



WSPE eNews

A monthly publication from the Wisconsin Society of Professional Engineers

May 2014 Edition

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1. President's Message

By Frederick W Groth, PE, SE

Well spring has finally arrived. I cannot wait until I get to plant the garden.

Well, what a season for our Badgers basketball team! Making it to the Final Four and losing by only one point! What a year... Congratulations to Bo Ryan and the Badger team. It was a great year. Next year's team may be even better, as we're losing just one senior.



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

I am nearing the end of my term as President of WSPE and this will be the second to last President's message. It certainly has gone fast. I am proud of what WSPE has accomplished in the last few years. More on that in my final President's message next month.

As I reiterated in my last President's message, we have rolled out the **Continuing Education Initiative**. It is summarized below:

1. 15 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.

Refer to the [2014 Discovery Conference article](#) in this newsletter for more information regarding the May 29-30 Discovery Conference referenced in initiative #4. **It is not too late to register!** We will continue to offer the Discovery Conference annually and bring great speakers in all disciplines so you can earn continuing education PDH's.

Regarding Item #2: as local chapters have presentations, we will be trying to broadcast these as live presentations to other chapters available online at time of presentation. We hope to be setting up a live presentation shortly and will try to get the information out to all chapters so you can attend.

If you need further information on items #1 and #3, please contact Ed Rodden, our Executive Director.

As my term as WSPE President winds down, I plan to chair the WSPE Legislative Committee for 2014 – 2015, beginning July 1, 2014. I am looking for new members to join and work with me to monitor key legislature and budget bills that affect the engineering profession. If you are interested in working on this committee please contact me at (608) 335-2978 or email me at fred.groth@graef-usa.com

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 the WSPE Executive Director, Ed Rodden, at ExecDir@wspe.org or (414)531-1129.

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2. Now on Twitter: WSPE!

By Ed Rodden II

WSPE is now on Twitter! Follow the official WSPE Twitter handle [@WIExecDir](https://twitter.com/WIExecDir). You can also follow Ed Rodden directly, [@EdRodden](https://twitter.com/EdRodden).



WSPE recognizes that by following in the social media footsteps of NSPE we can communicate with our younger members more easily and regularly. We can also use these various social media outlets to encourage prospective members to join.

You can connect with other WSPE members via Twitter when you communicate with the WSPE Twitter account and potentially make new connections with upcoming EITs and PEs.

Forward any questions to Ed Rodden II at ExecDir@wspe.org.

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3. Project Planning for Engineers

Submitted by OnCourse Learning



INCOSE Chicagoland Chapter Spring 2014 Tutorial:

Project Planning for Engineers

Date: Saturday, May 10, 2014

Time: 8:00 AM to 5:00 PM (CDT)

Location: Bjorksten | bit 7 - Madison, Wisconsin

What you'll learn:

In this one day workshop we will show you how to leverage what you already know as an engineer to produce outstanding project plans. We'll work at the fundamental level, so everything you learn will remain valuable in whatever process or tool environment you later encounter. We'll treat planning as just another kind of engineering model and use that analogy to offer you practical guidance on:

- 1 Establishing scope boundary
- 1 Tailoring level of detail and structure
- 1 Managing stakeholder and participant expectations
- 1 Dealing with dependencies and constraints
- 1 Mitigating cost, schedule and technical risk
- 1 Controlling change and providing continuous improvement

Who should attend?

This tutorial is ideal for anyone who “owns” or helps establish project plans, but will also be of enormous interest to anyone who is impacted by those plans. Tired of planning that doesn’t account for creative effort, acknowledge embedded risk, or allow realistic resource level and durations? This workshop will show you exactly why those problems arise and how to avoid them.

If bad planning keeps you from doing good engineering, isn’t it about time you learned how to engineer a plan that really works?



Click Here to Learn More or Register

If you cannot attend...

Not to worry... bb7 has created a family of analogy-based courses to give engineers the ability to repurpose the insight they already possess towards many different fields and applications. This workshop is based on one of the most powerful of those new courses – Project Planning for Engineers. Click [here](#) to learn more about the full range of courses.

