

The City Engineers Association of Minnesota

Annual Meeting

January 29–31, 2020

Earle Brown Heritage Center
Brooklyn Center, Minnesota

ceam.org

Sponsors:

City Engineers Association of Minnesota
Minnesota Department of Transportation
League of Minnesota Cities

Facilitated by:

College of Continuing
& Professional Studies
UNIVERSITY OF MINNESOTA



CEAM Welcome-2020 Conference

City Engineers Association of Minnesota (CEAM) is delighted to invite you to our Annual Meeting on January 29–31, 2020. For more than 65 years the conference has been a positive environment for education, networking, involvement, and connecting with colleagues old and new. Our conference also continues the tradition of recognizing and celebrating our members' achievements over the past year.

The term “20/20” is associated with vision, focus, and clarity. As we approach the 2020 CEAM conference, it is appropriate for us to keep those attributes in mind. Our conference will start with a keynote address by an academically trained futurist who will offer vision into the coming time. The program also includes a new “101 Series” track during the concurrent sessions. The 101 Series has been developed to focus on the foundation of our profession by providing an overview of a few facets of municipal engineering, hopefully delivering clarity to some of our newest members as they progress in their careers. Sessions on ethics, engagement, and influence will afford insight into nontechnical topics of relevance.

Your work and leadership will continue to do tremendous things at the city and regional levels, as well as across the great State of Minnesota. Hopefully the conference educates and inspires you, resulting in useful resources and ideas to carry to your local communities. We look forward to 2020 with an eye on the spirit of camaraderie that fills our Conference and a view toward meeting with peers and spending valuable time together... both in the sessions and during the breaks. We look forward to seeing you! On behalf of the Conference Planning Committee, welcome!

2020 CEAM Conference Planning Co-Chairs

Justin Femrite, City of Elk River

Joseph Rhein, Bolton & Menk, Inc.

#CEAM2020



Program

Wednesday, January 29, 2020

7:30–8:30 a.m.

Registration and Continental Breakfast

8:30–8:40 a.m.

Welcome

John Gorder, City of Eagan and CEAM President

8:40–10:10 a.m.

The Art and Science of Looking at the Future

Moderator: *Justin Femrite*, City of Elk River

Garry Golden, Forward Elements

Garry Golden is an academically trained futurist who has been providing insights to industry leaders for more than a decade. He helps clients bring structure and discipline to exploring implications of long-term change regarding issues shaping society and business. Garry has worked across a wide range of industry sectors and projects related to the future of infrastructure and the implications of global demographic transitions. He has previously presented at our CEAM Conference in 2011.

In recent years, our profession has absorbed a wave of hype and hope around visions of smart infrastructure aimed at transforming life in our communities. Some strategies continue to hold real potential while others seem to be falling victim to mismanaged promises and expectations. In this keynote session, Garry's presentation will help us learn to think like futurists and imagine local implications to changes in how we design infrastructure solutions for our communities.

10:10–10:30 a.m.

Refreshment Break

10:30–11:30 a.m.

Realities in Community Engagement

Moderator: *Jen Desrude*, City of Burnsville

Jason Staebell, Hennepin County; *Kirt Briggs*, City of Prior Lake; *Chris Chromy*, *Haila Maize*, and *Nicole Schmidt*, Bolton & Menk, Inc.; *Kristen Murray*, Juxtaposition Arts

We've all learned about pop-ups, how to use social media, the importance of inclusive engagement, and other catchy communications tools. But how do we actually apply all these tools to our projects, knowing there are limitations to time, budget, and range of community influence? In this session we will explore how flexibility in engagement strategies, project process, and possible solutions can not only solve a design problem but also begin to rebuild trust between agencies and the public and overcome project history and misinformation. We will also share how to identify where your audience is and how to map out a realistic engagement strategy allowing you to say "yes" where you can and "no" where you have to.

