

**ANNUAL MEETING OF THE
CITY ENGINEERS ASSOCIATION OF MINNESOTA**

January 30-February 1, 2013

Earle Brown Heritage Center, Brooklyn Center, Minnesota

Wednesday, January 30, 2013

7:30 a.m. Registration and Continental Breakfast **Carriage Hall Prefunction**

8:30 **Welcome** **Carriage Hall A**
Kent Exner, CEAM President, City of Hutchinson

8:40 **Objects In Mirror Are More Complicated Than They Appear**
Moderator: *Marc Culver*, City of Maple Grove
Tom Vanderbilt, Author, "Traffic: Why We Drive the Way We Do (and What It Says About Us)"

The talk will present findings from the New York Times bestselling book "Traffic: Why We Drive the Way We Do (and What It Says About Us)," including the dynamics of traffic flow, the social interactions of drivers, the perceptual illusions and cognitive biases that humans behind the wheel are prone to, the relationship between the built environment and our behavior, among other aspects of this complex, yet overlooked, everyday activity.

9:45 Refreshment Break **Carriage Hall Prefunction**

10:15 **Supply Chain Logistics – Current Landscape and Trends That Will Impact Your Practice**
Moderator: *Jean Keely*, City of Blaine
Richard Murphy, Murphy Warehouse Company

Supply Chain Logistics touches all of us. Its activities comprise 10% of our economy, yet many of us do not readily realize its importance and how energy trends alone will wake us all up to its place in our lives. This session will explore what the supply chain logistics landscape is today, where it's headed, and how it will impact our professional lives. Four major areas will be explored: transportation, global sourcing, domestic logistics and networks, and green logistics trends.

11:15 **CEAM Engineer of the Year Award**
CEAM Project of the Year Award
Moderator: *Bob Moberg*, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids

12:15 p.m. Lunch **Carriage Hall B**

1:15 **Concurrent Sessions**

1. **Social Media and Cities: Is Your City Social?** **Tack Room**
Moderator: *Dan Coyle*, Kimley-Horn and Associates, Inc.
Susan Schoepke, League of Minnesota Cities

Have you ever thought that a city's Facebook page might have something in common with a city park? It is important that we begin to think about our digital public spaces like our physical public spaces. In addition to one-way mass communication via websites and one-to-one communication via e-mail, social media has upped the ante to real-time, two-way mass public communication. Your city's online presence is an extension of your city but it doesn't mean anything unless people are using it. This session will help you

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understand social media in the municipal context, including the importance of having a social media presence, establishing a social media policy, using social media to grow awareness in your community, and using social media for community engagement. We will show examples of how other cities and public agencies have used social media. No previous experience with social media necessary.

2. Project Financing Tools **Carriage Hall A**

Moderator: *Chuck Ahl*, City of Maplewood

Mary Ippel, Briggs and Morgan; *Terri Heaton*, Springsted Incorporated; *Tom Denaway*, Springsted Incorporated

Engineers are continually involved in developing plans on how to finance proposed projects. This session will provide participants with an understanding of current bonding and financing methods, including bonding using special assessments, state aids, and reconstruction general obligation bonds. This team of professionals will also provide information on alternative methods of financing for projects such as tax increment financing, tax abatement, capital improvement bonds, temporary bonds, lease revenue, and grant anticipation bonds.

3. Innovative Stormwater Management to Address New Regulations: Three Case Studies **Captain's Room**

Moderator: *John Gorder*, City of Eagan

Ross Bintner, City of Edina; *Dan Edgerton*, Stantec Consulting Services, Inc.; *Kurt Leuthold*, Barr Engineering Company; *Mark Statz*, Stantec Consulting Services, Inc.

New, stricter regulations for stormwater treatment have led to the development of innovative practices for stormwater quality treatment and volume control. This session will provide case studies of three of these innovative practices: (1) the use of iron-enhanced sand filters to increase phosphorus removal, (2) reuse of collected stormwater from a downtown redevelopment for irrigation of ballfields, and (3) infiltration facilities to reduce the volume of urban stormwater runoff.