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4. Discovery Conference Registration - Final Call!

By Ed Rodden II

*Where: Kalahari Resort & Conference Center
Wisconsin Dells, WI*

*When: Thursday May 29 and Friday May 30, 2014
Members welcome on Wednesday, May 28 at BoD Mtg (4pm – 6pm), dinner to follow.*

Early Bird Registration for the conference has expired; however, you can still register until May 19. Fees are \$185 members, \$200 nonmembers, and \$80 for students. Pass this along to your colleagues!!

For payment you can use a Credit card, PayPal, or directly mail us a check.

Online registration and payment:

<http://www.wspe.org/2014DiscoveryConferenceForm01.php>

By attending the presentation, you can earn 15 PDHs, with 2 qualifying for ethics.

Online brochure: <http://www.wspe.org/PDF/2014DiscoveryConferenceBrochure.pdf>

Keynote speakers include WisDOT Secretary Mark Gottlieb, DSPE Secretary Dave Ross, and NSPE President Robert Green.

- 1 I-35W Bridge Failure (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 Ethics presentations

Network breakout sessions, a catered lunch, and an awards ceremony are included.

For each session attended, you will receive a PDH Validation Form which has been approved by the Department of Safety and Professional Services. This form will be signed by an executive officer and the attendee. It should be kept in your professional files in case of an audit.

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5. Earn PDHs at MSOE's PEAK Event!

By Brittney Lynn, Continuing Studies and Outreach at MSOE

Registration is now open for MSOE's PEAK event held on Saturday, June 7th!

Professional Engineers can earn the professional development hours (PDHs) now required for maintaining licensure in Wisconsin by attending a PEAK Mini-Conference. This event is a collaborative knowledge exchange among engineering and technical professionals facilitated by MSOE, with the goal of providing a cost-effective way for engineers and technical professionals to learn about new topics.

Featured sessions include:

- * Ethics in Engineering
- * Intellectual Property Protection
- * Doing Business in China
- * Heat Transfer Fundamentals
- * Lean Manufacturing Simulation
- * How to do Technology Forecasting
- * Radio-Frequency Engineering
- * Adding Value Using Additive Manufacturing
- * Using Digital Oscilloscope to Measure the Frequency Spectrum of a Signal
- * 3-D Scanning Technology
- * Improving Performance & Existing Work Teams
- * ...and more!

[View schedule and register here](#)

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6. Job Openings

WSPE has posted new job opportunities on the Job Board:

http://www.wspe.org/job_board.shtml

Summaries of these postings are as follows:

Sanitary District Supervisor / Civil Engineer

The growing Water/Sewer Utility of the Town of Greenville (pop.10,773) is looking for a civil engineer with supervisory experience to manage its sewer and water assets. This position will oversee a knowledgeable staff of 3 operators, administrative clerk and over \$28 million in capital assets, including 3 Wells, 2 Towers and 2 lift stations. A great opportunity to invest and take ownership of a young Utility located in the dynamic Fox Cities and part of the Grand Chute-Menasha West Sewerage District. The Greenville Utility is located only minutes away from Appleton, the Fox River Mall, and provides service to the Outagamie County Regional Airport, new Fox Valley Tech Public Safety Center, an estimated 3000 residential customers and a large manufacturing base. Good benefit package available and wage DOQ. An application and job description can be downloaded from the Town of Greenville website (townofgreenville.com) under "Hot Topics" or picked up at the Greenville Town Hall, W6860 Parkview Drive, Greenville, WI 54942 between 8:00 and 4:30 PM weekdays. Please submit a cover letter outlining

reasons for interest in this job and unique qualifications, a resume and official application form to the Town Hall address listed above no later than Friday, May 30th, 2014. Questions can be directed to Dave Tebo at 920-757-5151, Ext. 4., or Don Schinke at 920-841-8550.