Join our session to learn how trust was built (and even advocated!) in the Moving Forward 13–21 Downtown Reconstruction Project in Prior Lake, and how voice was given to traditionally underrepresented groups that inspired real change in the Webber44 Project in North Minneapolis. Representatives from Hennepin County, Prior Lake, and Bolton & Menk, Inc. will share tips and tricks from these real-world examples.

11:30 a.m.–12:30 p.m.

Awards and Scholarship Winners Recognition

12:30–1:30 p.m.

Lunch

Program

1:30-2:45 p.m.

Concurrent Sessions

Managing Risk and Costs on Challenging Projects by Thinking Like a Contractor: A Project Management Approach for Planning through Construction

Moderator: *Morgan Dawley*, WSB & Associates, Inc.
Michael Rief and Ross Jentink, WSB & Associates, Inc.;
Erik Beggs, Minnesota Paving & Material

A risk management strategy can improve the certainty of project budget and schedule estimates. Estimating and scheduling using construction experience and a contractor approach brings the contractor's perspective early to the process, allowing for a stronger understanding of the multiple ways a project can be built and the resulting costs. The process can include a review of past project performance to identify common issues and to evaluate the unique elements inherent in each project through planning, design, and construction. The contractor perspective provides insight into buildability and thoroughness of the project plan. Project costs can then be reevaluated during construction for continuous improvement of the process.

Water Conservation Initiatives and Incentives

Moderator: *Russ Matthys*, City of Eagan
Brian Davis, Metropolitan Council; *Jon Eaton*, City of Eagan; *Kristen Seaman*, City of Woodbury
This session will describe how simple conservation can achieve significant payback and will present the initiatives and incentives Eagan and Woodbury are employing.

Hot Asphalt Topics

Moderator: *Cody Holmes*, City of Saint Michael
Dallin Doney, Husky Energy; *John Garrity*, MnDOT;
Wayne Dosh, Crow Wing County

Hot asphalt topics! Hear an update on the Husky Refinery in Superior, Wisconsin, and Husky Energy's operations within the United States and Canada. Listen to the latest specification updates that will be delivered by MNDOT. Crow Wing County will present on their use of warm-mix asphalt, from the specifications to best practices at the plant and during construction.

Removing Unwarranted Traffic Controls: Easier Said Than Done

Moderator: *Kevin Bittner*, Bolton & Menk, Inc.
Ross Tillman, Bolton & Menk, Inc.; *Adrian Potter*, SRF Consulting; *Tim Plath*, City of Eagan

Long-standing traffic control signals and other devices can sometimes become unneeded and unwarranted due to shifting traffic patterns. However, removing these devices can be easier said than done and often requires more political will than technical evidence. This session will present examples from the City of Litchfield and Steele County in which the MnDOT methodology was used to develop justification for removing existing traffic signals. This process proved successful in one location but not the other. Find out about the lessons learned in each of these examples and what the impacts of successful signal removal are. Plus you won't want to miss out on myth-busting information related to traffic signals, stop signs, crosswalks, and speed limits.

City Functions 101

Moderator: *Dan Coyle*, Kimley-Horn and Associates, Inc.
David Unmacht, League of Minnesota Cities;
John Shardlow, Stantec Consulting, Inc.;
Terri Heaton, Baker Tilly

This session is the first in the "101 series" of sessions geared toward younger engineers or engineers new to city government. It will feature three mini-sessions: Municipal Government 101; Land Use 101; and

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Finance 101, presented by experts in their fields. Participants will gain an understanding of the role of the city council, statutory requirements pertaining to running city government, the difference between a city manager and city administrator, the role of the planning commission, land use laws and regulation, preparing city budgets and Capital Improvement Plans/Programs (CIPs), and revenue sources available to cities.

2:45-3:15 p.m.

Refreshment Break

3:15-4:30 p.m.

Concurrent Sessions

City Involvement in Redevelopment Projects

Moderator: *Paul Sandy*, City of Brainerd
Regina Dean, City of Burnsville; *Jason Ziemer*, City of Rogers; *Jeff Von Feldt*, Duffy Development Company, Inc.

