurements are being compared to predicted values.

* Automated Raised Pavement Marker Placement Device (10:50-11:10)
David Jared, Georgia DOT
Georgia DOT and Georgia Tech Research Institute have developed a working prototype machine that places raised pavement markers (RPM) along long stripes while in motion at 5 mph. Five different specified patterns can be placed. The machine can also simultaneously install two different markers (from two different hoppers) which is used on centerline patterns.

* Snow Avalanche Infrasound Monitoring System (11:10-11:30)
Ernie Scott, International Mountain Labs, Inc.
A snow avalanche monitoring system that can automatically detect and identify atmospheric infrasound generated by avalanche activity occurring in the major slide paths on WY 22 near Teton Pass has been developed. The system is monitored remotely at the local WY DOT office. The system is used in conjunction with mitigation efforts to determine their effectiveness and also to identify previously unobserved natural avalanche activity.

(continued...)
Airborne LiDAR for Design Applications  
John Ray, Ohio DOT  
Airborne LiDAR (Light Detection and Ranging) is a powerful remote sensing tool which is now being used on a regular basis in the mapping industry. Unfortunately however, airborne LiDAR has not typically being used for design applications where higher accuracy is required in an expeditious and cost effective manner. The Ohio DOT has developed and implemented processes and procedures utilizing airborne LiDAR to produce design quality products. Benefits include reduced costs, less ground control, reduced inconvenience to motorizing traffic, etcetera.

TRAC B2:  
Working with Universities & Private Companies  
Location: Easton D  
10:30 a.m. - 12 noon  

Organizer & Moderator:  
Pat Casey, CTC & Associates LLC  
Scribe:  
Kim Linsenmayer, CTC & Associates LLC

Objectives/Goals:  
(1) Describe challenges, models and successful strategies related to transportation research carried out for state DOTs by universities and private companies - from the viewpoints of a state DOT research manager, a university research program manager and a private-sector investigator.  
(2) Relate these challenges, models and practices to the research management principles put forward by AASHTO’s Executive Director John Horsley in his November 2005 letter to RITA Administrator Ashok Kaveeshwar.  
(3) Stimulate creative thinking on how to further improve working relationships and final research products.

Desired Outcomes:  
Greater collaboration, enhanced awareness of new technologies and practices, reduced duplication of research activities, faster implementation of results.

Session Synopsis:  
* Introduction  
Pat Casey, CTC & Associates LLC  
State DOT research managers are increasingly being called upon to conduct research with multiple partners in industry and academia who often have different institutional cultures, working styles and expectations. How can state DOTs learn to work more effectively with these partners to bring innovation into their departments?  
* Principles and Partnerships – Building Mutually Beneficial Research Relationships  
Kristina Boardman, Wisconsin DOT  
Reflections on the AASHTO-recommended research management principles as they apply to university transportation centers and other university programs, and to private companies contracted to perform research for state DOTs.  
* Models and Missions – Research Collaborations for Universities and State DOTs  
Hussain Bahia, University of Wisconsin-Madison  
Models for carrying out transportation research in a university setting. Funding sources, relationship to the education mission and accountability to both the university and the DOT.  
* Risks and Rewards – Private Companies Working with DOTs, Universities and UTCs  
Challenges, risks and benefits of working with universities and state DOTs. Funding, contracting, expectations and deliverables. Bringing private-sector values and mindsets to public institutions.  
* Audience discussion.
TRAC C2: Research Implementation & Technology Transfer (RITT)

Location: Easton E

10:30 a.m. - 12 noon

Organizer: Barry Partridge, Indiana DOT
Moderator: Tommy Nantung, Indiana DOT
Scribe: TBD

Objectives/Goals
Discuss the importance, need and resource requirements of a Research Implementation and Technology Transfer program and provide examples of specific successes.

Desired Outcomes
Increased awareness among transportation researchers of the importance of implementing viable research findings and emerging technology into applied practice and the issues and resources needed to ensure success.

Session Synopsis:
As important as research and innovation are, their implementation to the transportation community is not automatic in either the private or the public sector. Successful implementation is achieved in many different ways and scenarios (e.g. public agencies to private, private to public agencies, and public agencies – public agencies). Successful implementation and technology transfer strategies must account for these differences. Systematic approaches must be implemented to emphasize the technology delivery function for the transportation community to address transportation system problems. This session will highlight specific efforts that have been particularly successful.

RITT from a National Perspective - Successful Strategies for Implementation and Technology Transfer
– Fostering a Systems Approach
Barbara Harder, BT Harder, Inc.
(10:30 – 10:50)

There are successful strategies for implementation and technology transfer for research results and other innovations for State DOTs. How are these successful strategies being used, and what can a state DOT do to increase the likelihood of effective practical applications? Ms. Harder’s presentation will focus on the strategies used by state DOTs based on a recent national survey, discuss the merits of a systematic approach to implementation and technology transfer efforts (versus a piecemeal approach), and describe sample approaches that have fostered success in implementation and technology transfer efforts.

Texas DOT’s Research Implementation and Technology Transfer Success Story of Texas U-Beam
Amy Eskridge, Texas DOT
(10:50 – 11:10)
A discussion of the collaboration between the Texas Department of Transportation (TxDOT) Bridge Division and the Precast Concrete Manufacturers Association of Texas to refine the initial U-beam design and give bridge designers an aesthetic option with the economy and ease of precast construction.

FHWA – Technology Facilitation Action Plan
Susanna Hughes Reck & Joe Moyer, FHWA Office of Safety R&D
(11:10 – 11:30)
An overview of the FHWA Office of Safety R&D research deployment process featuring Technology Facilitation Action Plans highlighting coordination with stakeholders and customers, feedback mechanisms, safety technologies and innovations in varying phases of the implementation chain.