Town of Greenville is an Equal Opportunity Employer

Storm Water Engineer

The Department of Transportation, Division of Transportation System Development (DTSD) is seeking individuals who are ready to take on a lead role in the delivery of the state's transportation program. Applications are accepted on a continuous basis with the review and integration of new eligible candidates on a biweekly basis.

Storm water Engineer (headquartered in the Bureau of Technical Services in Madison) - Function as the principal department program engineer for storm water management as it relates to statewide multi-modal transportation facilities development, construction, and maintenance activities. Provide engineering leadership and guidance to department staff and consultants on program level storm water management analysis applications and techniques and on other engineering methods which appear to have environmental impacts.

Wisdot is a great place to work! We offer amazing benefits such as a casual office atmosphere, flexible work schedules, ample vacation time, excellent health benefits, and an exceptional employee assistance program that offers a variety of programs and tools to help promote an employee's wellness and health.

Job Duties:

These advanced level positions provide advanced professional engineering expertise in their assigned program/project(s). Positions at this level function as the primary engineer for a specific aspect of a department program/project or function as a program engineer in responsible charge of major projects within an assigned geographic area, or are in responsible charge of multiple complex projects. Engineer positions at this level perform the most complex, difficult, and advanced engineering work which includes multi- and cross-program issues and which often include policy-making responsibilities. Employees at this level have engineering responsibilities that require continually high-level contacts with public and private officials and engineers/engineering consultants on highly sensitive and complex engineering reviews. Due to a broad combination of engineering knowledge being required, assignments are extensive in scope and continually require the incumbent to use independent judgment in making professional engineering decisions. Positions at this level make independent decisions and perform work in response to program needs as interpreted by the employee with little or no review of the work by the supervisor. Positions also participate on project teams.

Special Notes:

A valid Professional Engineer (PE) license is required upon application. Hired candidates must obtain a PE from the State of Wisconsin within three months of employment in the position.

Prior to any appointments for position(s) filled from this recruitment/announcement, candidates may be subject to a comprehensive criminal background check which may include FBI fingerprinting.

Starting annual salary is \$67,258 - \$76,646, pending relative qualifications, plus excellent benefits.

Job Knowledge, Skills and Abilities:

- 1 Leadership skills to include knowledge of team functioning
- 1 Effective written and oral communication skills
- 1 Ability to work with the media, legislators, local officials and the public
- 1 Problem solving techniques
- 1 Ability to interpret and administer contracts
- 1 Ability to direct the activities of a large, diverse group of professional, technical, and administrative staff engaged in diverse work of a technical nature
- 1 Project management skills
- 1 Conflict resolution skills
- 1 Extensive knowledge of engineering principles and practices

How To Apply:

To apply for this position, go to <https://wisc.jobs/public/index.asp> and click "Log In" to access your existing account or to create a new account if you don't already have an account in the system. Once you are logged in, click "Apply Now." You will be asked to provide your personal information, attach a resume and then

complete some exam questions. Once you finalize your exam, you will be sent an email by the system confirming that the exam process has been completed. The responses to your exam will be verified and qualified candidates will receive further consideration.

Materials Engineer (Civil Engineer Transportation Senior)

The Wisconsin Department of Transportation, Division of Transportation System Development, Bureau of Technical Services, Materials Management Section is currently recruiting to fill two Civil Engineer Transportation Senior positions. One vacancy functions as an **Asphalt Materials Engineer**, and the second vacancy functions as a **Materials Lab Coordinator**. Both vacancies are headquartered in Madison at the Truax State Building (3502 Kinsman Blvd).

**This exam may be used to fill similar Materials Engineer positions over the next 6-12 months.

WisDOT is a great place to work! We offer amazing benefits such as a casual office atmosphere, flexible work schedules, ample vacation time, excellent health benefits, and an exceptional employee assistance program that offers a variety of programs and tools to help promote an employee's wellness and health.