Redevelopment projects can be found throughout the state, and they can be more challenging than a new or greenfield development project. When cities want to help shape the redevelopment projects within their communities, this can add to the complexity. In this session, two case studies will be presented where cities got involved in redevelopment areas in the hopes of spurring redevelopment. Community Development staff from the City of Burnsville will discuss their “Burnsville Center Village Vision” that was completed at the end of 2018. The City of Rogers staff and Duffy Development Company will discuss their Rogers Main Street Downtown Redevelopment project. Both case studies will discuss the planning process, public/private partnerships, public improvements, successes and challenges, and next steps for their projects.

No Train Horns: Managing Your Expectations for This and Other Railroad Work

Moderator: *Todd Blank*, Short Elliott Hendrickson, Inc.
Josh Cotter, Short Elliott Hendrickson, Inc.;
Daniel Peltier, BNSF

Have you been tasked with quieting train horns in your city? Improving surface crossings? Installing pipes under rail tracks? Come learn about quiet zones—how to get one approved, how long it may take, and what it might cost. Other work, including surface crossings, underground pipe crossings, and recent requirement changes, will be covered. Understanding common challenges and ways to overcome them will help manage your expectations when coordinating work with railroads.

The Face of 5G

Moderator: *Marc Culver*, City of Roseville
Tammy Hartman, Verizon Wireless; *Andy Sackreiter*, AT&T

What has small-cell deployment looked like so far and how is it reshaping our cities? Namely, have aesthetic guidelines mitigated some of the FCC small-cell mandates? This session will explore what is coming next as more smart city technologies become dependent upon this infrastructure, with examples of what some of these most important technologies are.

Minneapolis Vision Zero Crash Study

Moderator: *Dan Coyle*, Kimley-Horn and Associates, Inc.
Ethan Fawley and Steve Mosing, City of Minneapolis;
Anna Potter, Kimley-Horn and Associates, Inc.

The City of Minneapolis completed a comprehensive analysis of pedestrian, bicycle, and vehicle crashes to identify trends, contributing factors, and characteristics of more than 40,000 crashes over a 10-year period. The study considered trends over time, identified high crash and high crash severity corridors, and made connections between crashes and street geometry, land use, demographics, transit, and signal characteristics.

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This session will review the findings of the study and how those results are being used by Minneapolis to guide and prioritize locations for improvements in its Vision Zero Action Plan and its capital improvement program.

State Aid 101: Process, People, and Plan Review

Moderator: *Matt Hansen*, SRF Consulting Group
Dan Erickson and Julie Dresel, MnDOT Metro District and Office of State Aid; *Kelvin Howieson*, MnDOT State Aid

This session is the second in the “101 series,” featuring information on the State Aid division within the Minnesota Department of Transportation. It will benefit young staff who have just begun preparing State Aid plans, as well as experienced staff who want to improve their coordination with MnDOT’s State Aid team. Our panel of experts (Metro and Greater MN) will cover a wide range of important State Aid topics, including legislative funding sources, different types of project funding, project development process, and an overview of handy online training resources

4:30–6:00 p.m.

Reception

Thursday, January 30, 2020

7:00–7:30 a.m.

Past Presidents’ Breakfast

7:30–8:30 a.m.

Continental Breakfast

8:00–8:10 a.m.

Welcome

Joseph Rhein, Co-Chair, CEAM Conference Planning Committee, Bolton & Menk, Inc.

8:10–9:20 a.m.

Three Aspects of the Accelerating Impacts of Climate Change

Moderator: *Thomas Mathisen*, CEAM Lifetime Member

Jessica Hellmann, University of Minnesota;
Emily Robare, Gurtin Municipal Bond Management;
Diana McKeown, Great Plains Institute

In September, record-setting Class 5 Hurricane Dorian did untold environmental damage in the Bahamas. The effects of climate change on the environment and people continue to accelerate. Professor Jessica Hellmann, U of M Director, Institute on the Environment, will discuss her research on this topic and how we will have to adapt both globally and in Minnesota.

