

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

January 25-27, 2012

Earle Brown Heritage Center, Brooklyn Center, Minnesota

Wednesday, January 25, 2012

8:00 a.m. Registration and Continental Breakfast

Carriage Hall Prefunction

9:00 **Welcome**

Carriage Hall A

Jean Keely, President, CEAM, and City of Blaine

9:10 **Engineering The Future: A Call To Action**

Moderator: *Beth Engum*, Kimley-Horn and Associates

Eric Kaler, President, University of Minnesota

As stewards of the public infrastructure, we ponder its future and question its ability to continue to support the quality of life we enjoy. Often our focus is on the technical and financial challenges of the utility and transportation systems. But what about the size and the quality of the future pool of engineers, our replacements?

The U.S. ranks 48th in the world in the quality of math and science education. 2010 Minnesota test results show that less than 49 percent of our students scored proficient on the 11th grade math test, with one demographic only scoring 13 percent proficiency. Clearly we are failing in our obligation to educate our future leaders.

Fellow engineer, University of Minnesota alumnus and new President, Eric Kaler, is concerned about this crisis and the implications for our nation and state. He is passionate about developing partnerships between the public, education and business communities. He is excited to help us discover our role in making sure the future of our public infrastructure is in good hands.

10:10 **Refreshment Break**

10:30 **Minnesota Go – Where Will Minnesota Be in 50 Years?**

Moderator: *Chuck Ahl*, City of Maplewood

Mark Nelson, Multimodal Planning, Minnesota Department of Transportation

MnDOT launched the Minnesota GO visioning process to better align the transportation system with what Minnesotans expect for their quality of life, economy, and natural environment. This is a vision for all forms of transportation, and ownership of the vision is a shared responsibility.

11:30 **CEAM Engineer of the Year Award**

CEAM Project of the Year Award

Moderator: *Kent Exner*, City of Hutchinson

12:15 p.m. **Lunch**

Carriage Hall B

Concurrent Sessions

- 1. LRRB: Porous Pavement – How Is it Working?** **Carriage Hall A**
 Moderator: *Matt Hansen*, SRF Consulting Group, Inc.
Mark Maloney, City of Shoreview; *Scott Anderson and Steve Segar*, City of Bloomington

Porous pavements have been used in Shoreview and Bloomington; two years later, learn about this innovation, its history, construction, and observations about their performance.
- 2. Stormwater – TMDL Implementation** **Captain's Room**
 Moderator: *Bob Moberg*, City of Plymouth
Kristin Asher, City of Richfield; *Clifton Aichinger*, Ramsey-Washington Metro Watershed; *Greg Wilson*, Barr Engineering and Bassett Creek Water Management Commission

This session will consist of a panel discussion regarding various TMDL implementation programs and strategies used by cities across the metro area.
- 3. How to Succeed with Your Road Diet and Lose a Lane; 4-Lane to 3-Lane Conversions** **Harvest A Room**
 Moderator: *Tom Mathisen*, City of Crystal
Bob Byers and Eric Drager, Hennepin County Transportation Department; *Bryan Nemeth*, Bolton & Menk, Inc.; *Monica Beeman*, City Saint Paul

There has been much interest recently in complete streets and traffic calming. One technique, often referred to as "road diets", consists of reducing the number of traffic lanes, typically from 4 lanes to 3 lanes. Many jurisdictions throughout the metro area have used this technique with mostly positive results although there have been some challenges (who said diets were easy anyway?). This session will cover several before/after experiences in the metro area including some of the difficulties and challenges with implementation.
- 4. Minnesota 2050: Tools for Infrastructure Education** **Tack Room**
 Moderator: *Jim Studenski*, TKDA
Dan Gage, MacQueen Equipment, Inc.; *Patti Craddock*, SEH; *Tom Eggum*, TKDA

MN2050 intends to educate the public about the benefits of investing adequately in Minnesota public infrastructure. While the overall audience is Minnesota citizens (aka VOTERS), we recognize that most present citizen-voters, and decision-makers (and most of us too) will be in Valhalla by 2050....So the immediate focus will be on the younger folks who will have to live with decayed facilities if we don't change our priorities.
- 5. Infrastructure Asset Management – You Can't Afford Not to Do It** **Harvest BC Room**
 Moderator: *Russ Matthys*, City of Eagan
Steve Albrecht, City of Burnsville; *Jim Engfer*, Stantec

Current economic conditions are forcing cities into wide-ranging budget cuts including reductions in infrastructure operations and maintenance funding, as well as staffing. Cities are also facing unfunded mandates, such as MS4 (Municipal Separate Storm Sewer System) permit requirements, ADA (Americans with Disabilities Act) compliance, and sign retroreflectivity requirements. In addition, the expectations of cities' customers (residents, businesses, contractors, etc.) for readily accessible, accurate, convenient information are ever increasing. Well-organized management of the public infrastructure is needed now more than ever to make informed, cost-effective decisions while ensuring proper maintenance and investment in City assets. Hear ideas regarding processes and practices to develop and implement an efficient and practical asset management program to meet your needs.

