

Wisconsin Professional Development Hour (PDH) Credits Available!



**March 5-6**  
**WISCONSIN DELLS**

GLACIER CANYON LODGE  
at the Wilderness Resort

Presented by:

**ACEC**  
*Wisconsin*



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# CONFERENCE DETAILS

## TRANSPORTATIONIMPROVEMENTCONFERENCE MARCH 5-6, 2019

The American Council of Engineering Companies of Wisconsin and the Wisconsin Department of Transportation are partnering for the eleventh consecutive year to present the 2019 Transportation Improvement Conference. This year's theme is "Partnering to Improve Efficiencies." The conference brings together the department and consulting engineering community for transportation-related professional development programming and networking opportunities.

The conference and networking reception are open to registered attendees only.

## PROFESSIONAL DEVELOPMENT HOUR CREDITS

Credits awarded at the 2019 Transportation Improvement Conference are eligible for Wisconsin continuing education credit. Professional development hour (PDH) credits will be awarded for sessions attended. Full conference attendance is eligible for an estimated 6 PDH credits (includes participation in March 5 sessions). ACEC WI is listed as an approved provider of continuing education programs for professional engineers by the Wisconsin Department of Safety and Professional Services.

## CONFERENCE LOCATION

Glacier Canyon Lodge (at the Wilderness Resort)  
45 Hillman Road, Wisconsin Dells, WI 53965  
800-867-9453 | [www.glaciercanyonlodge.com](http://www.glaciercanyonlodge.com)

## Guest Room Reservations

Guest rooms are available at the Glacier Canyon Lodge the evening of March 5 at the prevailing government rate (\$99 for double, triple and quad rate). This rate is available to the entire room block. Room rates are subject to tax (12.25%) unless tax-exempt information is provided. **Make your reservation by February 11 to receive the group rate.**

To receive the group rate, call 800-867-9453 and tell the agent you are booking under ACEC-WisDOT Transportation Improvement Conference Reservation at the Glacier Canyon Lodge, Leader #588546. A credit card is required to hold and guarantee the reservation. The card will not be charged at the time of reservation. An alternate card may be

provided at check-in. Every effort has been made to block rooms within the conference center wing; however, due to the variety of room types available, not all blocked rooms are in close proximity to the conference center. A limited number of larger suites are available upon request. There are a limited number of rooms available the evening of March 4.

Hotel check-in time is 4:00 p.m. and checkout is 11:00 a.m.

## Tips for a Smooth Hotel Check-in

**Tax Exempt Reservations** – The Glacier Canyon Lodge sends reservation confirmation notices via email. Follow the link within the confirmation email for instructions on claiming the tax exemption for government room rates. Since reservations are made on an individual basis, tax exempt documentation is required for each guest.

**Pre-register at the Glacier Canyon Lodge Lobby** – You may check-in at the front desk in the lobby after 12:00 p.m. At that time you will receive room keys. If your room is not available, you will receive the key and then a text message once the room is ready. If you arrive before noon, you may pre-register at the front desk for your room; however, your room key will not be available.

## Glacier Canyon Lodge Guest Room Cancellation Policy

- Prior to Feb. 11 = no charge
- After Feb. 11, but more than 72 hours prior to scheduled arrival = \$20 cancellation fee
- Within 72 hours of scheduled arrival = entire room rate will be charged

## CONFERENCE APP & WEBSITE

The conference will utilize a mobile app which will contain all session information, maps, personalized scheduling information, presentation materials and evaluation surveys. These materials will also be available after the conference through the app and through a traditional website.

If you do not have a smart phone, you can utilize the website to download the materials.

It is highly recommended that you download the app before the conference. The app will be available in mid-February. Watch for an email notification to download the app.

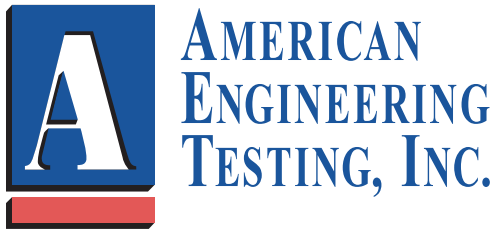
# GOLD SPONSORS



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# CONFERENCE AGENDA

Sessions are described in detail on the following pages. Session and session descriptions are subject to change. Conference attendees are asked to pre-register for the conference and breakout sessions.

