

WSPE eNews

A monthly publication from the Wisconsin Society of Professional Engineers

April 2014 Edition

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1. A Stitch in the Ditch

By Matt Regnier, Submitted by Erin Starks of KL Engineering



When KL Engineering joined the Adopt-A-Highway program in the spring of 2013, we had no idea it would be such a great team building experience. We have good diversity in our work crew, from young employees to those whose knees are no longer meant for such tasks!

Like most highway cleanup crews, we have found a wide array of items littering the roadway. The craziest things we have found ranged from whole bumpers to drivers licenses and school IDs to the classic diaper! Our last outing topped the list when we found a snake hiding under some discarded plastic.

It takes less than an hour for our crew of 6-8 volunteers to clean up our adopted segment, just outside of Madison from CTH M to the Byrne Road underpass along NB USH 14. We schedule three annual pickups and have a list of over 20 KL volunteers willing to help out. We put out advance warning signs for safety and often get honks of encouragement from drivers who pass us by.

The Adopt-A-Highway program is always a fun way to bond with our co-workers while performing a good deed for both the community and the environment. We learn interesting things about each other in the process, like who in our office dislikes cute little snakes! Great Intel to have with April Fool's Day upon us!



No snakes were harmed in the taking of this picture! (Snake shown with Matt Regnier and Mike Scarmon)

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2. WisDOT Research Program Update

Wisconsin DOT Research Program updates

WisDOT Research Program [2013 Annual Report](#)

Wisconsin Highway Research Program (WHRP) project

- 1 Investigation and Development of a Non-Destructive System to Evaluate Critical Properties of Asphalt Pavements during the Compaction Process (0092-11-01)

[Final report](#) [Project brief](#)

Policy Research project

- 1 Wood Species and Wood Preservatives for Use in WisDOT Sign Posts (0092-13-15)

[Final report](#) [Project brief](#)

WisDOT videos

- 1 Self-Propelled Modular Transporter (SPMT)
YouTube video: <http://youtu.be/54ZyjwyHdbA>
- 1 Per-Cast Concrete Pavement System
YouTube video: <http://youtu.be/Wv11k4NLVIY>

The Wisconsin DOT Research Program sends out quarterly email updates highlighting the latest reports and briefs produced through its research and other activities. To receive these quarterly updates, or if you need additional assistance, please contact research@dot.wi.gov.

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3. An MBA from MSOE

By Brittney Lynn, Continuing Studies and Outreach at MSOE

Did you know that MSOE has an MBA? Join us for an info session on Thursday, April 24 from 5-6:30pm to learn more about our graduate program offerings including:

- 1 MBA
- 1 Engineering Management
- 1 Engineering

...and more. Sign up here: <http://www.msoe.edu/community/admissions/adult-learner/page/2300/graduate-program-info-session-registration>

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4. Discovery Conference Information - Early Bird Registration Has Begun!

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 begun. Fees are \$175 members, \$190 nonmembers, and \$75 for students. Early Bird Registration ends on Friday April 14, which is when regular registration fees will be in effect.

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.

Keynote speakers include WisDOT Secretary Mark Gottlieb 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. Breast Cancer Awareness Walk

By Ed Rodden II

Support Breast Cancer Awareness by joining WSPE in a walk
Saturday May 3, 2014 at 10am

WSPE is considering putting a team together to walk the 5 miles as described below.

Thank you for your consideration in the Making Strides Against Breast Cancer walk. This movement is the largest network of breast cancer awareness events in the nation, uniting nearly 300 communities to honor breast cancer survivors, raise awareness about the disease, and fund the fight to end it forever through a non-competitive 3-5 mile walk.

The role of a Team Leader is vital: WSPE is considering creating a group of any size to walk and raise money in support of our local Making Strides Against Breast Cancer event.

http://makingstrides.acsevents.org/site/TR/MakingStridesAgainstBreastCancer/MSABCFY13Midwest?fr_id=56044&pg=entry

If you are interested, contact Ed at execdir@wspe.org (414)531-1129. Families are welcome. With enough interest, WSPE will set up a team and ask others to join us.