Round Table Discussion on Research Implementation and Technology Transfer
(11:30 – 12 noon)

Lunch
Location: Easton B
(Midwest Buffet)
12 noon – 1:30 p.m.
Regional Breakout Meetings
Locations:
Region 1 – Easton C
Region 2 – Easton D
Region 3 – Easton E
Region 4 – Juniper A
1:30 – 3:00 p.m.

Networking Break
Location: Easton Foyer A
3:00 – 3:30 p.m.

Regional Breakout Meetings (continued)
3:30 – 5:30 p.m.

Regional Dinners and continuation of Regional Discussions
Breakout meeting rooms will be available until 10:00 p.m.
Consult the regional chairs for locations of the regional dinners.
Region 1: Bill Carr, District of Columbia DOT
Region 2: Moy Biswas, North Carolina DOT
Region 3: Sandra Larson, Iowa DOT
Region 4: Barnie Jones, Oregon DOT
5:30 – 10:00 p.m.
Thursday, July 13, 2006

- **Exhibits OPEN**
  - Exhibits Break Down
  - Location: Easton Foyers A & B
  - 7:00 a.m. – 1:00 p.m.
  - 1:00 – 3:00 p.m.

- **Networking Breakfast**
  - Location: Easton B
  - 7:00 – 8:00 a.m.

- **RAC Officers’ Breakfast Meeting**
  - Location: Juniper B
  - 7:00 – 8:00 a.m.
  - Attendees: RAC Officers, Region III and IV reps.
  - Open Discussion on subjects, issues and motions for the RAC Business Meeting. Finalize Plans for afternoon RAC Officers Meeting.

- **Regional Reports**
  - Location: Easton A
  - 8:00 – 9:00 a.m.
  
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- **Plenary Session 4: Region 3 Research Highlights - “Pooled Fund Success Stories”**
  - Location: Easton A
  - 9:00 – 10:00 a.m.
  
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<th>Organizer &amp; Moderator:</th>
<th>Scribe:</th>
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<td>Sue Lodahl, Minnesota DOT</td>
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  **Session Synopsis:**
  - **Construction of Crack Free Concrete Bridge Decks TPF-5(051)**
    - 9:00 – 9:20
    - Richard L. McReynolds, Kansas DOT
    - General information about the Kansas DOT pooled fund program followed by detailed information on the TPF-5(051) project, which is currently about half way to completion. This on-going $950,000 pooled fund project, led by Drs. Darwin and Browning at KU, is fulfilling its mission to help partners specify materials and construction procedures known to reduce or eliminate bridge cracking, help monitor construction of their test bridge, and then track the performance of bridge decks in service. Several bridges have been constructed to date using the new procedures. The presentation will give an overview of the project and report on activities and finding to date.
  
  - **North/West Passage Pooled Fund Program TPF-5(093)**
    - 9:20 – 9:40
    - Sue Lodahl, Minnesota DOT
    - General information about Minnesota DOT’s pooled fund program followed by detailed information on the TPF-5(093) project, which is a corridor coalition and is currently in Phase II of the study. The initial focus of the Phase I project was on the I-94 Corridor within the three funding states. The goal of Phase II is to expand the geographic focus of Phase I and to implement and evaluate integrated traveler information systems and coordinate maintenance operations across all state borders.
  
  - **Development of Standards for Geotechnical Management Systems TPF-5(111)**
    - 9:40 – 10:00
    - Kirk Beach, Ohio DOT
    - A detailed presentation on the TPF-5(111) project, which has a unique partnership structure. The focus of the project is to develop an international standard interchange format for geotechnical data. The anticipated outcome is a final data dictionary and XML schema.

- **Networking Break**
  - (High Energy Break)
  - Location: Easton Foyer A
  - 10:00 – 10:30 am
**Roundtable Discussion**

*Location: Easton A*  
10:30 a.m. – 12 noon

**Organizer:**  
Skip Paul, Louisiana DOT

**Moderators:**  
Skip Paul, Louisiana DOT and  
Moy Biswas, North Carolina DOT

**Scribe:**  
Randy Battey, Mississippi DOT

**Objectives/Goals:**  
Discuss topics of interest to research administrators and managers.

**Desired Outcomes:**  
This session will facilitate interaction between novice and experienced research managers with the expectation of improving both the knowledge and practice of running a full service research program. It is anticipated that participants will be able to take away ideas to improve the quality and efficiency of their research programs.

**Session Synopsis:**  
The roundtable discussion has become a valued and popular session at the RAC national summer meetings for the last two years. Specific areas of concern or interest are solicited from the membership with discussion led by the moderators or a panel of experts in the area. Additionally, continuation of discussion of areas of concern/interest from other conference sessions may be included.

**RAC Business Meeting**

*Location: Easton A*  
12 noon – 1:00 p.m.

**Organizers & Moderators:**  
Wes Lum, CALTRANS  
and Richard Long, Florida DOT

**Scribe:**  
Chris Hedges, TRB

**Session Synopsis:**  
This session will mainly report on the results of the Strategic Planning Session held on Monday. Should there be a need to form a subcommittee(s) or other type of group(s) this will be the place to form them and solicit membership. There is the possibility that other action items will be developed during the meeting. They will be acted upon here. The Chair will also receive comments from the floor on any other business issues.

**Departing Remarks**  
Monique Evans, Ohio DOT  
*Location: Easton A*  
1:00 – 1:15 p.m.

**Adjourn**  
1:15 p.m.

**RAC Officers’ Meeting**  
*Location: Columbus Board Room*  
2:30 – 4:30 p.m.

**Organizers & Moderators:**  
Wes Lum, CALTRANS  
and Richard Long, Florida DOT

**Scribe:**  
Chris Hedges, TRB

**Attendees:**  
RAC Officers, Region III and IV reps.

**Session Synopsis:**  
This session will mainly debrief attendees on the results of the National Meeting Agenda and coordinate roles, duties, and schedules for the next year. Current teleconference practices will be discussed along with all known outstanding issues that were not adequately addressed during the previous portions of the meeting.