## Tuesday, March 5

- 1:00 p.m. Registration Begins
- 2:00 p.m. ACEC WI Legislative Update
- 2:15 p.m. Watch Your Ethics!
- 3:15 p.m. Networking Break
- 3:30 p.m. Autonomous Vehicles on the Road
- 4:30 p.m. Networking Reception
- 6:00 p.m. Evening Concludes

## Wednesday, March 6

- 8:00 a.m. Registration & Breakfast Buffet
- 9:00 a.m. Morning Session
  - WisDOT Welcome
  - FHWA Updates
  - ACEC WI Updates
- 10:00 a.m. Networking Break
- 10:30 a.m. Breakout Sessions A
- 11:30 a.m. Networking Lunch
- 12:15 p.m. FDM Updates
- 1:15 p.m. Passing Time
- 1:20 p.m. Breakout Sessions B
- 2:20 p.m. Networking Break
- 2:45 p.m. Breakout Sessions C
- 3:45 p.m. Networking Break
- 4:00 p.m. Closing Session
  - WisDOT Technical Updates
  - WisDOT Excellence in Highway Design Awards
- 5:00 p.m. Conference Concludes

## THANK YOU

Thank you to the 2019 Transportation Improvement Conference Planning Committee for planning and coordinating this year's event!

### Conference Co-chairs:

Paul Conlin, WisDOT  
Linda Krueger, Michael Baker International

### Committee Members:

Scott Hasburgh, Mead & Hunt (TSC Liaison)  
Jeff Abramson, Ayres Associates  
Kevin Anderson, Foth  
Rachel DeSombre, raSmith  
Chris Dry, EMCS  
Ben Goldsworthy, CH2M  
Dan Grasser, Alfred Benesch  
Andrew Heidtke, ACEC WI  
Luke Holman, Strand Associates  
Angie Kerrigan, Mead & Hunt  
Ray Kumapayi, WisDOT  
Kevin Meyer, CORRE  
Jed Munroe, JT Engineering  
Todd Needham, RH Batterman  
Brian Roper, WisDOT  
Gerry Schmitt, KL Engineering  
Scott Stevenson, AECOM  
Josh Woller, Short Elliott Hendrickson



[www.acecwi.org](http://www.acecwi.org)

# REGISTRATION OPENING & CLOSING SESSIONS

The conference registration fee includes: conference app; March 5 programming, networking reception and appetizers; and March 6 breakfast buffet, lunch and networking break refreshments. The networking reception on March 5 will include a cash bar.

## **ACEC WI Member Rates**

Early Registration (by February 11) - \$180

Regular Registration (by February 26) - \$205

## **Non-Member Rates**

Early Registration (by February 11) - \$320

Regular Registration (by February 26) - \$370

## **FHWA/Government (non-WisDOT) Registrations**

The registration rate is \$100. Use the enclosed form or register online by February 26. WisDOT registrants, please see the special registration instructions.

## **Return registration forms or register online by February 26:**

ACEC WI

316 W. Washington Ave, Ste. 950

Madison, WI 53703

608-257-9223 | fax 608-257-0009

acecwi@acecwi.org | www.acecwi.org

## **WisDOT Registrations**

Registration for WisDOT employees is coordinated through the department's central office. The registration rate is \$100.

**All WisDOT registrations should be directed to Nina Berkani by February 26.** Please contact Nina at [nina.berkani@dot.wi.gov](mailto:nina.berkani@dot.wi.gov) or 608-266-1496 with questions or to register.

## **Conference Registration Cancellation Policy**

Registration is fully refundable if cancellation is received by February 26. Cancellations will not be accepted after February 26; registration is transferable to another individual.

## MORNING, AFTERNOON & CLOSING SESSION DESCRIPTIONS

### **Morning Session**

**Wednesday, March 6, 9:00 a.m.**

#### **WisDOT Welcome**

Wisconsin Department of Transportation leadership is invited to provide updates on the department's latest initiatives.

#### **FHWA Updates**

Get the latest information on FHWA's initiatives.

#### **ACEC WI Updates**

Hear from ACEC WI's transportation leaders on what the organization is doing and what you can do to help.

### **Afternoon Session - FDM Updates**

**Wednesday, March 6, 12:15 p.m.**

Learn about the incredibly important changes to the FDM. This session will feature education direct from WisDOT management about these changes and lessons learned. Hear about common tips and pitfalls with the new standards and better adapt to a changing landscape.

### **Closing Session**

**Wednesday, March 6, 4:00 p.m.**

#### **WisDOT Technical Updates**

WisDOT will update attendees on the latest information on the department's technical initiatives.

#### **WisDOT Excellence in Highway Design Awards**

The closing session features the presentation of the 2019 WisDOT Excellence in Highway Design Awards.

# MARCH 5 SESSIONS

March 5 is the opening day of the conference and all attendees are encouraged to attend. All sessions and the networking reception are included with registration.

