

ASCE Newsletter

Central Ohio Section

February, 2013
Volume 17, Issue 6

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ENGINEERS WEEK LUNCH

DATE: Thurs. February 21, 2013 - 11:30 A.M.
Registration - 12:00 P.M. Lunch & Presentation

LOCATION: Bridgewater Center, 10561 Sawmill Pkwy,
Powell OH 43065

SPEAKER: **Dr. Ahmed Naumann** - National Dean for the
College of Engineering and Information
Sciences, Devry University

TOPIC: "CELEBRATE AWESOME"

At Devry University's College of Engineering, Dr. Naumaan is responsible for the leadership and oversight of the college and steering the course of degree programs, including curriculum management, course development, and culturing academic excellence. He has also served as Dean for the School of Information Systems and Technology at Kaplan University, Associate Dean for Engineering at NTU School of Engineering and Applied Science at Walden University, and as faculty member in Computer Science and Engineering department of the University of Minnesota – Twin Cities.

In Practice, Dr. Naumaan has worked in industry as an engineer and as a manager in product development and in research on solid-state sensors and integrated optical devices. He has been a member of organizing committees for several national and international conferences and workshops, served as guest editor for the IEE CHMT Society on integrated optics, and is himself a patent holder.

Dr. Naumaan received his PH.D. and MS in electrical engineering from the University of Cincinnati and his BE in electronics from the University of Karachi in Pakistan.

COST: \$25 "Early Bird" Registration by Feb. 8, 2013. \$35 late registration. Students - FREE - Bring your resume!

REGISTER: Register online at <http://www.fccospe.org/>. Payment in advance via credit or debit cards is strongly encouraged. Registrations at the door (walk-ins) will be accommodated until seating capacity is reached, and payment via credit or debit cards is again strongly encouraged.



CELEBRATE AWESOME

...and the world's largest professional association of engineers, architects, and other engineering professionals. The ASCE is a leading voice in the engineering profession, and is committed to the advancement of the engineering profession through research, education, and the promotion of the public good. The ASCE is a member of the National Council of Engineering and Scientific Professionals (NCEESP) and the National Society of Professional Engineers (NSPE). The ASCE is also a member of the International Federation of Engineering Organizations (IFEO) and the International Union of Pure and Applied Chemistry (IUPAC). The ASCE is a leading voice in the engineering profession, and is committed to the advancement of the engineering profession through research, education, and the promotion of the public good.

Engineers Week 2013

February 17-23

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LETTER FROM THE PRESIDENT

Central Ohio Section Members,

The Section board is looking for ways to better serve the Section members. If you have any ideas on how the Section can help you or the general membership, please let one of the board members know.

The Ohio Council of Sections is continuing their efforts to publish an updated Ohio Infrastructure report card. If you would be interested in helping with this effort, please contact Kevin Carpenter. His contact information can be found here: <http://www.asce.org/Regions-Sections-Branches/Region-3/Leadership/Leadership/>

If you are a younger member (under age 35) and are interested in getting more involved with the Section, the Younger Members group is hosting an array of activities this year. Find out more by

enrolling in the Younger Member email list here: <http://www.centralohioasce.com/e-mail>

If you or someone you know is looking for a job, the ASCE Central Ohio Section has posted links to our newsletter sponsors company employment pages here: <http://www.centralohioasce.com/employment>.

The company logos at the end of the newsletter are also embedded with hyperlinks directly to the respective company's employment websites.

Regards,
Adam Rich, P.E., M.ASCE
President – ASCE Central Ohio Section
President@CentralOhioASCE.com

YOUNGER MEMBER GROUP SOCIAL

What: Younger Member Social

When: Thursday, February 7, 2013

Starts at 6:00 PM

Where: Buffalo Wild Wings - Bethel Road

5240 Bethel Center Mall

Columbus OH 43220

The Younger Member Group will be sponsoring a social event at Buffalo Wild Wings on Bethel Road on Thursday, February 7, 2013 starting at

6:00 PM. We will be playing buzztime trivia and appetizers will be provided. I strongly encourage you to come out to the event – we are hoping to find some new Younger Members that want to get more involved as we try to plan some new educational outreach and community service projects.



NCEES CIVIL ENGINEERING SURVEY

NCEES is currently seeking licensed civil engineers to participate in a professional activities and knowledge study, or PAKS, for the PE Civil exam. The results of this study will be used to update specifications for the exam, which is used throughout the United States for licensing purposes. Click [HERE](#) to take the survey.

NCEES requires a cross section of licensed professional engineers practicing civil engineering—including those working in consulting, the public sector, and academia—to complete an online survey about the tasks and knowledge required of a licensed civil engineer with 4 to 6 years of experience to protect the health, safety, and welfare of the public. The survey can be completed in about an hour. Responses must be received by February 25, 2013.