4. The One N and Three C's of Trenchless Water Main Rehabilitation **Harvest A**

Moderator: *Jim Studenski*, TKDA

Paul Pasko, SEH, Inc.; *Mitch Hoeft*, City of Golden Valley; *Steve Thoms*, City of Red Wing

Non-invasive condition assessment, cooperative agreements between multiple owners, cured-in-place water main lining, and competitive bidding. Learn how to use the latest tools to evaluate your system in service, how to program timely and efficient improvements-like a pavement management program for your water main system, and how to effectively combine work from multiple cities into one project to rehabilitate your water main with the most competitive pricing.

5. Forgotten for Too Long - Preventative Maintenance Strategies for Trails **Harvest BC**

Moderator: *Will Manchester*, City of Minnetonka

Stewart Crosby, SRF Consulting Group, Inc.; *Jerry Geib*, Minnesota Department of Transportation; *Eric Nelson*, Three Rivers Park District

The MN Local Road Research Board teamed with the MnDOT Office of Materials and Road Research, Three Rivers Park District and host of other agencies in a quest to find ways to focus preventative maintenance strategies specifically to trails and low volume pavements. This panel will discuss products and techniques specific to trail pavements, approaches and challenges they faced, as well as planning, scheduling and application recommendations.

2:30 Refreshment Break

Carriage Hall Prefunction

6. Innovative Management Tools - Asset Management, GIS and Tablets/Smart Phones**Harvest A**Moderator: *Steve Lillehaug*, City of Brooklyn Center

Information at your digital fingertips. This session will provide overviews of four innovative technologies being used by local entities to increase productivity by bringing asset management and mapping information directly to and from the field via laptops, digital tablets and smart phones.

Using Cloud-Based Software for Asset Management*David Berkowitz*, City of Andover; *Blaine Hackett*, Flat Rock Geographics

This presentation will show how the City of Andover has implemented a “cloud-based”, asset management solution to reduce costs, increase staff access and streamline their asset management software.

Using GIS as a Stormwater Management and Pond Inventory Tool*Derek Asche*, City of Plymouth

This presentation will show how Plymouth has recently transitioned their water resource management information including TMDL’s, Wetland Delineations, Wetland Replacement Plans, wetlands, wetland mitigation, water quality ponding, NPDES permit data and other water resource information into their GIS management system.

Innovative Asset Management for I&I Using GIS Mapping, Video Televising, and Maintenance Record*Becky Blue*, SEH Technology Solutions

Sanitary sewer asset management technology for managers and field staff that that brings together and allows immediate access to asset inventory (map on mobile device) in the field (just click and get information), video televising, inspections, maintenance records and other sewer information in a web-based application for immediate access and use in the field that to help trouble shoot sewer issues quickly.

Portable Device Applications using GIS System Management Data*John Shain*, Bolton & Menk, Inc.

This presentation will provide a summary of GIS management systems used by many cities and new and innovative ways to carry this information with you at all times through portable devices such as smart phones, tablet computers, and other devices.

7. Concrete Matters: Overlays, Specs & Design**Carriage Hall A**Moderator: *Kent Exner*, City of Hutchinson*Matt Zeller*, Concrete Paving Association of Minnesota; *April Stier*, Portland Cement Association – North Central

The utilization of concrete overlays as a pavement rehabilitation method on urban roadways has shown to be feasible and cost-effective. Thus, we will examine some successful projects and review the potential application of this approach to existing pavement sections. Also, an overview of the recently published Minnesota Concrete Flatwork Specifications for Local Government Agencies will be provided. Lastly, the use of American Concrete Pavement Association's StreetPave program for concrete pavement thickness design will be examined.

8. **Updated Precipitation Frequency Estimates for Minnesota** **Captain's Room**
 Moderator: *Alan Rindels*, Minnesota Department of Transportation
Sanja Perica, National Oceanic and Atmospheric Administration; *Steve Klein*, Barr Engineering

NOAA Atlas 14 will soon replace the rainfall atlas known as TP-40 that we currently use for designs and regulations. Atlas 14 incorporates 50-years of rainfall data collected since TP-40 was published. Many anticipate that post rainfall amounts for key storms to be greater than those shown in TP-40. This presentation will include:

- How Atlas 14 was developed.
- The percent change in rainfall amounts for key design storms for various regions in Minnesota.
- Implications for local jurisdictions, state and federal agencies once Atlas 14 is published.