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6. Job Openings

By Ed Rodden II

WSPE has posted new job opportunities on the Job Board:

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

Summaries of these postings are as follows:

SENIOR PROJECT ENGINEER

Company Name: Standard Process

Position Title: Senior Project Engineer

Location(s): Palmyra, Wisconsin, United States, 53156

Producing concentrated whole food supplements available exclusively through health care professionals, Standard Process has been a leader for more than 80 years in the nutritional products industry by validating the safety, efficacy, and cost effectiveness of dietary supplements. We are currently looking for a new team member at our corporate headquarters in Palmyra, Wisconsin to join us in the following role:

Senior Project Engineer

Introduce and provide new technology and innovation for manufacturing processes. Responsible for coordinating engineering projects from feasibility through construction management. Includes cost estimates, project schedule, conceptual design, bid package development, equipment procurement, construction contracts, contractor coordination and management, and project closure. See full description for additional details by clicking the link below.

We offer a competitive salary and benefits package. For consideration, please apply [online](#).

ELECTRONIC ENGINEER

If you are interested in this position, or know someone who is, please reply in confidence to: resumes@standardimaging.com

Founded in 1989, Standard Imaging has become a leading supplier of radiation calibration and quality assurance instruments for health care. Our product and service solutions support a broad range of radiation treatment applications, including dosimetry, brachytherapy, intensity modulated radiation therapy, image guided radiation therapy, and stereotactic radiosurgery.

Here at Standard Imaging we strive to create an atmosphere that manifests personal and professional excellence. Each component of our business, whether it is our products, our employees or our distributors, is subject to continual evaluation and evolution so that we may better serve our customers.

We hope that this mentality results in doctors, physicists and therapists having the most precise and practical tools available at their disposal, allowing them to focus on what truly matters - treating cancer.

Hours/week: 40 hours/week
Reports to: Engineering Director
Employment Status: Full-time, regular

Job Responsibilities & Authority

- 1 Design and develop electronic medical devices consistent with national and international regulatory compliance requirements, such as EN/IEC: 60601 (Electrical Safety, EMI/EMC, Software), 60731 (Reference Grade), 980 (Symbols) and 475 (Alarms).
- 1 Assemble and test electronic sub-assemblies to complete functional prototypes for assisting in product development.
- 1 Develop product documentation including electrical schematics, pcb layouts and initial bills of material for electronic products consistent with internal ISO 9000 requirements.
- 1 Participate in the creation of product design input/output specifications, manufacturing techniques, and validation of new products.
- 1 Specify electronic components, test equipment, and software/firmware development systems required for new product development.
- 1 Coordinate activities with other engineering functions, including Production, Manufacturing Support and Marketing.
- 1 Coordinate support for outside electronic assembly purchasing through contract manufacturers by providing current documentation such as electronic bills of material and assembly instructions.
- 1 Serve as technical liaison for Sales and Customer Service, especially for direct use and applications of products.
- 1 Serve as repair/service person for repairs beyond the scope of current service department.

Job Education and Qualification

- 1 B.S. degree in Electrical Engineering or equivalent.
Four to eight years' experience in the design and development of medical electronic devices with measuring function and/or precision motion control.
- 1 Fluent in the use of pcb design software, specifically the Mentor Graphics PADS PCB Design suite.
- 1 Effective interpersonal communication skills when interacting with co-workers, management, consultants and customers.

- 1 Effective documentation skills including written work that is organized logically, conveys intended meaning with clarity and is grammatically correct.
- 1 Systematic problem solving/resolution skills.
- 1 Working knowledge of medical physics and EMC/EMI/Safety testing for medical devices a plus.

MEGA/MAJOR PROJECT COORDINATION ENGINEER

The Wisconsin Department of Transportation (WisDOT), Division of Transportation System Development, Bureau of Project Development, Project Services Section is currently recruiting to fill an advanced, professional engineer position that serves as a coordinator and facilitator of mega and major civil engineering projects for WisDOT. This position is located out of the Hill Farms State Office Building in Madison.

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:

This position is the liaison between the Major Project Teams and the division, the Federal Highway Administration and other state agencies. This position is responsible for ensuring that all mega and major projects meet project development standards.

This work involves independently facilitating, guiding and supporting various engineering and administrative activities involved in the many phases of improvement projects, from development of completed plans, specifications and estimates that comply with current environmental laws and regulations to the final completion of the various construction projects. These actions requires a thorough knowledge of the engineering aspects, policies, procedures, and processes required for project development. This position may communicate with other State and Federal agencies, public officials, and the general public in regard to the Major projects.

Special Notes:

A valid driver's license and 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.

The deadline to apply is 4/6/2014.

