



WSPE eNews

A monthly publication from the Wisconsin Society of Professional Engineers

March 2014 Edition

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1. Discovery Conference: Early Bird Registration

By Ed Rodden II

*Where: Kalahari Resort & Conference Center
Wisconsin Dells*

*When: Thursday, **May 29** & Friday, **May 30**, 2014*

*Members Welcome:
at the Board of Directors Meeting
Wed, May 28, 4pm-6pm, dinner to follow*

WSPE is offering discounted "early-bird" registration fees beginning on Monday, March 17. These discounted fees will be available until Monday, April 14. On March 17, you will be able to register and pay for the conference on the WSPE website using a credit card, PayPal, or with a check in the mail. Sponsoring is made available through our recently revamped Support Organizations Initiative. Contact Ed ([414-531-1129](tel:414-531-1129)) prior to March 10 to be included in this year's Conference! <http://www.wspe.org/sponsors.shtml>

The "early bird" fee is \$175 for members, \$190 for non-members; and \$75 for students. Register before April 14 to take advantage of this discount! Life & Retiree membership status receive rates at half price.

<http://www.wspe.org/discovery.shtml>.

Attending this conference can help you earn 13.0 Professional Development Hours (PDHs), which includes 2 required Ethics PDHs by attending these sessions.

The conference will consist of 2 general sessions and 2 breakout sessions each day. Keynote speakers include WisDOT Secretary Mark Gottlieb, NSPE President Robert Green, Finn Hubbard, Denis Roznowski, and Norm Arendt. Confirmed presentation topics include:

- 1 I-35W Bridge Failure (by structure & environmental experts)
- 1 I-43 Leo Frigo Bridge
- 1 Ethical Theory
- 1 Universal Design: Adapting for the Future
- 1 Lower Fox River Remediation (Received International Bentley Award in London)
- 1 Reduce Liabilities by Creating Better Specifications
- 1 Dowel Technology in Exterior Pavements
- 1 Biomethane as a Transportation Fuel
- 1 Planning Design & Construction: UW-Milwaukee Innovation Campus
- 1 Accelerated Bridge Construction (ABC)
- 1 Contract Review/Risk Management
- 1 2 ethics presentations by NSPE President Robert Green
- 1 Memorial Union Series including presentations in the following disciplines:
Electrical, Architectural, Structural, and Mechanical
- 1 Epic Deep Space Roof Lift
- 1 Retrofitting Roundabouts for OSOW accommodation
- 1 Vinyl in Design

1 Operating Cost Reductions for Pump Stations (Advanced SCADA Technology)

In the middle of these breakout sessions, we will be offering a catered lunch and an awards ceremony.

After each session you attend, you will receive a DSPTS-Approved PDH Validation Form. This form will be signed by an executive officer and yourself. Keep this form in your professional file for proof of Continuing Education credit.

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2. "Neither Snow Nor Rain..." Stays GRAEF from the Swift Completion of Their Bridge Inspection!

By Albert M Lindner, PE, SE

GRAEF is presently under contract by the Wisconsin DOT to do an In-Depth Inspection of the bridges in the Lake interchange. All of the bridges that presently have traffic are to be inspected. The inspectors have to work around all of the construction being done for the rehabilitation of the Hoan Bridge. The inspection is part of a federal mandated six year cycle of all unique bridges to be inspected, up close at an "arms reach" of all members.



All of the arrangements were made with the inspection team at GRAEF and Dawes, the manlift rental firm, to start on Monday, February 17. Who knew we were to be in line for 6 inches of snow during the first day? Several inspectors had to enter through hatches on the bottom side of the concrete superstructure to inspect the concrete "honeycombed" areas of the bridge. These inspectors were relatively cozy. But the inspectors on the outside of the bridge, looking at the freeway's railing system, did not have it so good. Besides being out in the cold and snowy weather, they were on the receiving end of a wall of snow dumped upon them whenever a snow plow would push the snow off the freeway at 45 miles an hour.