In 2018 the Camp Fire destroyed 90% of Paradise, CA. The number of billion-dollar natural disasters has increased dramatically over just the last five years. Emily Robare, Head of Environmental, Social, and Governance (ESG) Research at Gurtin Municipal Bond Management, a Pimco Company, will discuss the impact of climate change on bond rating and bond default. This will affect the ability of cities to raise funds for capital projects and the security of retirement fund investments.

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Diana McKeown is Metro Director for Clean Energy Resource Teams. CERTs assist cities with sustainability efforts, and climate action and resilience planning. She will present several case studies to demonstrate how CERTs can help your city with various programs.

9:20–9:45 a.m.

LRRB Update

Moderator: *Russ Matthys*, City of Eagan
Mike Marti, SRF Consulting Group, Inc.

An update of a workshop on recommended trail pavement management and maintenance practices, as well as associated amenities such as vegetation, drainage, signing/stripping, and lighting, resulting from the Local Road Research Board efforts for the benefit of City Engineers.

9:45–10:05 a.m.

League of Minnesota Cities Update

Moderator: *Dan Coyle*, Kimley-Horn and Associates, Inc.

Dave Unmacht, League of Minnesota Cities

This session will provide an overview of the League's highest priorities and major trends happening in local government. Dave will highlight the League's significant focus on member engagement and how this investment of board and staff time (and energy) is helping the League fulfill its mission to serve all cities in Minnesota.

10:05–10:25 a.m.

Refreshment Break

10:25–11:55 a.m.

The Power of Personal Influence: How to Get Others to Listen to You

Moderator: *Debra Heiser*, City of Saint Louis Park
David Schultz, Hamline University

Do you feel that you are powerless and no one listens to you? Do you feel others push you around? This session examines the dynamics of power and influence and how they are related to communication. It will explore why many of us feel like we have too little influence, how others manipulate us, and how you can develop better communication and other strategies to get others to listen to you so you can get what you want.

As the top-rated speaker at the 2017, 2018, and 2019 CEAM conferences, Professor David Schultz returns to our 2020 Conference with this engaging and informative session on the Power of Personal Influence. He has successfully taught this subject many times as a half-day workshop. In this general session, Professor Schultz will provide an overview of the topic, and for those who want a deeper dive into the material, a follow-up concurrent session will be offered in the afternoon.

11:55 a.m.–12:55 p.m.

Lunch

Twitter

We're on Twitter!
Use hashtag
#CEAM2020
to continue this
year's conference
conversation.

Program

12:55-2:10 p.m.

Concurrent Sessions

The Power of Personal Influence: How to Get Others to Listen to You

Moderator: *Debra Heiser*, City of Saint Louis Park
David Schultz, Hamline University

In this supplement to the General Session, Professor Schultz will provide further investigation of the subject matter, including interactive exercises for the audience. Through this session you will learn about power and influence and the problems faced in communication.

Goals of this session include to understand the forces that shape personal and positional power; to review the relationship between power, influence, and communication strategies; to learn the verbal, visual, and hidden forces that will help you improve your communication and influence skills (including with the public, elected officials, and the media); and to unmask the techniques others use to influence and control you.

Best Practices in Boulevard Turf Establishment

Moderator: *Paul Oehme*, City of Lakeville
Mike Marti, SRF Consulting Group, Inc.;
Derek Northenscald, City of Edina; *Jerry Flicek*,
Tree Protection Services; Turf Seed/Soil Supplier;
Tom Jameson, Gertens

Boulevards serve the essential functions of providing snow storage space for roads and sidewalks, a place for rain and runoff to soak into the ground, and attractive green space in our neighborhoods and cities. However, boulevards are often a difficult place for grass to grow because of the harsh environment with exposure to sun, foot traffic, and salt residue from winter maintenance. Turfgrass installation is often the last item completed during a road construction project. Property owners pay particular attention to the restoration of grass boulevards because they are part of their front yard and aesthetics. City officials, contractors, and property

owners all desire that boulevards be restored to healthy, lush turfgrass. This panel has been formulated to present and discuss best management practices in boulevard turf establishment from different stakeholder's viewpoints and experiences. A new LRRB Brochure and a short LRRB video on boulevard turf best management practices will be presented as part of this session.