2:30 Refreshment Break

Carriage Hall Prefunction

3:00 **Concurrent Sessions**

6. **CSAH 14 Design/Build Project - Lessons Learned in a Local Application**

Carriage Hall A

Moderator: *Jay Kennedy*, WSB & Associates, Inc.
Charles Cadenhead, Anoka County

The Anoka County CSAH 14 project is the first locally-led design/build project in Minnesota. The use of design/build for the project resulted in a number of benefits, and also presented a number of challenges. Members of the project team will provide an overview of the benefits and lessons learned, and discuss other applications for design/build at a local level.

7. **The Public Land Survey in Minnesota; Historical Data Having Continuing Relevance**

Captain's Room

Moderator: *Jay Krafthefer*, Minnesota Department of Transportation

A cadre of deputy surveyors, employed by the federal government, divided the land surface of Minnesota into a hierarchy of rectangles between 1847 and 1908. Providing the first land boundaries, these surveys allowed individuals, corporations, and the State of Minnesota to acquire title to land from the United States. The surveys continue to have relevance since state law requires county surveyors to maintain the monuments set in the ground by the deputies during their work. There is a wealth of data concerning these surveys as recent work has revealed.

An Overview of the Public Land Surveying Process and the Records

Rod Squires, Department of Geography, University of Minnesota

Maintaining Corner Monuments in Minneapolis; Research and Re-Monumentation

Bill Brown, Hennepin County

8. **Energy Conservation and Transforming a Typical Street Into a "Living Street"**

Harvest A Room

Moderator: *Michael Thompson*, City of Maplewood
Jennifer Lewis, Maplewood Mall; *Fred Rozumalski*, Barr Engineering Co.

Reducing energy costs and becoming a leading steward of the environment is a goal of the Maplewood Mall, who was selected as one of fourteen commercial buildings for the first ever national energy efficiency contest sponsored by the EPA. Find out the techniques and results of the Mall's approach in becoming more energy efficient. Also, Maplewood Mall partnered with the Ramsey-Washington Metro Watershed District to lead a sustainability approach to the Mall's exterior, which includes many concepts of Living Streets. Barr Engineering recently developed a Living Streets policy for a local community in order to help transform typical streets into "Living Streets" with an active living and sustainability focus (Living Street = Complete + Green). Discover the components and benefits of a "Living Street."

9. **How Do Cities Get Their Piece of the Pie - Legacy Funds**

Tack Room

Moderator: *Steve Klein*, Barr Engineering
Steve Woods, Minnesota Board of Water and Soil Resources; *Traci Vibo*, Department of Natural Resources;
Bill Dunn, Minnesota Pollution Control Agency; *Jeff Freeman*, Minnesota Public Facilities Authority

Legacy Funds from the 3/8¢ sales tax we all pay in Minnesota are available to cities. Representatives of the 4 State agencies (in charge of disseminating Legacy funds through grants and low interest loans) will describe what projects and activities their funds can be used for and how cities can apply for them. Agencies represented include BWSR, MPCA, MnDNR and MN Public Facilities Authority.

10. **Mill and Overlays – Strategies and Solutions for Cities**

Harvest BC Room

Moderator: *Rod Rue*, City of Eden Prairie

David Rettner, American Engineering Testing, Inc.; *Thomas Wood*, Office of Materials and Road Research, Minnesota Department of Transportation; *Steve Bot*, City of St. Michael

Our panel of experts will discuss ways to ensure the right solution is chosen for the right condition as they convey ways to prevent cracking, create efficient cost saving solutions, and review the latest technology and strategies currently used in mill and overlay projects.

4:15 **Reception** **Carriage Hall Prefunction**

Thursday, January 26, 2012

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 Planning Committee, Bolton & Menk, Inc.

8:05 **Foresight: The Front End of Innovation**
Moderator: *Kent Exner*, City of Hutchinson
Garry Golden, Futurist

The near future may bring some of the most significant changes to the field of engineering and infrastructure for communities since the launch of the nation-wide interstate system. Garry Golden is a professionally trained futurist who will offer a look at the future of infrastructure for energy, mobility and communication that could enable new communities to emerge across Minnesota, the Upper Midwest and World. We will look at how social change, technological trends and business models will lead to both challenges and opportunities for engineers in the years ahead.