**Adjourn (for RAC Officers)**  
4:30 p.m.

**RAC Officers’ Dinner (optional)**  
6:00 – 8:00 p.m.
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Ariam has been with the Federal Highway Administration for over 4 years, working in RD&T Program Development and Evaluation and with the Office of International Programs. She has worked in FHWA’s Office of Corporate Research & Technology since its creation in 2004 and is focused primarily on implementing an Advanced Research Agenda-setting process and plan.

Prior to joining FHWA, Ariam worked in the private sector as a consultant with Parsons Brinckerhoff, Inc. and Lockwood, Andrews and Newnam in Dallas, Texas. This followed over five years with the Texas Department of Transportation, as an Engineer-in-Training in the Dallas District. Ariam is a licensed Engineer and a member of the American Institute of Certified Planners (AICP). She holds a Bachelor of Science in Civil Engineering from the University of Virginia.

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Kirk is the Geology Program Supervisor in the Office of Geotechnical Engineering for the Ohio DOT. In this position, he coordinates Ohio’s GeoHazard Inventories & Risk Assessments, related Research activities, provides design support, and manages ODOT’s drilling program. He serves as Co-Chair of the Appalachian States Coalition on Geohazards in Transportation. Kirk has been instrumental in the development of a data and document management system for Ohio DOT’s geotechnical information. He is currently involved with the development of innovative approaches to drainage controls involving landslides and rockfalls and in the development of a sonar imaging system for flooded subsurface voids. Kirk has worked at Ohio DOT for 6 years. Prior to his time with ODOT, Kirk worked in private consulting and with the Ohio DNR.

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Professor Hussain Bahia joined the faculty at the University of Wisconsin-Madison in 1996 after serving at the Asphalt Institute and Penn State University, where he earned his Ph.D. He is currently Technical Director of the Wisconsin Highway Research Program. He has been the principal investigator for numerous state and national research projects and serves as a consultant to private companies and agencies in the United States, South America, the Middle East and South Africa. He is a member of several TRB committees, national engineering associations and FHWA’s Asphalt Expert Task Group. He has authored more than 50 peer-reviewed publications and is an associate editor of the International Journal of Road Materials and Pavement Design.

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Moy Biswas received his Ph.D. in Applied Mechanics from the University of Virginia, where he researched for the Virginia Transportation Research Council and the National Radio Astronomy Observatory designing radio telescope antenna. Virginia Transportation Research Council brought him to this country, and to this day, Moy holds the Virginia Transportation Research Council responsible for his subsequent actions.

Moy is a registered professional engineer, who worked in New York City for consulting engineers. He designed conventional civil engineering facilities, nuclear power plants, and nuclear fusion reactor systems. Moy also taught structural engineering at Texas A&M University and researched at the Texas Transportation Institute. He then taught at Duke University, where he founded the Transportation & Infrastructure Research Center. Currently, Moy is the Manager of Research with North Carolina DOT.
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Jason is Deputy Director of the Midwest Regional UTC at University of Wisconsin-Madison. He earned degrees from American University in Washington and in Public Administration from the La Follette School at UW-Madison. He is an adjunct professor at Edgewood College and previously served as an assistant municipal manager in Ohio. Jason is a member of the TRB Committee on Conduct of Research and the Program Chair for the 2007 National Transportation Asset Management Conference.

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Kristina Boardman is the DOT Officer with the WisDOT Division of Business Management, which is responsible for human resources, information technology and business services, including research, for the entire department. From January to June 2006 she served as Acting WisDOT Research Administrator and Research & Communication Services Section Chief. Prior to joining WisDOT Kristina worked for ten years as a research assistant with the Wisconsin State Assembly, specializing in transportation-related legislation, such as lowering the state’s BAC limit, primary seatbelt enforcement and recodification of town highway statutes. She has a Bachelor’s Degree in Political Science from Augustana College in Rock Island, IL.

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Janet Bix is library administrator at the Ohio Department of Transportation. She is the Chair of the Midwest Transportation Knowledge Network (MTKN), a network of transportation libraries in the Midwest. She is also a member of the Technical Advisory Committee (TAC) of the Transportation Library Connectivity Pooled Fund Study. Both groups are working to implement a national transportation technology transfer program for information and knowledge management. Prior to coming to ODOT, she was Director of the National Ground Water Information Center.

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Dr. Ann Brach is the Deputy Director of the SHRP II at TRB. She is currently responsible for starting up this new, congressionally-mandated program. Prior to holding this position, she served as a Senior Program Officer in Policy Studies at TRB where she worked with committees of experts in all areas of transportation to advise the government on issues related to strategic planning and program development for transportation research.

Prior to her work at TRB, Ann 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. She obtained her B.S. in civil engineering from Northeastern University in Boston and received the MS and Ph.D. from the MIT, where she focused on management of research and innovation in the construction industry.
In May 2006, Nelda Bravo became Program Management Analyst in FHWA RD&T’s Office of Program Development and Evaluation. Projects Nelda works with include those related to FHWA partnerships and serving as liaison to the TRB Research Technology Coordinating Committee and SHRP II.

For the past 5 years Nelda served as Assistant Director of the Office of Transportation Information Resources in the Research and Innovative Technology Administration. In that position, she was also Director of the National Transportation Library.

Her previous experience includes assignments in the Federal Highway Administration’s Resource Center in Olympia Fields, and at headquarters in the Office of International Programs, and the Office of Professional Development. She did both her undergraduate and graduate work at Texas A&M.

Pat Casey is the principal of CTC & Associates LLC, a technical communications company serving transportation professionals. As a consultant to the Wisconsin Department of Transportation and the University of Wisconsin, he and his team of researchers, writers and editors provide a variety of services to stimulate innovation. Previously, Pat was general manager and vice president for communications of a research and testing laboratory, a congressional and gubernatorial staff member, an education administrator, and a secondary school teacher. He has a bachelor’s degree in English from Michigan State University.