Job Duties:

Asphalt Materials Engineer

This position develops policies, specifications and procedures related to the asphaltic pavement program and directs their implementation across the division. The position provides technical support and leadership in regard to asphalt pavement designs, testing and specifications. The incumbent assists the Materials Unit Supervisor in the coordination and oversight of quality verification and quality assurance programs involving the division's regions, consultants, contractors and other external parties. The management of these complex and important programs requires strong communication skills and engineering knowledge. Asphalt program operations have a significant impact upon other department programs, the legislature, the public, local units of government, contractors and industry representatives, the media and other interested and/or affected parties.

Materials Lab Coordinator

This position requires knowledge of ASTM and AASHTO test procedures dealing with asphaltic mixtures, aggregates, binder and soils. This position also requires knowledge of AASHTO laboratory accreditation procedures, policies and requirements, and is responsible for the maintenance and upkeep of laboratory testing equipment, including maintenance, calibration, updates and general upkeep. This position provides technical guidance and expertise for the production and placement of asphaltic mix on construction and maintenance projects, and is responsible for working with industry and department staff in the development and implementation of asphaltic mixture, aggregate and pavement construction specifications.

Special Notes:

Qualified candidates must have graduated from a college or university "ABET accredited" program with a 4-year degree (or Master's) in civil engineering or a related engineering field; OR possess Registration as a Professional Engineer; OR possess an Engineer-In-Training license.

Prior to any appointments for position(s) filled from this recruitment/announcement, candidates may be subject to a comprehensive criminal background check which may include FBI fingerprinting.

Starting annual salary is \$59,502 - \$76,646, pending relative qualifications, plus a great benefits package.

The deadline to apply is 5/4/2014

Job Knowledge, Skills and Abilities:

- 1 Thorough knowledge of the engineering principles and practices applied in the design, construction and maintenance of all types of highways, bridges and related structures.
- 1 Thorough knowledge of materials, methods and techniques used in the design, construction and maintenance of highways, bridges and related structures.
- 1 Knowledge of the procedures and practices applied in the inspection and testing of materials used in highway facilities construction, and the design of these materials.
- 1 Ability to plan and manage the activities of technical staff members involved in complex analytic and testing activities.
- 1 Ability to communicate effectively in the representation of department programs and initiatives, orally and in writing.
- 1 Ability to establish and maintain effective working relationships with

associates, management, other agencies, industry representatives and the public.

- 1 Thorough knowledge of highway laws, codes, standards and specifications pertaining to highway engineering.
- 1 Thorough knowledge of AASHTO testing procedures, protocols, and documentation policies.
- 1 Thorough knowledge of asphalt and aggregates, including the related testing protocols.

To apply for this position, go to <https://wisc.jobs/public/index.asp> and click "Log In" to access your existing account or to create a new account if you don't already have an account in the system. Once you are logged in, click "Apply Now." Apply online with a resume and a cover letter which clearly identifies your education, training, and/or work experience as it relates to:

- 1 Experience with analyzing data and identifying trends/patterns/impacts
- 1 Experience with HMA materials (experience can be from academia or research and/or field or production work and must equal at least 3 years of experience which is beyond a bachelor's degree)

Materials will be evaluated by a panel of job experts and the most qualified applicants will be invited to participate in the next step of the selection process.

Please address questions regarding the application process to Mackenzie Arney, Mackenzie.Arney@dot.wi.gov or (608) 261-6298.

If you are interested in posting a job or your resume on our website, please contact Ed Rodden II at ExecDir@wspe.org or (414)531-1129.

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7. Supporting Organizations: Thank You!

Thank You to our Supporting Organizations!

Silver Level



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON



**WISCONSIN
CONCRETE PIPE
ASSOCIATION**

Bronze Level



Bjorksten | bit 7



a xylem brand



Interested in having your company support WSPE? Take a look at our Supporting Organizations webpage here: <http://www.wspe.org/sponsors.shtml>

Contact Ed Rodden at execdir@wspe.org or (414) 531-1129 for more details about this program.

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8. WSPE Officer Elections and Young Engineer & PE of the Year Awards

The 2014-2015 WSPE officer elections are [HERE!](#)

The Executive Board would like you to consider a position on the ballot. The duties of the positions are outlined below, which include the Executive Board and Practice Divisions.