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3. County Highway Full Depth Reclamation Project Profile

By Jim Rosenmerkel, PE

Purpose

CTH BI is 1.25 miles long, connects CTH I and STH 26 in the Town of Burnett and is bordered by farm/residential properties and a hunting preserve. The old pavement consisted of some areas of HMA and some seal coat surfaces, but nothing uniform, and all of which was in very poor condition. There are narrow to no shoulders and since it was late in the season, Dodge County needed to renovate it quickly.

Scope / Challenge

The existing pavement was narrow, constructed over poor soil and consisted of only thin layers of HMA, some areas of mostly seal coat applications and 8-12 inches of base course. Exposure to rainy weather would have devastating impacts on construction schedules, cost and performance. After several meetings and discussions, the County decided to employ FDR [full depth

reclamation - recycling the pavement in-place], strengthening it with Class 'C' fly ash and constructing a new HMA surface. FDR was projected to reduce construction time by over 30%, eliminate concerns for unsuitable weather, minimize the need for additional natural materials and save significant cost for the County.



Fly ash-stabilized base being compacted on CTH BI in Dodge County.

Solution

Reconstruction of the pavement began by pulverizing and re-grading the old pavement to approximate final profile and cross slope. Self-cementing class 'C' fly ash was spread at a rate of 100 # / SY on the new base course surface, mixed with a pulverizer, compacted and graded to final specification requirements. Water was added to yield optimum density and promote hydration of the fly ash. After final grading and rolling with a smooth drum roller, it was ready for new HMA pavement. The entire 1.25 mile section was stabilized and final graded in less than 2 days. A day after stabilizing, the new HMA pavement was placed in one 3" pass. Actual paving was done with County forces. The final product provides 22' of new surface and new narrow shoulders. And since this project was completed in late fall, in only 5 days, it may well become the model for other county highway improvements.

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4. Earn PDHs at MSOE's PEAK Event on Saturday, March 8th!

By Brittney Lynn, Continuing Studies and Outreach at MSOE

Earn PDHs at MSOE's PEAK Event on Saturday, March 8th!

A PEAK event is a collaborative knowledge exchange facilitated by MSOE with the goal of providing a cost-effective way for PEs to earn the professional development hours (PDHs) now required for maintaining licensure in Wisconsin. One PDH is awarded for each one hour of session completion, so you have the potential to earn up to 8 PDHs.

A few of our sessions include the following topics:

- Ethics for Engineers
- Additive Manufacturing
- Project Management for Engineers
- Intellectual Property Protection
- Managing the New Product Development Process

...and more! Register now: <http://www.msoe.edu/community/admissions/adult-learner/page/1736/peak-mini-conference>

Questions? Contact Brittney Lynn at lynn@msoe.edu / (414) 277-2345

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5. President's Message

By Frederick W. Groth, P.E., S.E.

The cold winter continues! It's already March and we are still seeing -10 F for low temperatures and highs in the teens. Now that is COLD. But spring should be right around the corner... at least let's hope so.

Montee Ball's Denver Broncos proved to be no match for Russell Wilson's Seahawks. I'm happy to congratulate ex-UW-Badger Russell Wilson on his outstanding leadership and stellar season.

By the time you read this, we'll know if the UW Badgers men's basketball team have kept their hot streak going with a win over Penn State on Sunday. The NCAA tournament is right around the corner!



*Fred Groth, P.E., S.E.
WSPE President, 2013 -
2014*

Last month I reviewed our 2013-2014 Goals and Objectives and I'm proud of the fact that we look like we are going to meet these goals.