Mara Campbell is the Organizational Results Director for the Missouri Department of Transportation, a position she assumed June 1, 2005. This new unit is responsible for coordinating organizational performance efforts such as the development and monitoring of organizational performance measures and essential process and quality efforts coupled with innovative and applicable transportation research. The focus of the OR division is to close organizational performance gaps by implementing innovative transportation solutions.

Mara has been employed with the department for nearly ten years and has extensive experience in performance measurement and process reengineering. She is a certified Quality Manager and represents MoDOT on the Missouri Interagency Planning Council, AASHTO’s Standing Committee on Quality, and AASHTO’s Research Advisory Committee.

Frank T. Darmiento has served as Manager of the Arizona Transportation Research Center (ATRC) for the past 4 ½ years. He started with the Arizona Department of Transportation (ADOT) in 2000, coordinating the ADOT product evaluation program. The ATRC staff includes five project managers, a librarian, a field technician and three part-time support staff. Mr. Darmiento also chairs the ADOT Research Council and coordinates two product evaluation committees within ADOT. Prior to his tenure at ADOT Mr. Darmiento worked as an environmental professional, for government, private industry, and as a consultant. He holds M.S. and B.S. degrees in engineering.
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Amy Eskridge is a design engineer in the Bridge Division at the Texas Department of Transportation. Her responsibilities include development of bridge standards, design of complex bridges, technical research oversight, and LRFD implementation. She has considerable design experience with I-beam bridges, curved plate girder bridges, U-beam bridges, segmental bridges, and post-tensioning. Amy earned her master’s degree in civil engineering from the University of Texas at Austin. She joined the Bridge Division in 2002 and became a licensed engineer in 2005.

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Vicky Fout is the contract manager for the Office of Research and Development at the Ohio Department of Transportation. She coordinates the establishment of research projects for the Department and provides assistance in the overall management of the program. Prior to her work with the Ohio DOT, Vicky was a Fiscal Management Specialist at Ohio University’s Institute for Corrosion and Multiphase Technology. She holds an MBA degree from Franklin University and a Bachelors degree in Specialized Studies from Ohio University.

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Monique Evans is the Administrator of the Ohio DOT, Office of Research & Development, where she manages a program consisting of approximately 100 active projects. She has been employed at the Ohio DOT for 16 years where she previously served as the Roadway Standards Engineer and a Design Engineer in the District 5 Office of Planning & Design. Monique also has private sector experience in the areas of structural engineering and architectural design. She is a registered engineer in the State of Ohio and a graduate of the University of Cincinnati with a BS in Civil Engineering, specializing in Structures. She is involved in a number of professional activities including membership on the TRB Conduct of Research Committee, where she chairs the subcommittee on Strategic Planning. She is also the AASHTO RAC Region 3 Vice-Chair.

Fred Frecker, P.E., P.S.

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Fred Frecker has been the President of Flexible Pavements of Ohio (an affiliate of the Ohio Asphalt Pavement Association) since 1992. Prior to this position, he served in an elected capacity for 14 years as the Montgomery County Engineer and held various positions at the Ohio DOT over 13 years. Fred has a B.S in Civil Engineering and an M.S. in Engineering Management from the University of Dayton and has professional engineering and surveying licenses in the Ohio. He is a member of several professional organizations including: NSPE & OSPE; the OSPE Franklin County Chapter; ASCE – National, State and Local Chapters; the Association of Asphalt Paving Technologists and the Society of Asphalt Paving Association Executives.
Gary Frederick is the Director of the Transportation Research and Development Bureau (TR&DB) for the New York State Department of Transportation. He has 26 years of experience with the department, all within the Office of Technical Services. He has worked closely with TR&DB staff throughout his career assisting with research projects and implementing research performed by others. Now Gary and his staff work with other program areas as well as several state authorities and the local FHWA office coordinating with their research efforts and leveraging resources as needed to meet the transportation research needs of the state.

Barbara Harder specializes in research and technology management and policy and program assessment. She currently works with FHWA to facilitate the Turner-Fairbank Highway Research Center laboratory expert/peer reviews. She is part of a team preparing an innovation infrastructure for the Pennsylvania DOT’s Research Division. She recently completed NCHRP Synthesis 355 on Technology Transfer with Bob Benke and was a co-author of NCHRP Synthesis 280, “7 Keys to Building a Robust Research Program” with Tom Deen.

Prior to starting her company in 1988, Barbara was PennDOT’s Director of Research and Special Studies. She has an MBA in Technology Management and a BA in Mathematics and is a member of various TRB committees, the Women’s Transportation Seminar; and an associate member of ASCE.

Jim Grothaus is a graduate of the University of Minnesota with a B.S. in Civil Engineering. He has been the Director of the MN Local Technical Assistance Program at the Center for Transportation Studies at the University of Minnesota since August of 2005. Prior to this position he was the MN LTAP Manager/Engineer. In this role he coordinated and managed daily operations for MN LTAP, managed the development and delivery of a variety of technical assistance and training events for local and state transportation departments, developed proposals and work plans for potential funding opportunities, and managed other technical assistance and training projects.

Prior to working for MN LTAP Jim was a municipal engineer for a civil engineering consultant firm, Short Elliott Hendrickson. He was also a construction representative for the City of Stillwater in Minnesota, a para-professional for the Minnesota DOT and an engineering aide with Washington County Minnesota.

Chris Hedges has over 20 years experience in transportation research program management. He has been with the U.S. Transportation Research Board since 1999 as Senior Program Manager for the National Cooperative Highway Research Program. In his present position with TRB, Chris manages research in the areas of transportation and the environment, policy, economics, planning, finance, and information technology. He also manages the RAC/SCOR website and helps provide support to the RAC Officers.
John Horsley is the 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.