## March 5 Agenda

1:00 p.m.	Registration Begins
2:00 p.m.	ACEC WI Legislative Update
2:15 p.m.	Watch Your Ethics!
3:15 p.m.	Networking Break
3:30 p.m.	Advanced Technology Initiatives and Partnerships
4:30 p.m.	Networking Reception
6:00 p.m.	Evening Concludes

## SESSION DESCRIPTIONS

### ACEC WI Legislative Update

Join ACEC WI for a discussion of legislative items that could affect the engineering industry and professional engineers.

### Watch Your Ethics!

**Speakers: Paula Dixon & Reid Just, Holmes Murphy**

Ethics is not always black and white and sometimes is open to various interpretations. What one person may deem unethical, another may deem perfectly acceptable and others may be in-between the two. This course will cover ethical considerations that architects and engineers face on a frequent basis. The session will discuss national ethics codes such as the AIA Ethics Code and NSPE Code of Ethics, as well as the State of Wisconsin's Rules of Professional Conduct. Aspects of these codes will be discussed within the context of real world experiences and issues that commonly arise in providing professional services.

Learning Objectives:

- Review the national and state ethics codes.
- Understand how to utilize ethics codes to maintain professional integrity.
- Discover how to assess situations to determine if ethical considerations are warranted.

### Sun Prairie Natural Gas Explosion

**Speakers: Lee Igl & Adam Schleicher, City of Sun Prairie**

Do you have an emergency response plan? Has it been tested? How did you do? This session will discuss some of the success and some of the failures in responding to the downtown gas explosion in Sun Prairie. We will talk about how an explosion that took one life, destroyed 7 business, displaced 55 residents, closed Main Street, City Hall, Fire Station #1 and Emergency Operation Center affected our response plan. We will discuss how Public Works and Engineering were first responders and last responders.

*Learning Objectives:*

- Learn how to plan a response for an event you can't imagine.
- Determine how to utilize the plan and react to new situations.
- Consider steps to add to plans in light of new information.

### Networking Reception

Join your peers for networking and socializing immediately following the sessions. Appetizers will be provided. There will also be a cash bar for attendees.



# BREAKOUT SESSIONS A | March 6, 10:30 a.m.

## A1 Bluebeam Revu for Design Reviews

*[Technology Track]*

**Speakers:** Scott Ebel, WisDOT; Josh Skarsten & Margaret Welch, AECOM; Ryan Schaitel, Ayres

Learn how Bluebeam Revu software is being implemented in the department's plan review process for both WisDOT and consultant designed plans. The course will highlight the use of Bluebeam in design and construction. This presentation will highlight introductory functions and useful features of Bluebeam as an advanced communication and management tool.

*Learning Objectives:*

- Review WisDOT Bluebeam Revu process and implementation.
- Discover collaborative and commenting tools.
- Understand how to hold efficient review meetings.

## A2 WisDOT Plancheckers Lessons Learned

*[Processes Track]*

**Speaker:** Jillene Fehrman, WisDOT

Join peers and WisDOT for a review on the job of WisDOT plancheckers. The session will review how plancheckers reviews your plans and how to improve your processes. Hear about the new policies affecting the department and how to adapt to changes.

*Learning Objectives:*

- Learn what has been done well and what can be improved.
- Review the plancheckers checklist.
- Understand recent policy updates and what has changed.

## A3 What's Trending in Environmental Documentation

*[Programs Track]*

**Speaker:** Jay Waldschmidt, WisDOT

The WisDOT Environmental Process and Documentation Section will provide an update on a variety of topics related to environmental documentation for transportation projects in Wisconsin. We will learn about the revised Basic Sheets (ER and EA template) and an update to the WDNR Programmatic Concurrence Process. This session will also touch on revisions to other environmental document templates and Trans 400 updates.

*Learning Objectives:*

- Review changes in environmental documentation guidance.
- Develop best practices as a result of the revised EA and ER templates.
- Understand new directives the section is taking.

## A4 Foxconn and I-94 N/S Lessons Learned

*[Projects Track]*

**Speaker:** Brett Wallace, WisDOT

This session will focus on best practices and unique techniques utilized on the Foxconn/Wisconsin Valley development roadways and I-94 North-South project in southeast Wisconsin. The discussion will center on WisDOT's solutions for design delivery, construction oversight, and private/public coordination on the fastest WisDOT Mega project, coupled with the largest private development project in Wisconsin history. It will be an interactive discussion with the WisDOT Foxconn Director that will provide an insight on the opportunities and challenges associated with a project of this magnitude.