Traffic Signals 101

Moderator: *Randy Newton*, City of Saint Paul
John Hagen, City of Maple Grove; *Matt Allwood*,
Traffic Control Corporation; *Roger Plum*,
Short Elliott Hendrickson, Inc.

This session is the third in the "101 series," featuring fundamental information on traffic signals. How do you get a new traffic signal? How should it operate? What maintenance is required? What new technology is available? Come learn these answers and more as a city traffic engineer, a local equipment supplier, and a seasoned signal engineer present this and more to help you with your traffic control!

2:10-2:30 p.m.

Refreshment Break

2:30-3:30 p.m.

Ethics, Trust, and Teamwork

Moderator: *Joe Rhein*, Bolton & Menk, Inc.
Chad Weinstein, Ethical Leaders In Action

Successful public sector engineers bring more than technical expertise to the table. They bring skills and techniques for—and a deep commitment to—building trust-based relationships and fostering the teamwork necessary to complete any project, and to guide an agency or a city over time. This session will present proven, ethics-based techniques for building trust and promoting effective and efficient collaboration on technically oriented teams and projects.

Chad Weinstein is a practical ethicist and consultant with nearly 30 years of experience who understands the real-world dynamics of public sector leadership

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and decision-making, having worked with hundreds of leaders in the public and private sectors to improve leadership, teamwork, and outcomes. Chad returns to the CEAM conference for a third time, with a thoughtful, interactive presentation that is sure to challenge, engage, entertain, and provide continuing education credit in ethics required for PE licensure.

3:30-4:45 p.m.

Emerging Engineering Job Trends

Moderator: *Bob Moberg*, AE2S

Joe Labuz, University of Minnesota; *Justin Gabrielson*, Ames Construction; *Sean Clark*, Saint Cloud Technical & Community College; *Amanda Fuchs*, Kimley-Horn and Associates, Inc.

A panel of representatives from educational institutions, the engineering industry, and the construction industry will present their observations of the current engineering job market. The education panelists will share how they are collaborating with the engineering industry on curricula to help prepare the next generation of engineers and technicians.

4:45-6:00 p.m.

Reception

Twitter

We're on Twitter!
Use hashtag
#CEAM2020
to continue this
year's conference
conversation.

Friday, January 31, 2020

7:30-8:30 a.m.

Continental Breakfast

8:00-8:10 a.m.

Welcome

Justin Femrite, CEAM Vice President and City of Elk River

8:10-8:45 a.m.

MNDOT Commissioner's Update

Moderator: *Kristine Elwood*, Minnesota Department of Transportation

Margaret Anderson Kelliher, Commissioner, Minnesota Department of Transportation (invited)

8:45-9:00 a.m.

MNDOT State Aid Engineers' Update

Kristine Elwood, Assistant Commissioner, State Aid, Minnesota Department of Transportation

9:00-10:00 a.m.

America's Water Infrastructure Act Risk and Resiliency Standards

Moderator: *Steve Klein*, Barr Engineering Company
Jon Groethe, Minnesota Department of Health

This session will discuss the new water supply standards all cities need to adopt by 2022 to reduce system risk and improve system resiliency. The Minnesota Department of Health is leading the training sessions for the standards.

Program

10:00–10:20 a.m.

Refreshment Break

10:20–11:35 a.m.

