

ASCE Newsletter

Central Ohio Section

March, 2013
Volume 17, Issue 7

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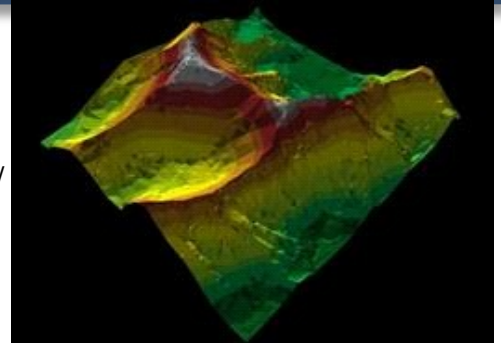


MARCH LUNCHEON

DATE: Thurs. March 14, 2013 - 11:30 AM Registration
12:00 P.M. Lunch & Presentation

LOCATION: The Fawcett Center - Hancock Room,
The Ohio State University, 2400 Olentangy
River Road, Columbus, OH 43210

SPEAKER: **David Alvarez, PCMS, GISP** -
Environmental Scientist/GIS Specialist
FBP, Department of Energy



TOPIC: **Geospatial Integration for Remediation and D&D Project at PORTS**

The Portsmouth Gaseous Diffusion Plant (PORTS) was constructed by the United States Atomic Energy Commission to provide enriched uranium for the nation's nuclear defense system and later for use in commercial nuclear power reactors. The plant enriched uranium from 1954 until 2001. Fluor-Babcock & Wilcox (FBP) under the supervision of the DOE started the process of the demolition and remediation of the remaining structures including the gaseous diffusion process buildings and remaining support facilities.

The use of Geographic Information Systems (GIS) has played a critical role since the beginning of the remediation and Decontamination and Decommissioning (D&D) part of the project. This presentation will give an overview of the challenges to implement and develop an enterprise GIS that can serve the environmental/remediation, engineering and maintenance groups. Furthermore it will show the current use and future implementations of geospatial technologies at the site to achieve a more integrated GIS. This presentation will also show how data sharing/standardization are playing a key role at the site.

MENU: Box lunches - California Club Chicken wrap and Roast Beef with Cheddar

CPD: A certificate for one (1) Continuing Professional Development (CPD) hour will be issued.

COST: \$20 ASCE Members & Guests, \$15 ASCE Life Members, \$10 Students

REGISTER: **Registration is due by 5:00 PM on Mon., March 11.** Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. To register contact Michael Navabi: 614-839-0250, or register@centralohioasce.com

PAYMENT: The preferred method of payment is online (click [HERE](#)) before the registration deadline. Payment on the day of the event is available by cash or check payable to Central Ohio ASCE.

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LETTER FROM THE PRESIDENT

Central Ohio Section Members,

I would like to start off this month by thanking Cheryl Shafer, P.E., PMP for her several years of dedication and effort as the Ohio State ASCE student chapter practitioner advisor. She has been instrumental in making sure the chapter has stayed active and maintained consistency throughout the years. This school year will be her last year in this position.

If you would be interested in becoming the Practitioner Advisor for the OSU student chapter please let the Board know.

The section has been continuing our program to help our members earn PDH's for free. Companies can volunteer to host an ASCE webinar at their office and allow section members to attend. The section will cover the costs of the webinar and will handle coordination of attendees. Keep an eye out for these events and let us know if your company would be willing to host a webinar.

Did you know that ASCE hosts a national Engineering Salary in coordination with ASME? If you have never participated, I would highly encourage it. It is completely anonymous and participating once a year helps keep the data current. Here is a link to the website.

https://asce.gallup.com/psitep/!stmenu_template_main

After completing the survey, salary information for you geographical area and career level are provided for free. The Central Ohio Section has access to the complete 2012 salary survey report. This report can be used by section members upon request.

I look forward to seeing everyone at the March luncheon.

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

FREE WEBINAR - LRFD FOR DRILLED SHAFTS

What: Free Continuing Education Webinar - 1.5 PDH

When: Monday, April 15, 2013
 11:30 AM - 1:00 PM
 Bring your own lunch

Where: E.L. Robinson Engineering
 1801 Watermark Drive, Suite 310
 Columbus, OH 43215

Topic: **Load and Resistance Factor Design (LRFD) for Geotechnical Engineering Features: Drilled Shaft Foundations**

RSVP: To newsletter@centralohioasce.com by Friday, April 12, 2013.

*Open only to Central Ohio Section Members.

*Seating is limited to the first 25 people.

This webinar concentrates on drilled shaft foundations - often a technically sound and cost effective choice where a deep foundation solution is appropriate based on site conditions, applied loads, project schedule, and performance requirements. The LRFD platform offers a rational framework for consideration of drilled shaft systems. The webinar will use the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications as a basis for the technical content, articles Section 10.5 and 10.8.

The webinar will include discussion on the terminology and construction of drilled shafts,



identification of limit states and resistance factors, development and use of axial resistance charts, concept of mobilized resistance, group efficiency factors for evaluation of axial resistance of shafts in groups, p-multipliers for evaluation of lateral resistance of shafts in groups, redundancy, evaluation of settlement of shaft groups, use of construction point concept, uplift resistance, consideration of extreme event limits state such as scour and seismic events, and typical structural detailing. The webinar will assume that the participant has a basic working knowledge of design and construction of drilled shafts.

