

17th Annual

TERRA **Pavement** **Conference**

February 14, 2013

*Continuing Education and Conference Center
St. Paul campus
University of Minnesota*



UNIVERSITY OF MINNESOTA



Conference Objective

This one-day conference will present sessions that look at current practices that implement new pavement research and technology. National and local trends and innovations will be examined to expand our understanding of pavement challenges and solutions.

Who Should Attend

City engineers, county engineers, public works officials, street superintendents, maintenance superintendents, managers, design engineers, consulting engineers, contractors, and others interested in pavement issues.

TERRA

The Transportation Engineering and Road Research Alliance (TERRA) is a dynamic partnership of government, industry, and academia that continuously advances innovations in road engineering and construction. TERRA's mission is "To develop, sustain and communicate a comprehensive program of research on pavement, materials, and related transportation engineering challenges including issues related to cold climates."

Registration and Fees

The early registration fee for the 17th Annual TERRA Pavement Conference (postmarked by January 31) is \$150. The late registration fee (postmarked after January 31) is \$175. Your registration fee includes instruction handout materials, lunch, and refreshment breaks. You are encouraged to register early to take advantage of the lower fee.

A refund, minus \$30, will be issued if you cancel by January 31. No refunds are available after this date. A full refund will be issued if the University of Minnesota cancels the conference.

Professional Development Hours(PDHs)

Attendees of the conference can earn up to 6.5 professional development hours.

Continuing Education Units (CEUs)

Participants who attend the entire conference will receive 0.65 CEUs signifying six hours of program participation. One (1.0) CEU is defined as 10 hours of participation in an organized continuing education program. A CEU certificate will be sent to each participant after the conference. The University of Minnesota Transcripts Office maintains a permanent record of CEUs earned.

Location

The conference will be held at the Continuing Education and Conference Center on the University of Minnesota's St. Paul campus.

Continuing Education and Conference Center

1890 Buford Avenue

St. Paul, MN 55108

www.cce.umn.edu/conferencecenter

Parking

Parking is available adjacent to the conference center; lot S104 for \$6.00 per day or in the fairgrounds lot across the street for \$4.00 per day. Parking is also available in Gortner Ramp (hourly rate).

Accommodations

A block of sleeping rooms has been reserved at the Radisson Hotel Roseville, 2540 North Cleveland Avenue, Roseville, MN 55113, 651-636-4567 or 1-800-333-3333, rate of \$91.00 plus tax for a single or double occupancy. In order to receive this special rate you must make your reservation by **January 30, 2013**, and identify yourself as a participant of the Pavement Conference. Reservations made after the specified deadline will be accepted on a space and rate available basis.

Complimentary shuttle service to the Continuing Education and Conference Center is available.

For Further Information Contact

Phone: 612-624-4754

E-mail: cceconf2@umn.edu

17th Annual **TERRA** Pavement Conference

February 14, 2013

PROGRAM

7:30 a.m. **Registration**

8:00 **Welcome and Plenary**

Rory Rhinesmith, Wisconsin Department of Transportation
Moderator: *Mark Maloney*, City of Shoreview

Gerald Rohrbach Award Presentation

Dave Janisch, Minnesota Department of Transportation

8:30-9:10 **Transportation and the Economy**

Toby Madden, Regional Economist, Federal Reserve Bank Minneapolis

This presentation will provide the 2013 regional economic outlook, including the transportation and construction industries. It will also discuss the real estate, manufacturing, and agricultural outlooks.

9:10 – 9:45

Recovering from the Northeastern Minnesota Floods

Patrick Huston, District One Operations Engineer, Minnesota Department of Transportation, Duluth

Major flooding struck northeastern Minnesota in June of 2012, causing over \$100 million of damage to the area including the transportation infrastructure. This presentation will discuss the challenges to and the lessons learned for recovering from a large-scale disaster.

9:45 – 10:15

Break

10:15-11:30

Concurrent Sessions

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| SESSION 1 Asphalt Pavements Moderator: <i>Steven Krebs</i> , Chief Materials Management Engineer, Wisconsin Department of Transportation | SESSION 2 Low Volume Roads Moderator: <i>Bruce Hasbargen</i> , County Engineer, Beltrami County |
| Case Studies of Intelligent Compaction in Minnesota <i>Erv Dukatz</i> , Mathy Construction, LaCrosse, Wisconsin | An Alternative to Both Paved and Unpaved Roads: Lightly Surfaced Roads <i>Chuck Jahren</i> , Department of Civil, Construction, and Environmental Engineering, Iowa State University, Ames, Iowa |
| Carbide Grinding Technology: Cost Effective Solutions for Pavement Maintenance Including Micro Milling, Longitudinal Joint Repair, and Bump Grinding <i>Ches Latham</i> , President, Keystone Engineering, North Avon, Indiana | Bituminous Stabilized Low Volume Road Options <i>Al Forsberg</i> , Blue Earth County Engineer |
| Sustainable Pavement Rehabilitation Using Thin Bonded Overlay Constructed with High Taconite and Recycled Asphalt Shingles Mix <i>Eshan V. Dave</i> , Department of Civil Engineering, University of Minnesota-Duluth | You'll Never Use the Phrase "Simple Mill and Overlay" Again <i>Matt Oman</i> , Braun Intertec; <i>Cory Slagle</i> , Washington County Public Works |