9. **Intelligent Transportation Systems (ITS) for Local Agencies** **Harvest BC**
 Moderator: *Randy Newton*, City of Eden Prairie
Matt Gjersvik, ITS Minnesota/Econolite; *Janelle Borgen*, WSB & Associates, Inc.; *Amy Marohn*, City of Bloomington

Learn about ITS initiatives at the local agency level and about locally available resources regarding new technologies as they emerge. Topics will include Rapid Rectangular Flashing Beacon (RRFB), dynamic flashing stop signs, and pavement pedestrian flashing beacons, among others.

10. **Marketing Civil Engineering to Future Generations** **Tack Room**
 Moderator: *Russ Matthys*, City of Eagan
Colleen Feller, Success Beyond the Classroom; *Kay Huhner*, Eastview High School; *Jill Measells*, The Works;
Anna Munson, Black and Veatch; *Pam Wurster*, Girl Scouts

What experiences drew you into the exciting world of engineering? Were you a curious child that had to take things apart to see how they worked? Do you still like playing with Lego building blocks or Tinkertoys? Today there are a variety of activities and clubs that expose children of various ages to many different aspects of engineering. In this session, we'll present four fun programs that provide opportunities for kids to explore the field of engineering and think about future engineering careers, and let you know how you can help spark a young person's interest in the engineering field.

4:15 Reception **Carriage Hall B**

Thursday, January 31, 2013

7:00 a.m. Past Presidents' Breakfast **Loft**

7:30 Continental Breakfast **Carriage Hall Prefunction**

8:00 **Welcome** **Carriage Hall A**
Joe Rhein, Co-Chair, CEAM Conference Planning Committee, Bolton & Menk, Inc.

8:05 **Accepting Change for the Better – Pavement Rehabilitation and Preventative Maintenance**
 Moderator: *Will Manchester*, City of Minnetonka
Thomas Woods, Office of Materials and Road Research, Minnesota Department of Transportation
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Are you reluctant to try something new? Well what if it could extend the life of your pavement substantially and save significant dollars with just a few minor changes to what you've always done. This session will

focus on new techniques to extend the life of your pavement by conveying the right approach at the right time, as well as transform existing techniques into cost saving solutions.

An array of topics will cover pavement applications and products to enhance chip and fog seal practices, determine micro surfacing treatments and prevent cracking and deterioration, while continuing to manage the pressures of user expectations.

9:00 **Needs Study Task Force – Software Update**

Rick Kjonaas, State Aid for Local Transportation, Minnesota Department of Transportation

9:10 **State and Transportation Funding Outlook**

Moderator: *Chuck Ahl*, City of Maplewood

Serge Phillips, Minnesota Department of Transportation; *Tracy Hatch*, Minnesota Department of Transportation; *John Wilson*, Minnesota Department of Transportation

This session will provide an update on the outlook for transportation funding in Minnesota as well as on the federal level. Tracy Hatch, CFO at MnDOT, will present the current forecast on transportation funds. John Wilson, MnDOT's Economist, will present their 20-year funding forecast for Minnesota Transportation that details the challenges transportation will face during this time. On a federal level, MnDOT representative, Serge Phillips, will present information on MAP-21 and the impacts to Minnesota of this legislation; and, insight into the prospects for a new federal transportation bill, once MAP-21 expires.

10:00 Refreshment Break

Carriage Hall Prefunction

10:15 **Cities Reacting to Financial Realities**

Carriage Hall A

Moderator: *Michael Thompson*, City of Maplewood

Deb Bloom, City of Roseville; *Bret Weiss*, WSB & Associates, Inc.

Hear about Roseville's unique approach to shared services. A number of Joint Powers Agreements with neighboring cities provide for flexibility and cost savings. What are the advantages and disadvantages? How has Roseville benefited during the tough economic environment? Also hear how cities benefit from rightsizing projects and a team, along with targeted infrastructure spending. How can innovative technologies factor into the benefit equation?

11:15 **LRRB Update - Jeopardy Style**

Moderator: *Jeff Hulsether*, City of Brainerd

Mike Marti, SRF Consulting Group, Inc.; *Renae Kuehl*, SRF Consulting Group, Inc.; *Jim Grothaus*, Center for Transportation Studies, University of Minnesota

LRRB/RIC projects related to ADA Transition Plans, Complete Streets, and other subjects provide many of the answers, but the answers have to be in the form of a question.