“These studies help NCEES ensure its licensing exams remain relevant to current professional practice,” explained Director of Exam Services

Tim Miller, P.E. “The value of this PAKS depends on the number of people who participate, so NCEES is eager to get a large response from P.E.s across all areas of civil engineering.”

Please note that you do not have to complete the survey in a single session. If you cannot finish the entire survey in one sitting, click the Save button. Once you have clicked Save, the software will produce a unique URL (link) to access the survey containing your saved responses. You will not be able to return to the questions before the page you saved upon reentering the survey, so please be sure to respond to all questions on the previous pages before you save and exit. Record this new link by copying and pasting it to a notepad or sending yourself an email to return to the survey at a later time. If you do not re-access the survey using the saved link, your responses will be lost, and you will need to resume the survey from the beginning.

FREE WEBINAR - STORMWATER BMPs

What: Free Continuing Education Webinar - 1.5 PDH

When: Tuesday, March 12, 2013
11:30 AM - 1:00 PM

Bring your own lunch

Where: Korda/Nemeth Engineering, Inc.
1650 Watermark Drive, Suite 200
Columbus, OH 43215

Topic: **Stormwater BMPs: What Works, What Doesn't, and What About Maintenance**

RSVP: To newsletter@centralohioasce.com by Friday, March 8, 2013.



*Open only to Central Ohio Section Members.

*Seating is limited to the first 25 people.

As water quality regulations continue to strengthen, it is more important now than ever that civil engineers specify stormwater quality Best Management Practices (BMPs) that target specific pollutants of concern to maximize overall benefits. This webinar provides an overview of a wide-range of BMPs from wet detention basins, first-flush capture, filtration and infiltration methods, to stormwater wetlands. Commercially available systems are also addressed and critical information on long-term effectiveness and maintenance requirements of various BMPs is discussed. Participants also learn about features of International BMP database and portions most applicable for public agency, academic, and consulting engineers.

This webinar distills the latest research on the effectiveness of stormwater quality BMPs and

discusses the various types of BMPs as well as manufactured systems that are effective for different situations. Participants learn about the pollutant removal efficiencies of various BMPs, how to select BMPs for specific pollutant removal, and long-term maintenance requirements for various BMPs.

Webinar Outline

- Types of BMPs
- Manufactured systems
- Pollutant removal efficiencies
- Selection of BMPs
- International BMP database
- Maintenance requirements

Learning Outcomes/Benefits

- Gain exposure to up-to-date research on effective post-construction stormwater BMPs
- Understand the role of vegetation in providing stormwater quality treatment
- Discover how to remove sediment/TSS, heavy metals, nutrients, and bacteria with BMPs
- Learn to select post-construction stormwater BMPs for specific pollutant removal
- Enhance knowledge of cost-effective BMPs
- Become familiar with recommended maintenance practices for stormwater BMPs

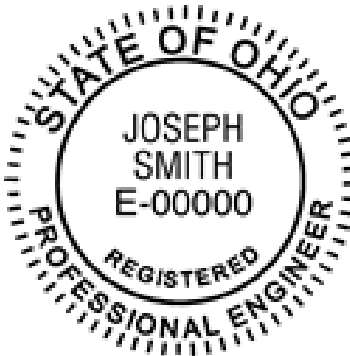
YOUR PATH TO PROFESSIONAL LICENSURE

What: Free Presentation from ASCE

When: Wed., February 20, 2013 - 6:30 PM

Where: Webinar

What better time to learn about professional engineering licensure than during National Engineers Week 2013! This Webinar is designed for civil engineering students and Younger Members to convey the importance, value, and benefits that licensure can bring to



one's engineering career. The presentation will describe the step-by-step process to professional licensure and cover the basics of the FE and PE examinations relevant to civil engineering students and graduates. In addition to conveying the value of licensure to students and Younger Members at a time when they are making preliminary, but important, decisions about the direction they want their careers to take, this Webinar contains several career profiles of professionals at nationally recognized firms who undoubtedly provide targeted information about how licensure has played a role in their success.

To register for the webinar or for additional information, please click [HERE](#).

T . H . W U D I S T I N G U I S H E D L E C T U R E

What: T.H. Wu Distinguished Lecture

When: Monday, April 15, 2013

4:00 PM - 5:00 PM

Where: The Ohio State University

Room 100 Scott Lab

201 West 19th Avenue



Topic: **From Reliability to Systems Engineering: The Evolution of Risk Analysis and Assessment in Civil Works**

RSVP: To scott.30@osu.edu or 614-292-3533

Cost: Free

PDH: A certificate for 1 PDH will be provided

*Sponsored by the Department of Civil, Environmental, and Geodetic Engineering - The Ohio State University

The late 20th C. saw the introduction of a variety of new analytical methods for evaluating risks posed by and to heavy civil infrastructure. The distinguishing feature of this evolving set of new methodologies was that they brought probabilistic thinking to bear in grappling with uncertainty and risk, and employed new techniques in operational research, statistics, and physics-based failure modeling, the development of which had been accelerated by the exigencies of WWII. Now, 50 years later, it is time to catalog the revolutionary

insights gained by this 'new approach.' Many of these insights today are thought to be no more than common wisdom by younger engineers, but this was not the case when first they began to appear. It is also time to benchmark the ongoing—even accelerating—pace of risk analysis applications in civil engineering and natural hazards practice. A number of examples will be provided from practice.