Now I'll focus on another initiative we are about to launch. In my Nov/Dec President's Message, I talked about launching our Continuing Education Initiative, which included the following:

1. 13 PDH's from NSPE online. This will be free for joining WSPE/NSPE.
2. Live presentations online so you can get part of the 15 live/interactive PDH's required with questions and follow up. These speaker presentations will be live for persons going to local chapter meetings and will be available online at time of the presentation. We are planning on offering this at reduced cost to WSPE members. You will be able ask questions to speakers at the end of each presentation.
3. We will be also offering enterprise membership to firms who join and enroll members in WSPE/NSPE. Firms will be able to take advantage of these continuing education PDH's thru this enterprise membership.
4. The WSPE Discovery Conference will continue to have live speakers and you can earn 15 PDH's by attending this two-day conference. By being a WSPE member you can attend this WSPE Discovery Conference at a reduced rate.

We are currently launching and rolling out each of these items. Refer to the [Discovery Conference: Early Bird Registration](#) article for more information regarding #4. We will continue to offer this Discovery Conference every year and bring great speakers from all disciplines so you can earn continuing education PDH's and interact with fellow WSPE members.

Regarding item #2, as local chapters have presentations, we will be making an effort to broadcast these as live presentations to representatives from other chapters online at the time of presentation. We hope to set up one of these live/online presentations in April. We'll send you more information about this as this plan progresses so that you can attend.

Items #1 and #3 are in place. Please contact Ed Rodden II (ExecDir@wspe.org), WSPE Executive Director, for more information regarding these two items.

Please help by getting involved in WSPE so we can become your valued organization again. If you have questions about how to get involved, please email me at fred.groth@graef-usa.com or give me a call at (608) 335-2978. You can also email our WSPE Executive Director, Ed Rodden, at ExecDir@wspe.org.

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FREE 6-Month Trial Membership!

Interested in WSPE but not sure if you want to join? Try a 6-month FREE trial membership, courtesy of WSPE.

Go to www.wspe.org/WI%206%20months%20Free%20Membership%20Application.pdf to download an application.

Contact Ed Rodden, WSPE Executive Director, at ExecDir@wspe.org for details.

We Need Your News!

- 1 Is your chapter hosting an event?
- 1 Did your chapter get some new members?
- 1 Have you started your own business?
- 1 Is your company taking on a really challenging project?

If you said "yes" to any one of these questions, or would like to share anything even remotely newsworthy with the rest of WSPE, please send your articles to Clayton Grow, WSPE eNews Editor, clayton@thewritingengineer.com.

We look forward to including your news in our monthly updates!



Join the discussion at [WSPE's LinkedIn Group](#) or



["Like" us on Facebook.](#)

We Need Your Email Address!

If you are reading a paper copy of the WSPE eNews, you're missing out! Send your email address to Ed Rodden, WSPE Executive Director, at ExecDir@wspe.org or call him at (414) 531-1129 to receive electronic eNews.

Advertisers Wanted

Help us offset the costs of producing this eNews by placing an advertisement here! There is a nominal fee of \$25 per issue per article/advertisement. If you are interested in advertising your company here, please contact Ed Rodden, WSPE Executive Director, at ExecDir@wspe.org or [\(414\) 531-1129](tel:4145311129).

Thanks for your help.

Update Your Information with WSPE

Did you...

- ...get a new job?
- ...get promoted?
- ...get a new phone number or email address?
- ...get your PE license?

You can update your information yourself on the NSPE website!
[Click this link to update your membership information.](#)

Alternatively, you can send your new information to Ed Rodden, WSPE Executive Director, at ExecDir@wspe.org or call him at (414) 531-1129 and he'll make sure your information is updated in both the WSPE and NSPE databases. We'd also like to include an article in the next eNews summarizing your recent change or accomplishment to inform your fellow WSPE members.

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WSPE Mission Statement

WSPE is an organization of licensed Professional Engineers (PEs) and Engineering Interns/Engineers in Training (EIs/EITs).

WSPE enhances the image of its members and their ability to ethically and professionally practice engineering through education, licensure advocacy, leadership training, multi-disciplinary networking, and outreach.