Webinar Outline

- Terminology and construction
- Failure modes and limit states
- Resistance and resistance factors
- Axial resistance charts
- Lateral resistance
- Extreme events
- Typical structural detailing

Learning Outcomes/Benefits

- Learn basics of LRFD-based analysis of drilled shaft foundations
- Continue building on the knowledge gained from previous LRFD webinars
- Examine the possibilities and benefits of improved communications between geotechnical and structural specialists for drilled shaft foundation design

A W A R D N O M I N A T I O N S

In preparation for the upcoming awards season, we are seeking nominations for the categories described below.

OUTSTANDING CENTRAL OHIO SECTION MEMBER

Presented by the Central Ohio Section, this award is presented annually to an outstanding member of the Central Ohio Section. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Member of Central Ohio Section in good standing.
2. Has made a significant contribution to the Section through participation in the activities of the Section.
3. Promotes a good image of the Section and its members through their participation and example.



OUTSTANDING CIVIL ENGINEER OF CENTRAL OHIO

Presented by the Central Ohio Section, this award is presented annually to an outstanding civil engineer who doesn't have to be an ASCE member. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Practices or teaches civil engineering in Central Ohio.
2. Must have made a significant contribution to civil engineering profession during the last year.
3. One who exemplifies the public image and perception of the civil engineer and its profession.

2013 OHIO OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT AWARD

Presented by the Ohio Council of ASCE Sections, this award is given annually to a Civil Engineering project, not an individual or firm, to recognize the contribution of the many engineers who have worked on the project. The award is part of the [ASCE National OCEA Program](#).

Selection is based on how the project demonstrates the application of civil engineering skills and its contribution to civil engineering progress and mankind. The project's potential adverse effects will be considered. Entries should look frankly at the project's problems, technical and otherwise. Judges will consider the following criteria:

1. Contribution to the well-being of people and communities,
2. Resourcefulness in planning and in the solution of design problems,
3. Pioneering use of materials and methods,
4. Innovations in construction, and
5. Impact on the physical environment, unusual aspects, and aesthetic values.

Additional eligibility requirements, submittal guidelines, and deadlines may be found soon on the Ohio Section website at <http://www.ohioasce.org/OCEA>. Deadline for nominations is 5:00 PM, Friday, April 5, 2013.

P C I 2 0 1 3 D E S I G N A W A R D S

The Precast/Prestressed Concrete Institute (PCI) is now accepting entries for its 2013 Design Awards competition recognizing design excellence, innovation, and construction quality using precast concrete. Entries are accepted in two primary categories: buildings and transportation structures. Within each primary category there are several subcategories. Buildings examples include commercial and entertainment, institutional, housing and residential, industrial and warehouse, and custom solutions. Transportation examples include bridges (new, rehabilitated, and non-highway) and special transportation solutions. In addition to these best-in-

class awards, special awards will be given for industry advancement, sustainable design, and the best all-precast concrete structure or solution.

Any structure in the United States, Canada, or Mexico that has been completed within the last three years and is substantially constructed using precast concrete manufactured in a PCI-Certified or CPCI-Certified plant is eligible. Entries are made electronically and should be submitted by the architect or engineer of record. The deadline to submit a project for consideration is May 20, 2013. Winners will be announced in late July 2013. There is no entry fee.

2 0 1 3 G E O H A Z A R D S T E C H F O R U M

The 2013 Annual Technical Forum hosted by James Madison University located in Harrisonburg, VA , July 30 to August 1, 2013, presents opportunities for sponsorships and exhibitors, and invites abstracts: see details on website.

For information or questions concerning conference sponsorships and exhibition space, please contact Teresa Buckland (304) 696-3568,

buckland@marshall.edu . The forum will include a pre-conference field trip and workshop on July 30, 2013.

2013 Technical Forum: Conference Information, Registration and Hotels:

<http://www.marshall.edu/cegas/events/GITAR/>

A S C E C O N T I N U I N G E D U C A T I O N S E M I N A R S

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
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
Structural-Condition Assessment of Existing Structures	April 18 - 19, 2013	Chicago, IL
HEC-HMS Computer Workshop	May 9 - 10, 2013	Milwaukee, WI
Pumping Systems Design for Civil Engineers	May 30 - 31, 2013	Cincinnati, OH
Load Rating of Highway Bridges	June 6 - 7, 2013	Minneapolis, MN
Structural-Vibration Analysis: Design and Troubleshooting	June 12 - 14, 2013	Chicago, IL
Introduction to Tunnel Design and Construction	June 19 - 21, 2013	Chicago, IL
Bridge Rehabilitation	July 18 - 19, 2013	Chicago, IL
Project Management	September 12 - 13, 2013	Chicago, IL
Seismic Loads for Buildings and Other Structures	September 19 - 20, 2013	St. Louis, MO
Progressive Collapse Mitigation: Practical Analysis Methods and Proven Solutions	September 26 - 27, 2013	Chicago, IL

2012 - 2013 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
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 March 21, 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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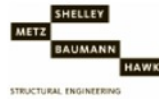


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