*Learning Outcomes:*

- Learn how to stage a multiphase public and private project.
- Discover how to manage scope, schedule and cost changes.
- Understand the project's delivery techniques and construction oversight.

## A5 Cost-Saving Construction

*[Miscellaneous Track]*

**Speakers:** Kevin McMullen, WCPA; Brad Eberhardt, Hoffman Construction

This session will focus on two cost saving topics: impacts of staging on construction duration, cost and quality and the benefits and implementation of string-less paving utilizing Automated Machine Guidance (AMG) technology. The first portion of the presentation will focus on defining and understanding how implementing staged construction during design can incrementally increase costs and have other impacts. The second portion of the session will discuss the cost and time savings benefits of AMG technologies, and will review projects which have utilized the technology.

*Learning Outcomes:*

- Learn cost reducing strategies when developing staging plans.
- Understand how AMG technology is changing the paving industry.
- Review digital model requirements and project QA/QC.

# BREAKOUT SESSIONS B | March 6, 1:20 p.m.

## **B1 Hard-Shoulder Running**

*[Technology Track]*

**Speaker:** Karianne Steffen, HNTB

Hear about hard-shoulder running implementation as part of the Active Traffic Management project along US 23 in Michigan. The presentation will outline the design and operations of the hard-shoulder running lane, along with other elements of the project, which has recently opened to traffic.

*Learning Objectives:*

- Understand issues faced during environmental phase of US 23 corridor.
- Learn how systems management led to active traffic management.
- Review lessons learned during construction of US 23.

## **B3 WisDOT Local Programs Updates**

*[Programs Track]*

**Speakers:** June Coleman and Bob Reed, WisDOT

This session will provide an overview of local aid programs and update attendees on the changes made to key policies that impact the implementation of the program.

*Learning Objectives:*

- Learn about the changes to local aid programs.
- Understand updates to policy changes to the program.
- Review implementation of the program and look to future steps.

## **B4 Storm Chasers - 2018 Flood Response and Cleanup**

*[Projects Track]*

**Speakers:** Brenda Schoenfeld & John Steiner, WisDOT

The summer of 2018 brought heavy rains that resulted in a federal disaster declaration with widespread flooding affecting 14 of the 16 counties in southwestern Wisconsin. This presentation will provide an insight of events during the flooding, the overall effort to cleanup the impacted areas, and the financial side to restore the infrastructure..

*Learning Objectives:*

- Understand the extent of the flooding and impacts across the Southwest Region.
- Learn about the effort and financial side of continued cleanup.
- Learn about the projects involved with repairing roads and bridges.

## **B5 Contractor Roundtable**

*[Miscellaneous Track]*

**Speakers:** Dana Fredrickson, Mathy; Matt Grove, WTBA; Aaron Poster, Payne & Dolan; Daniel Zignego, Zignego Company

This moderated Q&A session with contractor representatives will discuss varying cost saving strategies that are applicable to today's modern transportation projects. Discussion will focus primarily on best practices and strategies engineers can implement to minimize costs without infringing upon the safety of workers and traveling public. There will be time at the end of the session for questions from the audience.

*Learning Objectives:*

- Understand the impacts that different delivery/schedule have.
- Gain exposure to the challenges and risks contractors face.
- Review how decisions made during design can reduce project costs.

# BREAKOUT SESSIONS C | March 6, 2:45 p.m.

## C1 Civil 3D Beyond the Designer

*[Technology Track]*

**Speaker: Brian Veit, KL Engineering**

From Seal to Caice to Civil 3D, design software is evolving. In the past a designer would produce plan data at only major stations along the corridor and only in the pdf format. Civil 3D has changed this environment. Designers can now produce more accurate and comprehensive data throughout an entire project. This data can sometimes be as easy as pushing a single button to as complex as modeling a curb ramp. Understand what abilities Civil 3D is capable of and limitations are key components to a design.

*Learning Objectives:*

- Gather a better understanding of Civil 3D Workflows.
- Discover Civil 3D tools a reviewer can use to reduce risk.
- Understand the limitations and deliverables in Civil 3D.

## C2 Consultant Services & Masterworks Forum

*[Processes Track]*

**Speaker: Brian Roper, WisDOT**

Engage in open dialogue with WisDOT's Consultant Chief regarding the consanguinity of consultant processes and Masterworks. This will be an audience-driven session.

*Learning Objectives:*

- Gain exposure to the latest strategic and tactical initiatives.
- Learn answers to frequently asked questions.
- Understand tips and traps from solicitation to selection.