12:00 p.m. Lunch

Carriage Hall B

1:00 **Central Corridor Project Update**

Carriage Hall A

Moderator: *John Maczko*, City of Saint Paul

Dan Soler, Central Corridor Project Office; *Don Henry*, Walsh Construction; *Paul St. Martin*, Saint Paul Public Works; *Christopher Ferguson*, Business Resource Council

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The construction of the light rail line (the green line) connecting Minneapolis to Saint Paul is one of the largest public construction projects undertaken in the State of Minnesota. This session will focus on lessons

learned both positive and "true learning experiences" from the perspectives of the Project owner (Met Council), the Contractor, the City and the business community.

- 2:15 **Legal Issues for Civil Engineers**
Moderator: *Jack Griffin*, FOCUS Engineering, Inc.
Jeffrey Coleman, Coleman Hull and van Vliet
This session will address several legal issues we face as engineers in our day to day work and on public infrastructure projects. Topics will include Risk Management in construction documents; personal liability in public duty; public immunity; and approaches and best practices with Liquidated Damages.
- 3:15 Refreshment Break **Carriage Hall Prefunction**
- 3:45 **Legislative Update** **Carriage Hall A**
Moderator: *Dave Sonnenberg*, Stantec
Anne Finn, League of Minnesota Cities; *Margaret Donahoe*, Transportation Alliance; *Todd Olson*, Metro Cities

Our legislative panel will provide insight into the legislative issues that affect city engineers, predict what we might expect during the 2013 session, and discuss how we can be most effective in influencing legislation.

- 4:30 Reception **Carriage Hall B**

Friday, February 1, 2013

- 7:30 a.m. Continental Breakfast **Carriage Hall Prefunction**
- 8:00 **Welcome** **Carriage Hall A**
Bob Moberg, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids
- 8:10 **Minnesota Department of Transportation Commissioner's Update**
Moderator: *Bob Moberg*, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids
Charlie Zelle, Commissioner, Minnesota Department of Transportation
- 8:40 **Minnesota Department of Transportation State Aid Engineer's Update**
Moderator: *Bob Moberg*, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids
Julie Skallman, State Aid for Local Transportation, Minnesota Department of Transportation
- 8:50 **Minnesota Department of Transportation Potpourri**
Moderator: *Rick Kjonaas*, State Aid for Local Transportation, Minnesota Department of Transportation
- Jurisdiction Study**, *Shiloh Wahl*, Minnesota Department of Transportation
 - Materials Issues**, *Jerry Geib*, Minnesota Department of Transportation
 - Audit Issues from 2012**, *Merry Daher*, Minnesota Department of Transportation
 - Funding Updates**, *Mark Gieseke*, Minnesota Department of Transportation
 - Miscellaneous Issues (Traffic Counting)**, *Rick Kjonaas*, Minnesota Department of Transportation
- 9:30 **Minnesota Pollution Control Agency Commissioner's Update**
Moderator: *Bob Moberg*, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids
John Linc Stine, Commissioner, Minnesota Pollution Control Agency
- 10:00 **Minnesota Department of Health Update**
Moderator: *Bob Moberg*, Co-Chair, CEAM Conference Planning Committee, City of Coon Rapids

Karla Peterson, Minnesota Department of Health

10:30	Refreshment Break	Carriage Hall Prefunction
10:45	CEAM Business Meeting	Carriage Hall A
12:00 p.m.	Lunch	Carriage Hall B
1:00	Adjourn	
1:00	Special Municipal Screening Board Meeting	Carriage Hall A

The Municipal Screening Board will be meeting to review the status of the Needs Study Task Force's efforts and provide guidance to MnDOT as changes to the State Aid Needs system are administered and the new software program is implemented. Please note that all current Screening Board members and regular attendees will be formally invited to this meeting. Also, any conference attendees interested in this topic are encouraged and welcome to observe the meeting.

2013 City Engineers Conference Planning Committee

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Joseph Rhein, Co-Chair, Bolton & Menk, Inc.

Chuck Ahl, City of Maplewood

Kevin Bittner, Bolton & Menk, Inc.

Todd Blank, Short Elliot Hendrickson, Inc.

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