David Jared, P.E.

David Jared is the Special Research Engineer in Georgia DOT’s Office of Materials and Research. He has worked for 12 years in the Research and Development Branch, which manages Georgia DOT’s research program. His duties include developing and overseeing in-house and contract research and assisting the Branch Chief in oversight of the R&D Branch. David’s areas of special interest include asphalt pavement technology, roadway maintenance, and safety issues, including mitigation of deer-vehicle crashes. He is a member of TRB Subcommittee ANB20-2 on Animal-Vehicle Collisions and is a registered professional engineer in Georgia.

Susanna Hughes Reck

In June 2005, Susanna became the Technology Facilitator for the FHWA Office of Safety R&D. In this capacity, she is responsible for the deploying safety R&D projects, identifying the types of products and services needed by safety professionals, and translating R&D results into useable products and services.

Prior to this position, Susanna worked for the FHWA Resource Center as a Technology Deployment Specialist, where she played an essential role in developing the RC’s Technology and Innovation Funding Program, by establishing the first national Technology and Innovation program competition. Susanna has 15 years of federal service and has held a variety of administrative management, as well as, technology deployment positions. She holds a BA in Communications from George Mason University and is in pursuit of a graduate degree in Transportation Policy, Operations and Logistics from George Mason University.

Susanna is also an active member of the TRB Committee on Technology Transfer.

Dennis Judycki

Dennis Judycki is the Associate Administrator for RD&T. In this position, he is Director of FHWA’s TFHRC and 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 his RD&T appointment, he held the position of Associate Administrator for Safety & System Applications.

Dennis earned a B.S. in Civil Engineering from New England College in Henniker, New Hampshire and a M.S.C.E. from West Virginia University. Previous positions in FHWA include Urban Transportation Planning Specialist in the California Division Office; Senior Staff Assistant to the Region 5 DOT Secretarial Representative; Special Assistant to the FHWA Executive Director; Chief of the Urban Planning; and Director of the Office of Traffic Operations.
Barbara J. Kennedy

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Barbara Kennedy serves as Vice President of Human Resources and Safety. She has been at Swift since August 1999. Prior to joining Swift, Ms. Kennedy served as Vice President Human Resources at Barr-Nunn Transportation from 1994 to 1999. Ms. Kennedy received a B.A. from the University of Missouri – Columbia.

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After receiving her MS in Library Science from Florida State University, Joyce served as a library consultant for the Alabama Public Library Service, Coordinator of Bookmobiles for Prince Georges County Library System, Serials Librarian at the National Library of Medicine, and Acquisitions and Serials Systems Librarian at the US Department of Energy before becoming a transportation Librarian in 1985. She has served as Chair of the Transportation Division of SLA and in various leadership roles since 1985. She currently serves as the NTL Digital Librarian responsible for the development of TRIS Online and the Digital Preservation program. Joyce is a member of the TRB LIST Committee and the Metadata Subcommittee. On both committees she is particularly interested in standards for consistent quality of descriptive information in the digital environment.

Timothy A. Klein

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Tim Klein is the Senior Advisor for the USDOT’s Research and Innovative Technology Administration (RITA), supporting the organization on policy and program issues affecting RITA’s missions:
• Intermodal transportation research, development and deployment;
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• Transportation training and technical assistance in transportation safety, security and environmental impacts;
• Coordinating DOT’s research, development and technology programs.

Tim joined DOT in February 2001. Previously, he worked for 15 years at NASA’s Goddard Space Flight Center, leading multidisciplinary teams in project and program management. Tim received his undergraduate and graduate degrees at The George Washington University.

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Sandra Larson is the Iowa Department of Transportation Research and Technology Bureau Director. She has held this position for the last four years and previously had been the Engineering Bureau Director, state Bridge Engineer Office Director, a resident construction engineer and a bridge designer. She graduated from Iowa State University with a degree in Civil Engineering. She is a registered Professional Engineer in the state of Iowa for Civil Engineering and Structural Engineering. Sandra is also the chair of RAC Region 3.
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Shana Lindsey is the Director of Research and Bridge Operations at the Utah Department of Transportation. She has been with UDOT for 16 years. Her responsibilities currently include the development of business strategies and management for UDOT’s Research & Development, and Bridge Management programs. Under Shana’s direction, the Research Division has received the 2006 AASHTO Presidential Award for its UTRAC (Utah Transportation Research Advisory Council) process.

Over the years, Shana has held a variety of leadership positions within UDOT, ranging from Maintenance Planning, Traffic Operations, and Region Operations Engineer. During this time she was instrumental in several large projects including the implementation of UDOT’s new Traffic Operations Center and management of operations functions during the 2002 Olympic Winter Games in Salt Lake City.

Shana received her BS in Civil Engineering from the University of Utah and is a licensed PE with the State of Utah.

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Sue Lodahl is the Director of Research Services for the Minnesota Department of Transportation. She has held this position for a year and a half, and has also held other positions within Mn/DOT including State Lighting Engineer and Maintenance Operations and Training Engineer. Sue is a graduate of the University of Minnesota with a bachelor’s degree in civil engineering and is a registered professional engineer in the State of Minnesota.

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Dave Lippert has been Acting Engineer of Materials and Physical Research for the Illinois Department of Transportation since March 2005. During his 22-year career with IDOT, he has held several engineering positions with responsibilities for research, structural properties, technical services, mixtures control, pavement technology and physical research. Prior to joining IDOT he was Assistant Superintendent of Highways for the Mason County Highway Department and carried out research and teaching duties at the University of Illinois at Urbana-Champaign. He is the author of numerous technical papers. He earned a Bachelor of Science degree in arts and sciences from Western Illinois University and both bachelor’s and master’s degrees in civil engineering from the University of Illinois at Urbana-Champaign.