Mining Cellular Data for Transportation Studies

Moderator: *Dave Sonnenberg*, Stantec Consulting
Cynthia Albright, Stantec Consulting; *Michael Corbett*, Minnesota Department of Transportation

This session will describe the methodologies used to obtain and use StreetLight and AirSage data for transportation studies. The types of data available vary greatly and range from very generic to user specific, requiring an understanding of the information they can provide and the expected level of detail from the study. The speakers will discuss how these data can be used to provide cost-effective results at the level of detail desired.

11:35 a.m.–12:45 p.m.

CEAM Business Meeting

Among other business, there will be an agenda item to discuss updates to the Legislative Committee and seek new leadership to replace Dave Sonnenberg as he works toward retirement. Legislative Committee Chair Dave Sonnenberg, LMC Representative Anne Finn, and CEAM President John Gorder will present.

12:45–1:45 p.m.

Lunch/Adjourn



General Information

Registration and Fees

The registration fee is \$315 and includes all sessions, instructional materials, lunch on Wednesday and Thursday, two receptions, and refreshment breaks. An optional lunch on Friday is available for an additional fee of \$25 (total conference fee of \$340).

Participants may also pay for their annual CEAM membership (\$60) while registering for the conference.

Please register online at www.ceam.org.

\$375 Conference + CEAM Membership

\$315 Conference ONLY and Lifetime Membership

\$60 CEAM Membership Only

\$0 Student Conference Registration
(Wednesday only)

Add-on \$25 – optional additional lunch on Friday

Cancellation Policy

If you need to cancel your registration, a refund of your fee—minus a \$30 processing fee—will be made if written notice is received by January 17, 2020. Cancellations after this date are not eligible for a refund but we may be able to substitute a colleague to attend in your place. The University reserves the right to cancel the event if necessary and would issue a full refund in this case.

Social Media: Join the Conversation Follow us on Twitter at @CEAM_org!

We invite you to join the conversation about the CEAM Conference this year by tweeting about the conference, or posting updates to your LinkedIn and Facebook pages. The conference hashtag is #CEAM2020. Type this hashtag in your tweets or postings to continue the conference backchannel, or you may also search Twitter for this hashtag to view the tweets online. These social media efforts will help participants network and meet new colleagues prior to and during the conference.

Conference sessions and presenters may also engage online participants before, during, and after the conference with additional information.

Attire

Casual attire is welcome. We recommend wearing layers, as the temperature in the meeting rooms is sometimes cold.

Location and Parking

The City Engineers Annual Conference will be held at the Earle Brown Heritage Center, 6155 Earle Brown Drive, Brooklyn Center, MN, 55430. For further information or directions, please visit www.earlebrown.com. Free parking is available surrounding the facility.

Accommodations

Hotel rooms may be reserved at the Embassy Suites by Hilton Minneapolis, 6300 Earle Brown Drive, Brooklyn Center, MN 55430 (conveniently connected to the Earle Brown Heritage Center by walkway). Make your reservation by calling the hotel directly at 763-560-2700. Ask for the “U of M” rate.

Continuing Education Units

Participants who attend the entire conference will receive 1.55 Continuing Education Units (CEUs). One CEU is defined as 10 contact hours of participation in an organized continuing education program. A CEU certificate will be sent to each participant after the conference. A permanent record of CEUs earned will be maintained by the University of Minnesota Office of Admissions and Records Transcript Office.

Please visit the following website for pertinent information about PDH requirements:
mn.gov/aelslagid/index.html

For Further Information

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Committee Members

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Jack Griffin, FOCUS Engineering, Inc.

Matt Hansen, SRF Consulting Group, Inc.

Debra Heiser, City of Saint Louis Park

Cody Holmes, City of Saint Michael

Jeff Johnson, City of Mankato

Steve Klein, Barr Engineering

Mike Kuno, City of Minnetonka

Will Manchester, City of Minnetonka

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Glenn Olson, City of Marshall

Michael Payne, City of Plymouth

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Bob Simons, City of Bloomington

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Jim Studenski, TKDA

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Katherine Hagberg, University of Minnesota

Kayley McPhee, University of Minnesota

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