Professor Baecher is a Professor of Engineering at the Glenn L Martin Institute at the University of Maryland. He holds a BSCE from UC Berkeley, and ScM and PhD Degrees from MIT. Dr. Baecher's principal area of work addresses the reliability of civil infrastructure and project risk management, especially in geotechnical and water resources engineering. He is co-author with J.T. Christian of, *Reliability and Statistics in Geotechnical Engineering* (Wiley 2003), with D.M.D. Hartford of, *Risk and Uncertainty in Dam Safety* (Thos. Telford 2004), with K. Frolov of, *Protection of Civil Infrastructure from Acts of Terrorism* (Springer 2006), and with N.A. Makhutov, of *Comparative Analysis of Technological and Intelligent Terrorism Impacts on Complex Technical Systems* (IOS Press 2012).

ASCE CONTINUING EDUCATION SEMINARS

ASCE Geographic Services is pleased to provide Continuing Education seminars and workshops. These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department.

Seminar/Workshop	Date	City / State
Introduction to Dam and Levee Safety, Evaluation and Rehabilitation	February 7 - 8, 2013	Chicago, IL
Seismic Loads for Buildings and Other Structures	February 7 - 8, 2013	New Orleans, LA
Wetlands and 404 Permitting	February 7 - 8, 2013	New Orleans, LA
Leadership Development for the Engineer	March 7 - 8, 2013	Chicago, IL
Stormwater BMPs That Work: Effective Analysis, Design and Maintenance	March 7 - 8, 2013	Chicago, IL
Aluminum Structural Design with the 2010 Aluminum Design Manual	March 21 - 22, 2013	Chicago, IL
How to Start, Build and Run a Forensic Engineering Practice	March 21 - 22, 2013	Chicago, IL
Wind Loads for Buildings and Other Structures	March 21 - 22, 2013	Cincinnati, OH

2012 - 2013 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday February 21, 2013 Lunch	Engineers' Week - Celebrate Awesome	All	Bridgewater Conference Center	Engineering Week Committee
Thursday March 14, 2013 Lunch	Remediation Utilizing GIS	ASCE	TBD	Mark Siedelmann and David Alvarez
Thursday March 28, 2013 Lunch	ASCE Annual Seminar: "Design and Construction of Steel Sheet Piling Structures"	ASCE	WD Partners, Dublin	Carlos Vazquez (ASCE)
Tuesday April 16, 2013 Dinner	OSU/OU Student Chapter & President Elect	OSU / OU / ASCE	Ohio University	Bob Redfield / Dr. Carolyn Merry
Wednesday April 17, 2013 Lunch	ASCE National President Elect - Randy Over	OSU / OU / ASCE	The Ohio State University	Bob Redfield / Dr. Carolyn Merry
Thursday May 16, 2013 Lunch	Engineers Without Borders (EWB) / Awards	ASCE	TBD	Coordinator: Dave Pritchard - Awards: Kevin Carpenter
T.B.D. June, 2013 Dinner	2013-2014 Planning Meeting	ASCE	Tommy's Pizza, Dublin, Ohio	Mark Siedelmann (ASCE)
Friday June 21, 2013 Lunch/Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk (ASCE)

ASCE news ONLINE PUBLICATION



As a reminder, *ASCE News - The Newspaper for Members of the American Society of Civil Engineers*, is published in a digital format only, part of ASCE's commitment to sustainability and fiscal responsibility.

The digital edition is "published" and made available for viewing and download by ASCE members each mid-month at the following link: <http://www.asce.org/ascenews/>.

By discontinuing the newspaper's print edition, ASCE furthered its commitment to sustainable publishing, reduces printing and mailing costs, and continues to advance its electronic publishing efforts.

KEEP UP TO DATE

Join Our E-Mail List!
 Stay up to date with current news - go to <http://centralohioasce.com/e-mail> .
Web: www.centralohioasce.com
E-Mail: asce@centralohioasce.com

BOARD MEETING

*Our Next Board Meeting Will Be February 28, 2013.
 11:30 A.M.
 Location: EDG, Inc.*

EMPLOYMENT OPPORTUNITIES

As a service to our members and colleagues who may be seeking employment opportunities, we have provided links directly to *Human Resources* or *Careers* pages on the company website below. Please click any of the company logos to visit the site. We thank the companies below for their support of the Central Ohio Section of ASCE.