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Richard Long is the Director of the Florida Department of Transportation (FDOT) Research Center. He is responsible for the identification, selection and reporting of the Departments $15 million/year research program and for the coordination of Florida’s research programs with federal agencies, the Transportation Research Board, universities and other research partners. He is a member of the AASHTO Standing Committee on Research; Vice Chair of the Research Advisory Committee; Past Chair Research Advisory Committee Region II; Member TRB Committee on the Conduct of Research; Panel member on NCHRP 20-36 “Highway Research and Technology - International Information Sharing”; Serves as Panel Chair on NCHRP 20-63 “Performance Measurement Tool Box and Reporting System for Research Programs and Projects”; and serves on numerous university advisory boards.
Wes Lum, P.E.

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Wes Lum is the National Liaison for the California Department of Transportation, Research and Innovation Division. His role is to develop partnerships with others interested in common interest transportation research. He has been employed by Caltrans for 26 years in various positions including: research, traffic operations, planning, and design. He also has experience with the Federal Highway Administration, a metropolitan planning organization and a city. He is a registered Civil Engineer in California and holds a BS and MS in Engineering from the University of California, Los Angeles, UCLA with a concentration in traffic operations. Wes is Chair of AASHTO Research Advisory Committee, Vice-Chair of the AASHTO Standing Committee on Research, and Chair of the TRB Research and Education Section.

Richard L. McReynolds, P.E.

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Richard L. (Dick) McReynolds is the Engineer of Research for the Kansas DOT. In this position, he directs the Agency’s Research activities and staff of twenty-five. He serves as Chairman of the Kansas DOT Research Technical Committee and is their Transportation Research Board (TRB) Representative. He is also a member of SCOR and TRB LIST Committee.

Dick has BS and MS degrees in Civil Engineering from Kansas State University. He has worked at KDOT for 36 years. Prior to becoming Engineer of Research in 1988, his experience was primarily in the geotechnical, pavement design and pavement management areas.

Laurie McGinnis

(Chair of TRB Conduct of Research Committee)
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Laurie McGinnis is the Associate Director at the University of Minnesota Center for Transportation Studies. She works closely with faculty and staff, funding organizations, and the Center’s advisory committees to coordinate research conducted by academic departments, deliver technical assistance and training activities, and oversee the development of information products and services that support the Center’s programs.

Prior to her work with the University, Laurie was a project manager and bridge designer at HNTB. She holds a BS degree in Civil Engineering from the University of Wisconsin, an MBA degree from the University of Minnesota, and is a registered professional engineer in Minnesota and Wisconsin.

Victor M. Mendez, P.E.

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Victor Mendez was appointed Director of the Arizona DOT on October 23, 2001. He served the department in a variety of other positions since he began his career there in 1985. As the Deputy Director since September 1999, he assisted the director on the implementation of policy and coordinated with each division to achieve the goals of the organization. Prior to that, he served as Deputy State Engineer in charge of the Valley Transportation Group, a position he held since 1997 and before that he was an Assistant State Engineer in charge of Statewide Project Management. Victor is a registered professional Civil Engineer and holds an MBA from Arizona State University and a BS in Civil Engineering from the University of Texas at El Paso.
Tommy E. Nantung, Ph.D., P.E.

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Tommy Nantung is the Section Manager of Pavement, Materials, and Accelerated Testing for the Indiana DOT Office of Research and Development. He has a BS in Civil Engineering from Parahyangan Catholic University in Indonesia, an MS in Construction Engineering from the University of Michigan and a PhD in Civil Engineering from Purdue University. Tommy is also a licensed engineer in Indiana.

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Larry Orcutt is the Research and Innovation Division Chief for Caltrans. Larry has also served as the Maintenance Division Chief, responsible for a budget of close to $1 billion and 6,000 employees. Larry has spent nine years in Caltrans Headquarters and 12 years in Districts. While at Headquarters, Larry has led the Department’s Long Life Pavement Team, and received the Governor’s Safety Award for leading and supporting the Department’s Employee Safety Initiatives.

He earned his Civil Engineering Degree from California State University, Sacramento and is a Registered Civil Engineer and an active member of the California Professional Chapter of the American Indian Science and Engineering Society (AISES).

Larry has also served on various AASHTO and TRB efforts and was recently selected to serve on the SRHP II Safety Technical Coordinating Committee that will focus on “Preventing or reducing the severity of highway crashes by understanding driver behavior.”

George Needham

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George Needham is Vice President for Member Services at OCLC Online Computer Library Center in Dublin, Ohio. George manages Members Council, WebJunction, and QuestionPoint at OCLC, and contributes to the blog “It’s All Good.” George has been a librarian for nearly thirty years, working in public and state libraries and in library-related nonprofit organizations. He holds MLS and BA degrees from the University at Buffalo, New York, and has taken additional courses at Fisher College of Business at The Ohio State University.

George’s lone brush with non-library fame was as a two-time winner on “Jeopardy!” in December 1994.

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Barry K. Partridge is director of the INDOT Research & Development program. He has a PhD. in Civil Engineering, specializing in environmental engineering, from Purdue University and is a licensed professional engineer in the state of Indiana. In his 30 years of experience in the transportation field, he has held numerous positions, served on various national and regional committees, and authored various research reports and publications.
Skip Paul was recently selected as the Director of the Louisiana Transportation Research Center (LTRC), having previously served as the Associate Director for Research since 1995. Skip has served the LA DOTD in a variety of other positions for the past 29 years such as Engineer-in-Training, Bituminous Research Engineer, and Materials Research Engineer.

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 TRB in a number of positions culminating as the Technical Division A Chair, responsible for over 3500 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.

Ernie Perry is currently an Organizational Performance Administrator at MoDOT where he directs activities to close performance gaps in the economic, finance, governmental and community relations, and social science related fields at MoDOT.

