



# Upper Midwest Transportation Materials Summit

**November 3-4, 2010**

*Best Western Franklin Square Inn, 7th Floor  
Houghton, Michigan*

## Technical Program

### Wednesday, November 3

**6:00-7:30 PM Registration**

**7:00-9:00 PM Reception**

### Thursday, November 4

**7:00-8:00 AM Registration and Breakfast**

**8:00 AM Opening Comments & Introductions**

*Larry Sutter, Professor and Director, Michigan Tech Transportation Institute and the University Transportation Center for Materials in Sustainable Transportation Infrastructure*

**8:10 AM Welcome**

*Dave Reed, Vice President for Research, Michigan Technological University*

**8:15 AM Keynote Presentation**

*Michael Darter, University of Minnesota (8:15-8:50)  
Status of M-E PDG Implementation: Progress and Case Studies*

**8:50 AM Morning Sessions**

*Nick Vitillo, Rutgers State University (8:50-9:15)  
M-E PDG Implementation in New Jersey*

*Neeraj Buch, Michigan State University (9:15-9:40)*

*An Integrated Approach to Implementing the M-E PDG*

*Zhanping You, Michigan Tech (9:40-10:05)*

*The Preliminary Criteria for Dynamic Moduli of Michigan HMA:  
Preparing for M-E PDG*

**10:05 AM Break**

**10:20 AM Late Morning Sessions**

*Hussain Bahia, University of Wisconsin (10:20-10:45)  
Energy, Emissions, and Recycling: Opportunities for Making Asphalt Greener*

## Thursday, November 4 *continued*

**Tuncer Edil**, University of Wisconsin (10:45-11:10)  
*Experiences with Highway Design and Construction Using Recycled Materials*

**George Dewey**, Michigan Tech (11:10-11:35)  
*Determination of the Polish Resistance of Carbonate Aggregates*

**Stan Vitton**, Michigan Tech (11:35-12:00)  
*Dynamic Fracture of Concrete and Aggregate and Its Importance to Sustainable Materials*

**12:00-1:00 PM Lunch**

**12:40 PM Lunch Presentation**  
**Kirk Steudle**, Director, Michigan Department of Transportation

**1:00 PM Early Afternoon Sessions**  
**Norb Delatte**, Cleveland State University (1:00-1:25)  
*Internal Curing of Concrete and Transportation Applications*

**Haluk Aktan**, Western Michigan University (1:25-1:50)  
*Durability of Precast Concrete Component Joints*

**Elin Jensen**, Lawrence Technological University (1:50-2:15)  
*Durability Study of Concrete Bridge Deck*

**John Myers**, Missouri University of Science and Technology (2:15-2:40)  
*Rapid Set Concrete Work for Pavement and Deck Repair Applications*

**2:40 PM Break**

**2:55 PM Late Afternoon Sessions**  
**Lev Khazanovich**, University of Minnesota (2:55-3:20)  
*M-E PDG and Concrete Pavement Design*

**Michael Darter**, University of Minnesota (3:20-3:45)  
*Lessons Learned from the SHRP 2 Composite Pavement Project*

**Ben Krom**, Michigan Department of Transportation (3:45-4:10)  
*Performance Evaluation of Unbonded Concrete Overlays*

**Bill Buttlar**, University of Illinois (4:10-4:35)  
*New Tools for Achieving Durable, Well-Bonded Asphalt Overlays*

**4:35 PM Closing Remarks**

**4:45 PM Break**

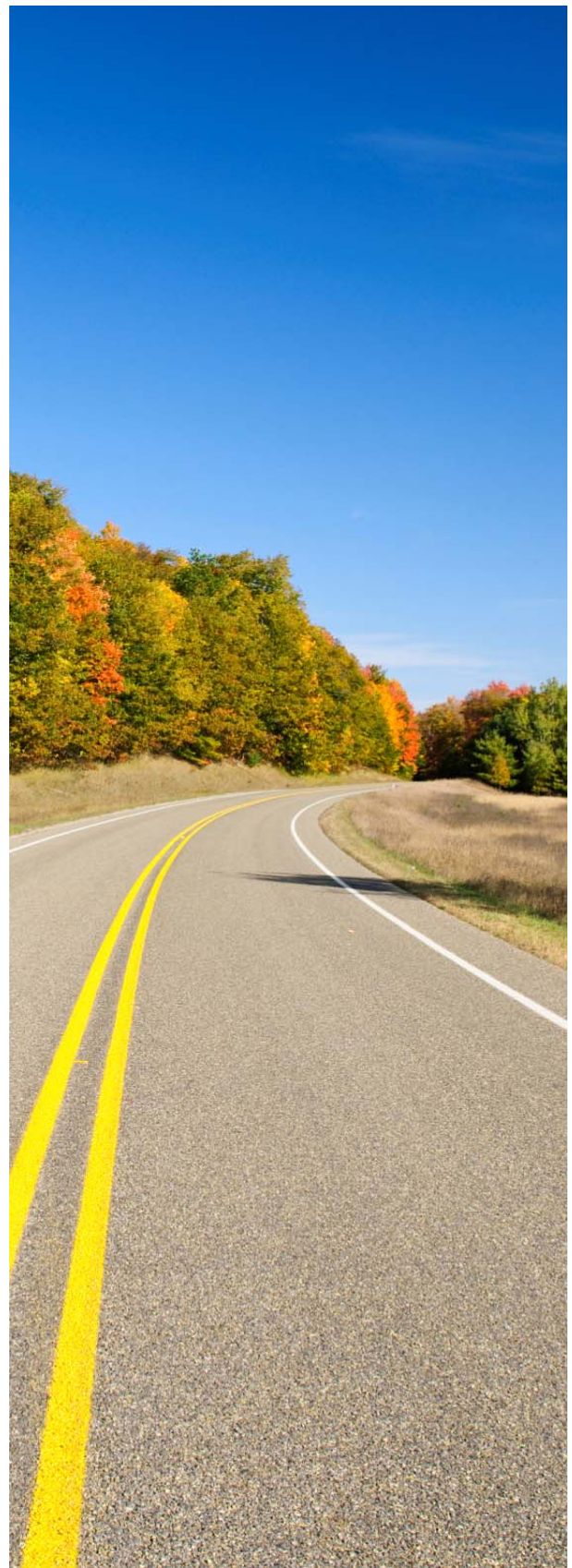
**5:30 PM Bus Departs Lobby for Dinner Event**

**10:00 PM Final Bus Returns to the Hotel**

## Friday, November 5

**7:00-8:00 AM Departing Breakfast**

**8:00 AM Laboratory Facility Tours (optional)**



*Partnering for the future of transportation.*