The ASCE National website also provides employment assistance with hundreds of job

postings and additional resources. Please click the image to the right to visit the webpage.



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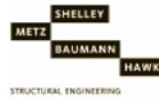
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2013 Seminar
WD Partners
7007 Discovery Blvd
Dublin, Ohio 43017
(Map enclosed)

Thursday, March 28, 2013
8:00 AM to 5:00 PM



Earn 7.0
PDHs!

Design and Construction of Steel Sheet Piling Structures
Earn 7.0 Professional Development Hours (PDH)!

**DESIGN AND CONSTRUCTION
OF STEEL SHEET PILING
STRUCTURES SEMINAR**

Richard Hartman, Ph.D., P.E.
Hartman Engineering

The Design and Construction of Steel Sheet Piling Structures Seminar is a one day class covering topics ranging from design concepts, to practical field problems, through recent product advancements in the design and manufacturing of steel sheet piling.

Who should attend? Engineering consultants, project managers, construction managers, and others interested in learning more about recent advancement in the design, layout and construction of steel sheet piling Structures.

Speaker

Richard Hartman, Ph.D., P.E., is a leading international expert in the design and construction of steel sheet pile structures. Dr. Hartman is licensed as a professional engineer in 38 states and has over 40 years of experience in the subject. For the past 15 years he has been involved in the research and design of new sheet pile sections and, based on that research, holds four patents for sheet piling sections.



Seminar Includes: Course Reference Materials, Certificate for 7 Professional Development Hours (Seminar is IACET certified for 0.7 Continuing Education Units), Breakfast, Lunch and Two Breaks.

Format: One Day Seminar, Business Casual Attire

After registering please contact Richard Morales (678-714-6730 x103 or RMorales@LBFoster.com with any questions about Steel Sheet Piling you want answered or discussed and we will attempt to work them into the seminar.



Registration

One registrant per form. Please duplicate this form for additional registrants.

ASCE Members: \$ 200.00
Non-Members: \$ 250.00
Students: \$ 50.00
Registration after March 2, 2013: \$ 300.00

Fee includes morning breakfast, lunch, break refreshments, and parking.

The method of payment is online at www.centralohioasce.com/ by March 22, 2013. Any Checks should be made payable to Central Ohio ASCE.

Please register and pay [online](#) with a credit card. **Registration is due by 4 PM on Friday, March 22, 2013.** Registration fees may still be required for no-shows and registrants canceling after March 22, 2013.

Make checks payable to: *Central Ohio ASCE*

Carlos Vazquez, WD Partners, Inc.
7007 Discovery Blvd, Dublin, OH 43017
Telephone: (614)634-7132
Carlos.Vazquez@WDPartners.com

Name _____

Company _____

Address _____

City _____

State _____ Zip _____

Phone _____

e-mail _____

Choice of lunch will be beef, chicken or vegetarian. Please specify preference or any special dietary needs.



Schedule

- 8:00 - 8:30 Registration/Breakfast
- 9:00 - 9:30 Design parameters, layout, and construction considerations for cellular cofferdams
- 9:30 - 10:00 Design and construction considerations for bulkheads, open cell designs and combination walls
- 10:00 - 10:15 Break
- 10:15 - 12:00 Design and construction considerations for cofferdams and trenches.
- 12:00 - 1:00 Lunch Break
- 1:00 - 1:45 Examples of failures, discussions of the causes, and suggestions to prevent them.
- 1:45 - 3:30 Properties of steel sheet piling, changes in steel pile manufacturing
- 3:30 - 3:45 Break
- 3:45 - 5:00 Discussion on concerns regarding performance, transverse loads, stresses in sheet piling, and redesign of sheet piling sections. Questions, answers and conclusions

Directions and Map

DIRECTIONS TO THE EVENT:

WD Partners, Inc.
7007 Discovery Blvd.
Dublin, Ohio 43017
Phone: (614) 634-7100

From the North:

Take I-71 South to I-270 W toward Dayton. Take exit 17B to merge onto OH-161 W toward Marysville. Take the exit toward Avery Muirfield Dr./Dublin. Turn right onto Avery-Muirfield Dr./Dublin. Turn right onto Perimeter Dr. (Not Perimeter Loop). Turn left onto Discovery Blvd.

From the South:

Take I-71 North toward Columbus. Take exit 101 to merge onto I-270 W toward Dayton. Take exit 17B to merge onto OH-161 W. Take the exit toward Avery-Muirfield Dr./Dublin. Turn right onto Avery-Muirfield Dr. Turn right onto Perimeter Dr. (Not Perimeter Loop). Turn left onto Discovery Blvd.

