

NEWS



TRANSPORTATION RESEARCH BOARD

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For Immediate Release
News Advisory

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Pavement Management TRB 87th Annual Meeting Session Highlights January 13-17, 2008 – Washington, DC

Workshops, sessions, and committee meetings in this major topic area will provide a forum for discussion of research results and an exchange of lessons learned from experience. A broad range of topics of interest to transportation professionals in the area of pavement management will be covered. Among them are pavement management systems, rigid and flexible pavement design, pavement rehabilitation, pavement strength and deformation characteristics, pavement monitoring and evaluation, pavement surface properties and vehicle interaction, and full-scale and accelerated pavement testing.

More than 10,000 policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions are expected to attend the Transportation Research Board (TRB) 87th Annual Meeting, in Washington, DC, January 13-17, 2008. The meeting, held at the Marriott Wardman Park, Omni Shoreham, and Hilton Washington hotels, includes more than 3,000 presentations in 600 sessions, 85 workshops, and 400 TRB committee meetings covering all aspects of transportation.

The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange. Conducted within a setting that is objective, interdisciplinary, and multimodal, TRB facilitates the sharing of information on transportation practice and policy by researchers and practitioners; stimulates research and offers research management services that promote technical excellence; provides expert advice on transportation policy and programs; and disseminates research results broadly and encourages their implementation. A major focal point of TRB's activities, the Annual Meeting provides an opportunity for transportation professionals from all over the world to exchange information of common interest.

Organized in 1920, TRB is a division of the National Academies, which include the National Academy of Sciences, National Academy of Engineering, Institute of Medicine, and National Research Council. The nation turns to the National Academies for independent, objective advice on issues that affect people's lives worldwide.

THE NATIONAL ACADEMIES
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Highlighted Pavement Management Sessions

Workshop 159 - *Mechanistic-Empirical Pavement Design Guide* Workshop

This workshop will explore local calibration, materials characterization, and traffic and axle weight data and will feature a discussion by officials from at least two state departments of transportation on implementation issues associated with the *Mechanistic-Empirical Pavement Design Guide*.

Sessions 360 and 391 - Transportation Projects in Extreme Conditions

Designing, constructing, and maintaining transportation infrastructure in extreme conditions present unique and interesting challenges, from Alaskan permafrost to the highest bridge in the world to Bolivian vertical slopes. Presentations at this two-part session will provide an overview of diverse problems posed and solutions achieved at eight transportation projects in extreme and challenging conditions around the world.

Session 454 - Pavement Management Systems Success Stories from States and Local Agencies

Recent headlines of the Interstate-35W Minnesota bridge collapse serve as an important reminder of the delicate state of our highway infrastructure. An area of nearly equal importance is the maintenance and preservation of thousands of miles of U.S. roadway pavements. Pavement assets must be constructable from locally available materials, support increasing traffic loads, provide a safe traveling surface, allow for rapid and economical construction, and provide for long service life. This session is designed to highlight best practices and success stories of state and local agencies using pavement management systems to identify long-term pavement funding needs and achieve cost-effective pavement performance.

Session 602 - Influence of Roadway Surface Discontinuities on Safety

In 1984, a task group from the TRB Committee on Surface Properties–Vehicle Interaction completed *The Influence of Roadway Surface Discontinuities on Safety: A State-of-the-Art Report*. Many of the members of the original task group have remained active in the various areas of study and have joined together to draft an update to this nearly 25-year-old report, *State-of-the-Art Report II*. This session is designed to provide an overview of the new report. Issues associated with surface discontinuities to be examined during the session include the influence on safety of tire–pavement available friction, potholes and road surface roughness, water accumulations, and pavement edge drop-offs.