11:30-12:30 p.m. **Lunch**

12:30 – 2:00

Concurrent Sessions

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| SESSION 3 Concrete Pavements Moderator: <i>Dave Rettner</i> , American Engineering Testing | SESSION 4 Pavement Preservation Moderator: <i>Don Theisen</i> , Washington County Public Works |
| Joint Distress in Portland Cement Concrete Pavements: An Update on Causes and Cures <i>Larry Sutter</i> , Michigan Tech Transportation Institute, Michigan Technological University, Houghton, Michigan | Making Pavement Preservation Pay: Highlights from the National Pavement Preservation Conference <i>Larry Galehouse</i> , National Center for Pavement Preservation, Michigan State University, East Lansing, Michigan |
| Colored Concrete: Does it Deliver the Goods? <i>Tom Burnham</i> , Minnesota Department of Transportation | Research into New Surface Treatments <i>Jerry Geib</i> , Minnesota Department of Transportation |
| Design and Construction of Concrete Overlays: Innovative Methods to Simplify Design, Construct Under Traffic, Reduce Costs, and Improve Quality <i>Jerod Gross</i> , Snyder & Associates, Inc., Ankeny, Iowa | What Causes Stripping Under Chip Seals and What to Do About It <i>Tom Wood</i> , Minnesota Department of Transportation |

2:00-2:20

Break

2:20 – 4:00

Plenary Session

Moderator: *Maureen Jensen*, Minnesota Department of Transportation

The “Top Ten” for Designing, Constructing, and Maintaining Long-Life Pavements

The final two presentations will focus on the top considerations for providing long-life pavements that satisfy the demands of the driving public. This will include considerations for design, construction, rehabilitation, and maintenance. Specific recommendations considering today’s technology and the need to deliver a project with today’s design tools, available materials, and contractor capabilities will be discussed. Consideration will be given to managing the risk to the public as well as the contractor.

2:20 – 3:05

Concrete Pavements

Shiraz Tayabji, Furgro Consultants, Inc.

3:05 – 3:50

Asphalt Pavements

Jon Epps, Texas Transportation Institute, Texas A&M University

4:00

Adjourn



Gerald Rohrbach Award Winners

1998 - Roger C. Olson

1999 - Eugene L. Skok

2000 - George R. Cochran

2001 - Michael Sheehan

2002 - Gerald Rohrbach

2003 - Erland Lukanen

2004 - Art Bolland

2005 - Wayne Fingalson

2006 - Patrick Hughes

2007 - Duane Blank

2008 - Doug Schwartz

2009 - Mark Maloney

2010 - Mike Robinson

2011 - Rick West

2012 - Dave Janisch

Planning Committee

Jerry Geib, Minnesota Department of Transportation

Graig Gilbertson, Minnesota Department of Transportation

Lori Graven, College of Continuing Education, University of Minnesota

Jim Grothaus, Center for Transportation Studies, University of Minnesota

Maureen Jensen, Minnesota Department of Transportation

Lev Khazanovich, Department of Civil Engineering, University of Minnesota

Bill Lohr, Federal Highway Administration

Mark Maloney, Engineering Department, City of Shoreview

Stephanie Malinoff, TERRA

Mihai Marasteanu, Department of Civil Engineering, University of Minnesota

Joe MacPherson, Minnesota Department of Transportation

Clark Moe, Minnesota Department of Transportation

Roger Olson, Minnesota Department of Transportation

Matthew Oman, Braun Intertec

Mitch Rassmussen, Scott County

Thomas Ravn, Minnesota Department of Transportation

Gene Skok, Department of Civil Engineering, University of Minnesota

Linda Taylor, Minnesota Department of Transportation

Jill Thomas, Minnesota Asphalt Pavement Association (MAPA)

Curt Turgeon, Minnesota Department of Transportation

Teresa Washington, College of Continuing Education, University of Minnesota

Rick West, Ottertail County Highway Department

Matt Zeller, Concrete Paving Association of Minnesota (CPAM)

Sponsored by: **TERRA** Transportation Engineering and Road Research Alliance
Partnering for Roadway Innovation

In Cooperation with:

Center for Transportation Studies, University of Minnesota; Department of Civil Engineering, University of Minnesota; Local Road Research Board (LRRB); Minnesota City Engineers Association; Minnesota County Engineers Association; Minnesota Department of Transportation; Minnesota Local Technical Assistance Program (LTAP); Minnesota Public Works Association; Minnesota Street Superintendents Association.

Facilitated by:

COLLEGE OF CONTINUING EDUCATION
UNIVERSITY OF MINNESOTA

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PROGRAM

Please print or type

Event ID# 186842

Last Name First Name M.I.

Company/Institution

Title/Position

Street Address

City State Zip

E-mail

Daytime Telephone Fax Number

I do **not** want to be included on the registrant list for distribution to conference participants.

Payment:

Enclosed is \$150 in payment of the Pavement conference fee – (postmarked **by** January 31)

Enclosed is \$175 in payment of the Pavement conference fee – (postmarked **after** January 31)

Method of Payment

Enclosed is a check or money order payable to the University of Minnesota.

The fee will be paid by my employer; enclosed is a purchase order.

Charge my credit card (please check one)

VISA MasterCard American Express Discover

Card Number Expiration Date

Signature of cardholder

Name as it appears on card (please print)

Total amount to charge

Registrations cannot be processed unless accompanied by a check, money order, purchase order, or credit card information.

Registration:

Register Online:

www.terreroadalliance.org/events

Or Mail to:

CCE Registration
University of Minnesota
20 Ruttan Hall
1994 Buford Avenue
St. Paul, MN 55108-6069

Or Fax:

612-624-5359 (faxed registrations must be accompanied by a purchase order or credit card number).

If your check is returned because of insufficient funds, closed account, or because you have made a stop payment request, you will be charged a check-handling fee of \$20.

The information on this form is private data, used to identify and locate you, obtain payment, and enable instructors to better know their audience. Name, address, and payment method are mandatory. Information on this form may be shared with instructors and cosponsors.