Ernie has been with MoDOT for 11 years, with the last 5 years in the research and organizational performance area. Ernie’s other work at MoDOT has included: work in the environmental justice and NEPA area; the establishment of a customer satisfaction survey process; working with the Missouri Department of Economic Development to better match transportation and development activities; and in developing ways to ensure that demographic and community based information is used in the Department’s planning and project development process.

Dale Peabody is a 1983 graduate of the University of Maine at Orono with a B.S. in Civil Engineering and has worked for Maine DOT for 23 years. For the last 13 years he has been involved with research and currently manages the department’s program. Although he still hasn’t determined what he wants to do when he grows up, he has decided that his current job is the best one at Maine DOT and is the envy of others.

Lisa Pogue is the director of technology transfer for the American Public Works Association, an international educational and professional association. Lisa directs the Local Technical Assistance Program (LTAP) Technology Transfer Clearinghouse (under contract with the Federal Highway Administration). Responsibilities include project management, communications, Web design, information management, and training and coaching. Before coming to APWA, she held the position of Community Relations Coordinator, Central Arkansas Library System, Little Rock, Arkansas. Lisa has earned an MA in Interpersonal and Organizational Communication from the University of Arkansas at Little Rock and a BA in Philosophy and Writing from Eckerd College in St. Petersburg, Florida.
John A. Ray, P.E.

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John A. Ray has a Bachelor of Science Degree in Civil Engineering from The Ohio State University and is a Registered Professional Engineer in the State of Ohio. He has been employed with the Ohio Department of Transportation for 20 years serving in various capacities, such as the Plan Review and Estimating Engineer and the Administrator of the Office of Project Coordination. For the past five years he has served as the Administrator of the Office of Aerial Engineering responsible for Central Office surveying, remote sensing, digital mapping, and LiDAR operations within ODOT.

Robert J. Reilly, P.E., Ph.D.

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Bob Reilly is Director of the Transportation Research Board’s Cooperative Research Programs Division which is responsible for managing the AASHTO-sponsors National Cooperative Highway Research Program, the Transit Cooperative Research Program sponsored by FTA, and the Airport Cooperative Research Program sponsored by FAA. He has worked in design, construction, and materials engineering in both government and the private sector and was an Assistant Professor of Civil Engineering at the University of Maryland. Bob is a registered professional engineer and a graduate of Manhattan College and holds M.S. and Ph.D. degrees from the University of Maryland. Since 1985, he has served as Secretary to AASHTO’s Standing Committee on Research.

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Ralph Robinson is the President of VII Consortium leading six Car Makers in the development and evaluation of VII (Vehicle Infrastructure Integration) technologies. He joined Ford Motor Company with a BS in Electrical Engineering from Lawrence Technological University forty years ago. He has been on the forefront of advanced research technologies in automotive powertrain, body, instrumentation and entertainment systems and systems architectures and holds several patents in microprocessor controller designs. He has innovated many of the early embedded vehicle networking architectures that are in common use today. He continues active service in industry organizations such as VIIC, AMI-C, SAE and the IDB Forum.

Ernie Scott, P.E.

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After receiving BS and MS degrees in Electrical Engineering from the University of Wyoming, Ernie Scott began a professional career in 1997 as an air pollution consultant for a private environmental service firm, Inter-Mountain Labs, Inc., located in Sheridan, Wyoming. In 2000 Ernie was designated Principal Investigator for a National Oceanic and Atmospheric Administration (NOAA) research grant project that was aimed at developing infrasound monitoring technology to automatically identify snow avalanche activity that threatens and affects transportation avenues. Successes achieved via the NOAA funded studies resulted in Ernie’s continued oversight of the project through Wyoming Department of Transportation and National Science Foundation funded studies.
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Sue Sillick has been involved in transportation research at the Montana Department of Transportation for the last 12 years and has been the Research Programs Manager for the last 8 of those 12 years. She currently serves on the AASHTO Research Advisory Committee and on the TRB committees on Conduct of Research, Information Services, and Library and Information Services for Transportation. She is also a project panel member for NCHRP 20-63, Performance Measures for Transportation Research. Sue holds a BS from West Virginia University and her MS from Iowa State University.

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Dr. Daniel S. Turner is a Professor of Civil Engineering at the University of Alabama, the founding Director of the University Transportation Center for Alabama, and the founding Director of the University Homeland Security Institute for Alabama. He has extensive experience in transportation education and research. Dan has taught a broad range of transportation courses at the university level for almost thirty years, has conducted more than $35 million in research and training projects, has 300 publications and has delivered approximately 500 presentations to technical and scholarly groups.

In addition to his position as President of the Council of University Transportation Centers, he is a TRB Section Chair, Group Executive Committee member and NCHRP Panel chair. He is currently a member of the Board of Direction for ABET, a past member of the Executive Committee of the Engineering Accreditation Commission, and a past President of the American Society of Civil Engineers.

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Robert E. Skinner, Jr., has been the Executive Director of the Transportation Research Board since 1994. Previously he directed TRB’s policy study activities. Prior to joining TRB in 1983, Mr. Skinner was Vice President of Alan M. Voorhees and Associates, a transportation consulting firm. He is a registered professional engineer and holds civil engineering degrees from the University of Virginia (BSCE) and the Massachusetts Institute of Technology (MSCE).

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Harold Von Quintus is Principal Engineer with Applied Research Associates, Inc. in their Round Rock, Texas office. He has been involved in pavement engineering, research, and materials testing for over 30 years, focusing primarily on hot mix asphalt and unbound pavement materials. He holds a B.S. degree in Civil Engineering from the University of Texas at Austin. Prior to joining the ARA staff, Harold was an owner of Brent Rauhut Engineering (BRE) Inc. He has worked with numerous state and federal agencies and educational institutions, including Texas A&M University/Texas Transportation Institute, University of Texas at Austin, and universities in Maryland, Arizona, Idaho, Florida, Pennsylvania, North Carolina, Wisconsin and Wyoming.
Directions to and Map of Hilton Columbus at Easton

From Port Columbus International Airport
Start out going west on International Gateway toward Sawyer Road. Turn right onto Stelzer Rd. Turn left onto Easton Way. Then follow * directions which follow.