Session 738 - Successful Partnerships to Advance Highway Engineering: Accelerated Pavement Testing Pays Off

During the past 50 years, accelerated pavement testing (APT) technology has been behind significant advances and innovations in highway pavement design and construction. This success is typically the result of partnerships between highway agencies, universities, research institutes, and the private sector. Evidence indicates that these programs can produce significant returns on investment. This session will present important findings associated with APT that have contributed to substantial savings to highway agencies. The session will also focus on recent local and international partnership programs that have helped to advance APT.

All Pavement Management Sessions

| Sunday | | | |
|---------|---|-------|-------------------|
| Session | Session Title | Hotel | Time |
| 103 | Fundamentals of Pavement Deflection Analysis: Methods for Backcalculation with Application to Mechanistic Pavement Design | M | 8:30 AM–12:00 PM |
| 105 | Geosynthetics and Cost-Effective Pavement Preservation | M | 8:30 AM–12:00 PM |
| 110 | Validation of Advanced Flexible Pavement Modeling with Accelerated Pavement Testing Data | M | 8:30 AM–12:00 PM |
| 117 | Using a Pavement Management System to Locally Calibrate Models in Mechanistic-Empirical Pavement Design Guide | S | 8:30 AM–12:00 PM |
| 134 | ProVAL: Profile Viewing and Analysis Software | M | 8:30 AM–5:00 PM |
| 137 | How to Design and Build Quieter Pavements | H | 8:30 AM–5:00 PM |
| 140 | Long-Term Pavement Performance State Coordinators' Meeting | M | 9:30 AM–11:30 AM |
| 143 | Advanced Pavement Analysis Methods for Backcalculation and Mechanistic-Based Design | M | 1:30 PM–5:00 PM |
| 145 | Automated Survey of Pavement Distress | M | 1:30 PM–5:00 PM |
| 159 | Mechanistic-Empirical Pavement Design Guide Workshop | S | 1:30 PM–5:00 PM |
| 175 | Street-Running Bus Rapid Transit and Light-Rail Transit Operations | H | 1:30 PM–5:00 PM |
| Monday | | | |
| Session | Session Title | Hotel | Time |
| 214 | Accelerated Pavement Testing for Pavement Performance Model Calibration | S | 8:00 AM–9:45 AM |
| 218 | New Technologies in Pavement Management | S | 8:00 AM–9:45 AM |
| 264 | Innovative Techniques in Pavement Performance Prediction | M | 10:15 AM–12:00 PM |
| 266 | Long-Term Pavement Performance (LTPP): More Findings, More Products, More Tools | M | 10:15 AM–12:00 PM |
| 275 | Using Pavement Management Systems for Quality Control | S | 10:15 AM–12:00 PM |

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| 306 | Measurement and Analysis of Pavement Response Under Full-Scale and Accelerated Pavement Testing | S | 1:30 PM–3:15 PM |
| 330 | Structural Evaluation of Pavements: Testing and Data Interpretation | S | 2:30 PM–5:00 PM |
| 354 | Curling Effects in Concrete Pavements | S | 3:45 PM–5:30 PM |
| 360 | Transportation Projects in Extreme Conditions, Part 1 (Part 2, Session 391) | S | 3:45 PM–5:30 PM |
| 395 | Hydroplaning and Modeling of Skid Resistance | S | 7:30 PM–9:30 PM |
| 403 | Emerging Research: Presentations from Third Annual Interuniversity Symposium on Infrastructure Management | H | 7:30 PM–9:30 PM |