Job Knowledge, Skills and Abilities:

- 1 Extensive knowledge of the engineering principles and practices applied in the location, design, construction and maintenance of all types of highways, bridges and related structures.
- 1 Extensive knowledge of highway laws, codes, standards and specifications pertaining to highway engineering.
- 1 Extensive knowledge of materials, methods and techniques used in the design, construction and maintenance of highways and highway structures.
- 1 Considerable leadership skills.
- 1 Skill to speak effectively, in public and in groups, to explain the Department's policies and procedures, and to express ideas clearly and concisely, both orally and in writing.
- 1 Thorough knowledge of the Facilities Development Manual.
- 1 Thorough knowledge of the Standard Specifications for Road and Bridge Construction and the WisDOT Construction and Materials Manual.
- 1 Skill to establish and maintain effective working relationships with various DTSD Bureaus/Offices, Region Office personnel, the Federal Highway Administration, other agencies and the public.
- 1 Considerable knowledge of conflict resolution techniques.
- 1 Extensive knowledge of the entire range of highway improvement concepts and practices.
- 1 Extensive knowledge of construction project management and contract administration.
- 1 Extensive knowledge of construction methods and equipment and the sequencing of construction operations.

How To Apply:

To apply for this position, go to <http://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 an exam. 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.

SUPERVISOR CIVIL ENGINEER

This position is also open to All US Citizens.

Job Title: Supervisor Civil Engineer
Department: Department of the Army
Agency: U.S. Army Corps of Engineers

SALARY RANGE: \$69,497.00 to \$90,344.00 / Per Year
OPEN PERIOD: Monday, March 17, 2014 to Monday, March 31, 2014
SERIES & GRADE: GS-0810-12
POSITION INFORMATION: Full Time - Permanent

DUTY LOCATIONS: 1 vacancy in the following location: Kewaunee, WI
WHO MAY APPLY: United States Citizens

SECURITY CLEARANCE: Not Applicable
SUPERVISORY STATUS: Yes

About the Position:

Serves as the Chief of Construction & Survey Section for the Lake Michigan Area Office (LMAO) Kewaunee Sub Office, Engineering and Technical Support Division, Detroit District, primarily responsible for Corps of Engineers initiated projects under various USACE Civil Works (CW) Continuing Authorities Programs (CAP) located in Kewaunee, WI. Section Chief with supervisory duties for construction personnel and hydrographic survey crew; occasional team leader for interdisciplinary project teams. Serves as Contracting Officer Representative (COR), providing office engineering support for projects throughout the wide geographical area assigned to the LMAO Sub Office. Permanent Change of Station (PCS) allowances may be authorized subject to the provisions of the Joint Travel Regulations and an agency determination that a PCS move is in the Government interest. This is an Army Acquisition, Logistics and Technology Workforce position. Selectees must meet position requirements for certification at level I within 24 months on entrance on duty.

AGENCY CONTACT INFO:

Cindy S. Berg
Phone: (502)315-6158
Email: CINDY.S.BERG@US.ARMY.MIL

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

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7. WSPE Supporting Organizations: Thank You!

Thank You to our Supporting Organizations!

Silver Level



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON



**WISCONSIN
CONCRETE PIPE
ASSOCIATION**

Bronze Level



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. Calling for WSPE Officers

The upcoming officer elections are near. 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.

We are looking for individuals who would like to run as an officer and serve on the Executive Board and Board of Directors for the 2014-2015 fiscal year. The term runs from July 1, 2014 through June 30, 2015. If selected by majority vote, you have the opportunity to earn up to 4 PDHS. The Committees meet once a month, with meetings lasting around 90 minutes. They are held via conference call but there will be opportunities to meet in person.

If you are interested or have any questions, contact Ed Rodden II at ExecDir@wspe.org.

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 Image & Marketing 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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9. Proposed Ballot - 2014-2015 WSPE Executive Officers

You can download a pdf of the Proposed Ballot for the 2014-2015 WSPE Executive Officers by clicking here:

<http://wspe.org/enews/2014/ExecCommElectBallot.pdf>

You can write in your (or someone else's) name in any position other than President, President-Elect, and National Delegate. If you are interested in any of these positions, please contact Ed Rodden for consideration for the next fiscal year.

In accordance with WSPE Constitution Article VI and Bylaws, 7.1, 11.5, 11.6, 11.7, this Ballot is distributed to qualified members of the Wisconsin Society of Professional Engineers.

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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.