From North
Take I-71 south to I-270 east to Easton exit (exit 33) – exit onto Easton Way. Remain on Easton Way through 2 traffic lights. Then follow *

From South
I-71 North to I-670 (to Port Columbus International Airport). Remain on I-670 to I-270 north (approximately 1 mile). Take Easton exit (exit 33) onto Easton Way. Remain on Easton Way through two lights. Then follow *

From East
Take I-70 west to I-270 north. Take Easton exit (exit 33) onto Easton Way. Remain on Easton Way through two lights. Then follow *

*Make a right on Chagrin Drive and another right into the hotel parking lot. (The Hilton is on the corner of Chagrin Drive and Easton Way.)

HILTON COLUMBUS AT EASTON - MAIN LEVEL

1 - REGENT LOBBY
2A - EASTON FOYER A
2B - EASTON FOYER B
2E - EASTON FOYER E
3 - MAGNOLIA ROOM
4 - LILAC ROOM
5 - REGENT 3
6 - MEETING SUITE 200
7 - MEETING SUITE 202
8 - NEW ALBANY BOARD ROOM
9 - COLUMBUS BOARD ROOM
10 - FRONT DESK
R - RESTROOMS
Easton Loop Trolley: Picks up in front of Bon Vie (Central Park Fountain in the North District) and Brio (Town Square in the South District). Runs in front of Bon Vie (Central Park Fountain in the North District) and Brio (Town Square in the South District). Runs every 15-20 minutes. Hours: M-Th, 11 a.m. – 8:30 p.m.; F & Sat, 11 a.m. – 9:30 p.m.; Sun, noon – 5:30 p.m.; F-Sat, 11 a.m. – 9:30 p.m.; Sun, noon – 5:30 p.m.
Directions to and from Hilton Columbus at Easton and COSI

From Hilton Columbus at Easton to COSI

1. Head south from Chagrin Dr - go 0.1 mi
2. Turn right at Townsfair Way - go 0.1 mi
3. Turn left at Laet Ln/Easton Square Place - go 0.1 mi
4. Turn left at Easton Way - go 0.5 mi
5. Bear right into the I-270 S. entry ramp to Wheeling - go 2.1 mi
6. Take the I-670 W (exit 35A) to Airport - go 6.2 mi
7. Take the US-23 S (exit 4B) to High St./Third St. - go 0.2 mi
8. Take the US-23 S. ramp - go 0.3 mi
9. Continue on N. 3rd St. - go 0.5 mi
10. Turn right at E. Broad St. - go 0.1 mi
11. Continue on W. Broad St. - go 0.4 mi

From COSI to Hilton Columbus at Easton

1. Head east from W. Broad St. - go 0.4 mi
2. Continue on E. Broad St. - go 0.6 mi
3. Turn left at Cleveland Ave. - go 0.5 mi
4. Bear right into the I-670 E. entry ramp - go 5.8 mi
5. Take the I-270 N. ramp to Cleveland/Gahanna - go 0.2 mi
6. Bear left onto the I-270 N. ramp to Cleveland - go 1.9 mi
7. Take exit 33 to Easton/Morse Rd. - go 0.5 mi
8. Turn left at Easton Way - go 0.6 mi
9. Turn right at Chagrin Dr. - go 0.1 mi
2006 Meeting Planning Committee
Mara Campbell, Missouri DOT
Monique Evans, Ohio DOT
Sandra Larson, Iowa DOT
Sue Lodahl, Minnesota DOT
Richard Long, Florida DOT
Wes Lum, CALTRANS

RAC Region 3
Pat Casey, CTC & Wisconsin DOT
David Lippert, Illinois DOT
Dick McReynolds, Kansas DOT
Tommy Nantung, Indiana DOT
Barry Partridge, Indiana DOT
Calvin Roberts, Michigan DOT
Mark Sandifer, FHWA

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Carol Culver
Phyllis Geer

Missouri DOT Support
Debra Brandwein
Don Davidson

Michigan DOT Support
André Clover

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Amy Starr

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Acknowledgements

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Vicky Fout
Jill Martindale
Todd Murray
Karen Pannell

Transportation Research Board
Chris Hedges
Linda Karson
Rick Pain
Bob Reilly

Federal Highway Administration
Ariam Asmerom
Debra Elston
Bill Zacagnino

2005 Meeting Planning Chairs
Moy Biswas, NC DOT
Skip Paul, LA DOT
<table>
<thead>
<tr>
<th>Exhibits</th>
</tr>
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<tbody>
<tr>
<td>* Battelle Center for Excellence</td>
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<td>* Cleveland State University (Work Zone Safety Center)</td>
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<tr>
<td>* Council of University Transportation Centers</td>
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<tr>
<td>* Federal Highway Administration (Corporate R&amp;T, Market Ready Priority Technologies, etc.)</td>
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<tr>
<td>* Federal Highway Administration (Pooled Fund Program)</td>
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<tr>
<td>* Iowa State University (Midwest Transportation Consortium &amp; Center for Transportation Research and Education)</td>
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<tr>
<td>* Michigan Technological University</td>
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<td>* Minnesota's Transportation Engineering &amp; Road Research Alliance</td>
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<td>* NCHRP 20-63: Performance Measures for Research Programs and Projects</td>
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<td>* Northwestern University (Infrastructure Technology Institute)</td>
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<td>* Ohio DOT Office of Research &amp; Development</td>
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The 2007 National AASHTO Research Advisory Committee meeting will be hosted by RAC Region 4 in the Seattle, Washington area. For information or to offer suggestions or volunteer, contact Leni Oman, WSDOT, at OmanL@wsdot.wa.gov or Rick Collins, TxDOT, at rcollins@dot.state.tx.us.