Tuesday

| Session | Session Title | Hotel | Time |
|----------------|--|--------------|-------------------|
| 425 | Flexible Pavement Performance and Measurement | S | 8:00 AM–9:45 AM |
| 426 | Precast Concrete Pavement Slabs for Pavement Rehabilitation: AASHTO Technology Implementation Group Focus Technology | S | 8:00 AM–9:45 AM |
| 443 | Cementitious Stabilization of Subgrade Soils | M | 9:30 AM–12:00 PM |
| 446 | Interlayer Systems to Mitigate Reflective Cracking | M | 9:30 AM–12:00 PM |
| 449 | Seasonal Effects on Low-Volume Roads | M | 9:30 AM–12:00 PM |
| 451 | Soil-Geosynthetics Interaction Mechanism | M | 9:30 AM–12:00 PM |
| 454 | Pavement Management Systems Success Stories from States and Local Agencies | S | 9:30 AM–12:00 PM |
| 456 | Asset Management: Modeling, Performance, and Application | H | 9:30 AM–12:00 PM |
| 474 | Flexible Pavement Design Modeling | S | 10:15 AM–12:00 PM |
| 504 | Pavement Monitoring | S | 1:30 PM–3:15 PM |
| 533 | Concrete Pavement Potpourri | S | 2:30 PM–5:00 PM |
| 534 | Flexible Pavements | S | 2:30 PM–5:00 PM |
| 535 | Texture, Friction Management, and Ride Quality | S | 2:30 PM–5:00 PM |
| 536 | Dwight David Eisenhower Transportation Fellowship Program Research Showcase, Part 3 (Part 1, Session 328; Part 2, Session 441) | H | 2:30 PM–5:00 PM |
| 573 | Pavement Evaluation | S | 3:45 PM–5:30 PM |
| 590 | Characterization and Performance of Pavement Drainage Layer | M | 7:30 PM–9:30 PM |
| 602 | Influence of Roadway Surface Discontinuities on Safety | S | 7:30 PM–9:30 PM |

Wednesday

| Session | Session Title | Hotel | Time |
|----------------|---|--------------|-------------------|
| 615 | Best Papers from TRB 9th International Conference on Low-Volume Roads, Part 1 (Part 2, Session 655) | M | 8:00 AM–9:45 AM |
| 616 | Characterization of Stabilized Base Materials for Mechanistic-Empirical Pavement Design | M | 8:00 AM–9:45 AM |
| 627 | Pavement Rehabilitation: Project Selection Techniques | S | 8:00 AM–9:45 AM |
| 655 | Best Papers from TRB 9th International Conference on Low-Volume Roads, Part 2 (Part 1, Session 615) | M | 10:15 AM–12:00 PM |
| 656 | Concrete Pavement Reconstruction Options: Flexibility That Lasts | M | 10:15 AM–12:00 PM |
| 663 | Recent Developments in Chemical, Mechanical, and Cementitious Stabilization | M | 10:15 AM–12:00 PM |
| 667 | Strength and Deformation of Pavements | S | 10:15 AM–12:00 PM |
| 669 | Truck Weight and Travel Data | S | 10:15 AM–12:00 PM |
| 685 | Material Properties and Applications of Pavement Joint and Crack Sealants | M | 2:30 PM–4:00 PM |
| 710 | Reclamation of Hot-Mix Asphalt Pavements | S | 2:30 PM–5:00 PM |
| 715 | Pavement Maintenance: Surface Treatments and Seals | M | 4:30 PM–6:00 PM |
| 738 | Successful Partnerships to Advance Highway Engineering: Accelerated Pavement Testing Pays Off | M | 7:30 PM–9:30 PM |
| 739 | Flexible Pavement Design and Traffic Influence | S | 7:30 PM–9:30 PM |

Thursday

| Session | Session Title | Hotel | Time |
|----------------|--|--------------|-------------------|
| 743 | Characterization of Detrimental Effects of Moisture and Frost on Pavements | M | 8:00 AM–9:45 AM |
| 749 | The Black and White of Pavement Selection: Case Histories and Best Practices, Part 1 (Part 2, Session 762) | M | 8:00 AM–9:45 AM |
| 762 | The Black and White of Pavement Selection: Case Histories and Best Practices, Part 2 (Part 1, Session 749) | M | 10:15 AM–12:00 PM |

Hotels: Marriott (M), Hilton (H), Shoreham (S)

Additional Sessions Information: <http://www.trb.org/am/ip/>