## C3 Local Bridge Strengthening & Wind Loaded Structures Update

*[Programs Track]*

**Speakers: Alex Pence & Andrew Smith, WisDOT**

Many local system bridges have significant service life remaining, yet require a load posting due to their original design load being lighter than today's legal truck weights. WisDOT's new Local Bridge Strengthening Program aims to provide efficient, innovative and economical methods to strengthen these bridges and remove weight limit postings from important freight routes. Additionally, the Wind Loaded Structure Initiative through WisDOT Bureau of Structures is in process of transitioning design of overhead sign supports and

sign bridges to the relatively new AASHTO LRFD specification. In addition, the initiative is working toward increasing the range and type of signs that have standardized designs.

*Learning Objectives:*

- Review Wisconsin's inventory of posted bridges and weight restrictions.
- Learn economical methods to strengthen different types of bridges.
- Discover criteria to select candidate bridges.

## C4 I-39 Expansion - Work Zone Traffic Control

*[Projects Track]*

**Speaker: Richard Cannon, WisDOT**

The I-39/90 Project involves the expansion of approximately 45 miles of freeway and reconstruction of 11 interchanges from the Illinois state line to the US 12/18 interchange near Madison. In order to address variable construction bids and constrained budgets, the I-39/90 Project Team investigated and implemented many innovative methods to improve the efficiency of the design and construction processes. This session will provide an overview of the I-39/90 project status and discussion of some of the efficiencies that have been implemented..

*Learning Objectives:*

- Understand the status and process of delivering this mega-project.
- Gather insight into innovative design and construction methods.
- Develop a greater knowledge of measures to quantitatively evaluate project efficiency.

## C5 PWL and Upcoming Mix Designs

*[Miscellaneous Track]*

**Speaker: Barry Paye, WisDOT; Signe Reichelt, Behnke Materials**

This course will discuss the benefits on the new PWL along with results on the recent research on Rubber Asphalt and testing standards for Performance Engineering Mixtures (PEM).

*Learning Objectives:*

- Discover PWL initiatives and benefits.
- Learn about the latest research into a new testing standard for PEM
- Understand the importance of a recent study on rubber asphalt.

## 2019 TRANSPORTATION IMPROVEMENT CONFERENCE - REGISTRATION FORM

### REGISTRANT DETAILS

Name \_\_\_\_\_ PE, SE, etc. \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Email \_\_\_\_\_

Dietary Restrictions \_\_\_\_\_

### BREAKOUT SESSION REGISTRATION

Please select your breakout session preference by selecting one session in each section below:

#### Breakout Sessions A – 10:30 a.m.

Bluebeam Revu (A1)	WisDOT Plancheckers (A2)	What's Trending in Enviro. (A3)	Foxconn (A4)	Cost-Saving Construction (A5)
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#### Breakout Sessions B – 1:20 p.m.

Hard-Shoulder Running (B1)	Local Programs (B3)	Storm Chasers (B4)	Contractor Roundtable (B5)
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#### Breakout Sessions C – 2:45 p.m.

Civil 3D (C1)	Consultant Services (C2)	Local Bridge Strengthening (C3)	I-39 Expansion (C4)	PWL/Mix Designs (C5)
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### MARCH 5 NETWORKING RECEPTION

Will you be attending the March 5 Networking Reception?

Yes

No

### REGISTRATION TYPE & PAYMENT

Please select a registration type and payment option. Electronic registration is available at [www.acecwi.org](http://www.acecwi.org). Please contact ACEC WI at 608-257-9223 with questions.

#### ACEC WI Member

\$180 (by 2/11/19)

\$205 (by 2/26/19)

#### Non-member Consultant

\$320 (by 2/11/19)

\$370 (by 2/26/19)

#### FHWA/Gov't Rate

\$100 (by 2/26/19)

**WisDOT Registrations:** Contact [nina.berkani@dot.wi.gov](mailto:nina.berkani@dot.wi.gov) to register.

**Please return this form and payment to ACEC WI by February 26:**

ACEC WI | 316 W. Washington Ave, Ste 950 Madison WI 53703 | 608-257-9223 | fax 608-257-0009 | [acecwi@acecwi.org](mailto:acecwi@acecwi.org)

Or register online at <https://www.acecwi.org/events/2019-transportation-improvement-conference>.

Check enclosed

Check mailed separately

Credit Card\*

Cardholder Name \_\_\_\_\_

Card Number \_\_\_\_\_

Billing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Expiration Date \_\_\_\_\_ Security Code \_\_\_\_\_

\* ACEC WI is PCI compliant in protecting credit card information. Do not send credit card information by email; it is not secure.

**Cancellation Policy:** Registration is fully refundable if cancellation is received at ACEC WI by February 26. Cancellations will not be accepted after 2/26/19; however registration is transferable to another individual.