You have 2 options for casting your votes for WSPE Officers:

1. Complete the short **online ballot** by clicking here:
<http://www.surveymonkey.com/s/JKBDWTT>
2. Download and print the pdf ballot by clicking here:
<http://wspe.org/enews/2014/ExecCommElectBallot.pdf>

You can either email this completed pdf ballot to ExecDir@wspe.org or send it in the mail here:

WSPE Headquarters
PO Box 430
Pewaukee, WI 53072-0430

May 12, close of business is the deadline to cast your vote, so vote today!

The positions allow renewing PEs the opportunity to earn up to 4 PDHS. The Committees meet once a month, with meetings lasting about an hour.

If you are interested or have any questions, contact Ed Rodden II at ExecDir@wspe.org or (414)531-1129.

We also need your votes for **Young Engineer of the Year** and **Professional Engineer of the Year**. Please click the following survey link to cast your vote today! (It won't take longer than a few seconds, we promise:)

<http://www.surveymonkey.com/s/J8CP3Z8>

If you are interested or have any questions, contact Ed Rodden II at ExecDir@wspe.org or (414)531-1129.

WSPE Executive Board (2014 – 2015 Term)

Only those members who are current members of National and their State Society (ies) shall be eligible to serve in the position of President, President-Elect and Vice President of Wisconsin Society. Incumbents will maintain their respective positions if no running mates are determined.

Duties and responsibilities for each Officer are defined as follows:

President

The president shall preside at all meetings of the Society and of the Board of Directors; shall be, ex-officio, a member of all committees; shall appoint chairs and members of all committees; and have general direction of the business of the Society. The President shall exercise supervision over the operations of the executive director, and keep the Board apprised concerning that office.

President-Elect

The President-Elect shall act as president in the president's absence, and shall undertake assignments at the request of the president, the Executive Committee, or the Board. The principle activity of the president-elect shall be an examination of the Society and the development of plans for the following year.

Vice President – Membership Portfolio

In the absence of, or in the case of the inability of the president and president-elect, it shall be the duty of one of the three vice presidents, in order of precedence, to perform all the duties of president. Each vice president shall serve as chair of a Membership portfolio and liaison to a group of chapters as determined by the president.

Vice President – Governmental Affairs Portfolio

In the absence of, or in the case of the inability of the president and president-elect, it shall be the duty of one of the three vice presidents, in order of precedence, to perform all the duties of president. Each vice president shall serve as chair of a Government portfolio and liaison to a group of chapters as

determined by the president.

Vice President – Education Portfolio

In the absence of, or in the case of the inability of the president and president-elect, it shall be the duty of one of the three vice presidents, in order of precedence, to perform all the duties of president. Each vice president shall serve as chair of a Education portfolio and liaison to a group of chapters as determined by the president.

Treasurer

It shall be the duty of the treasurer to protect all funds and records of accounts of the Society, making an annual report of receipts and disbursements to the Society; give such bond, to secure the faithful discharge of duties as may be determined from time to time by the Board. The fee for this bond shall be paid by the Society. At the expiration of the term of office, all books, papers, and money belonging to the Society shall be turned over to the successor treasurer, who shall give the preceding treasurer a receipt therefore.

Secretary

The secretary shall record proper proceedings of meetings and perform such duties as are required by law, or assigned by the Board.

WSPE Practice Divisions Openings (2014 – 2015 Term)

Practice Divisions, comprised of members having common professional concerns and interest, shall operate under the Constitution and Bylaws of the Society. The American Council of Engineering Companies of Wisconsin (ACEC WI) shall be the designated practice division for professional engineers in private practice (PEPP). Operating rules of the practice divisions, and any changes thereto, must have the approval of the Board before becoming effective. The Board may dissolve a practice division after conducting a hearing on the need for such action.

Professional Engineers in Private Practice

Professional Engineers in Government

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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, ctgrow@gmail.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](#).



[Follow us on Twitter](#).

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.

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