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

10:15 **ADA Transition Plan: What You NEED to Know Now** **Carriage Hall A**
Moderator: *Marc Culver*, City of Maple Grove
Lynnette Geschwind, Minnesota Department of Transportation; *Pete Lemke*, Hennepin County; *Mark Ray and Jeff Oliver*, City of Golden Valley

Learn about what your agency should have in place to document your agency's intent to meet the requirements of the Americans with Disabilities Act. This session will introduce the requirements of a transition plan and give you feedback from agencies that have adopted an official transition plan.

11:15 **Local Road Research Board (LRRB)**
Moderator: *Jeff Hulsether*, City of Brainerd
Lisa Goddard and Renae Kuehl, SRF Consulting, Inc.; *Matt Zeller*, Concrete Paving Association of Minnesota

This session will provide a brief overview of 2 completed projects, those being Best Practices for Stormwater Management and Pavement Preservation for Recreational Trails. The session will also touch on Local Concrete Pavement Rehabilitation Guidelines and a new spec for concrete in local road applications.

12:00 p.m. **Lunch** **Carriage Hall B**

1:00 **Legal Issues in City Engineering** **Carriage Hall A**
Moderator: *Jon Gorder*, City of Eagan
Speakers: *Bob Bauer*, Eagan City Attorney

Legal entanglements and liability surround us in everything that we do as City Engineers. This course will be designed to include current legal topics that affect the work that we do, and offer suggestions on how to best protect the City's interest from a legal and liability perspective.

2:15 **Professional Ethics in Professional Practice: The Goal is a Merger**
Moderator: *Jeff Hulsether*, City of Brainerd
Kristine Kubes, Kubes Law Office

Ethical professional dilemmas can take many forms, especially in a tough global economy. In this session, attendees will learn about the applicable ethical rules and statutes governing professional practice for Minnesota engineers, learn how to strengthen their practice by identifying and avoiding areas of potential ethical conflict, and learn from real case examples of ethical violations.

3:15 **Refreshment Break** **Carriage Hall Prefunction**

3:45 **Legislative Update** **Carriage Hall A**
Moderator: *Dave Sonnenberg*, Stanley Consultants, Inc.
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 2012 Session, and discuss how we can be most effective in influencing legislation.

4:30 **Reception** **Carriage Hall Prefunction**

Friday, January 27, 2012

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

8:00 **Welcome** **Carriage Hall A**
Kent Exner, Co-Chair, CEAM Planning Committee, City of Hutchinson

8:10 **Minnesota Department of Transportation Commissioner's Update**
Moderator: *Kent Exner*, Co-Chair, CEAM Planning Committee, City of Hutchinson
Tom Sorel, Commissioner of Transportation, Minnesota Department of Transportation

Hear how Commissioner Sorel is positioning MnDOT to proactively move toward the 50 year vision for transportation developed in the Minnesota GO effort.

8:40 **Minnesota Department of Transportation State Aid Engineer's Update**
Moderator: *Kent Exner*, Co-Chair, CEAM Planning Committee, City of Hutchinson
Julie Skallman, State Aid for Local Transportation, Minnesota Department of Transportation

City engineers, whether they are on staff or consultants, play a key role in the transportation system of the state. How can we all work together in these changing times?

8:50 **Minnesota Department of Transportation Potpourri** **Carriage Hall A**
Moderator: *Julie Skallman*, State Aid, Minnesota Department of Transportation

Roundabouts, *Mark Vizecky*, Minnesota Department of Transportation
Flashing Yellow Arrows, *Sue Zarling*, Minnesota Department of Transportation
Contaminated Findings, *Merry Daher*, State Aid, Minnesota Department of Transportation
Audit Findings, *Elisa Bottos*, State Aid, Minnesota Department of Transportation
Schedule of Materials Control for LV State Aid Projects, *Joe MacPherson*, Minnesota Department of Transportation

A collection of hot topics that are of interest to city engineers. You will hear short updates on several items and will leave the session knowing who to contact for more information on items that are of particular interest.

9:45 **Minnesota Pollution Control Agency Commissioner's Update**
Moderator: *Steve Klein*, Barr Engineering
Paul Aasen, Commissioner, Minnesota Pollution Control Agency

10:15 **Refreshment Break** **Carriage Hall Prefunction**

10:45 **CEAM Business Meeting**

12:00 p.m. **Lunch** **Carriage Hall B**

1:00 **Adjourn**

1:00 **Special Municipal Screening Board Meeting**

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 associated Needs software program are initiated. Please note that all current Screening Board members and normal attendees will be formally asked to participate in this meeting. Otherwise, any Conference attendees interested in this topic are welcome to observe the meeting.