

ASCE Newsletter

Central Ohio Section

October, 2013
Volume 18, Issue 2

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OCTOBER LUNCHEON

DATE: Thurs. Oct. 17, 2013 - 11:30 AM Registration, 12:00 P.M. Lunch & Presentation

LOCATION: OSU Fawcett Center, 2400 Olentangy River Rd, Columbus, OH

TOPIC: The Ohio State University North Campus Residential District Transformation



The Ohio State University is preparing to transform the North Residential District through the addition of 3,200 beds of new student housing, recreation and dining, creating a new, vibrant neighborhood of over 6,000 student residents. Guided by our recently completed One University Framework Plan, the soon to be completed North Residential District Transformation Master Plan, and our dynamic vision for Student Life, this new, densely developed North Campus Residential District must be carefully planned in a manner to reflect the best practices in both urban design, and campus-based student residential life.

The District, bounded by Lane Avenue, High Street, Woodruff Avenue, and the College of Business, will be transformed with entirely new hardscape and infrastructure. The plan calls for 8 existing buildings to remain, 9 to be demolished, and 11 new buildings constructed on the 23-acre site. The presentation will review the goals of the project and some of the challenges involved in completing the project by Fall of 2016 while maintaining the student population within the district throughout construction.

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SPEAKERS: Members of OSU Department of Student Life and Design/Build Project Team

MENU: Boxed lunch, please specify if a vegetarian lunch is desired.

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., Oct. 14. 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 Mark Seidemann: 614-844-4015, 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:

In September, we had a valuable joint meeting with Columbus Engineer's Club at Confluence Park Boat House on subject of Engineering Lessons Learned. We had many attendants who enjoyed line up of highly experienced speakers in fields of construction management. The food was great too!

Our October 17th luncheon will be about the OSU North Residential District Transformation. We will meet at the Fawcett Center at The Ohio State University. Our speakers will discuss preparations to transform the District through the addition of 3,200 beds of new student housing, recreation and dining, creating a new, vibrant neighborhood of over 6,000 student residents. The District, bounded by Lane Avenue, High Street, Woodruff Avenue, and the College of Business, will be transformed with entirely new hardscape and infrastructure. The plan calls for 8 existing buildings to remain, 9 to be demolished, and 11 new buildings constructed on the 23-acre site. The presentation will review the goals of the

project and the challenges involved in completing the project by Fall of 2016 while maintaining the student population within the district throughout construction. Please see additional information in this newsletter to register and to attend. We hope to have a great turnout.

On November 14th, we will have a luncheon on the ongoing Columbus Commons development. We will have more activities to come in the upcoming months.

As always, we will provide our members with quality free webinars that will be held at places where we can attract many ASCE member participants. Feel free to provide us your input on webinar subject material that our selection committee can take into consideration. We will ensure that webinar topics will be greatly useful to you and will earn you PDH's.

Regards,

Michael Navabi, PE, D.WRE, BCEE, F.ASCE
 President – ASCE Central Ohio Section
President@CentralOhioASCE.com

2013 CONCRETE PAVEMENT SEMINAR

What: Seminar - 5.0 PDH

When: Nov. 22, 2013 - 8:30 A.M.

Where: Holiday Inn, 7007 N. High St., Worthington, OH 43085

Register: Click [HERE](#)

COST: \$60 if registered by November 7, 2013
 \$75 after November 7, 2013.

Includes handouts, materials, breakfast and lunch.



Learn about the latest Pavement Technology and Specifications. Top industry representatives, contractors and engineers will be presenting.

Sessions include: Concrete Pavement Repairs, Concrete Overlay Guide for Asphalt Parking Lots, Concrete Parking Lots for Schools, Concrete pavement design with StreetPave12 Software, Roller Compacted Concrete National Guide Specifications, Decorative Overlays & Toppings

MEMBERSHIP RENEWAL RACE



Renewing early may win you and the Central Ohio Section cash! Central Ohio Section members and Younger Member Groups are encouraged to renew your ASCE membership today. Your membership demonstrates your commitment to your professionalism and our profession. To renew your membership for 2014, please click [HERE](#).

• The Section and the Younger Member Group with the highest percentage of renewed members by Dec. 13 will each win a cash price of \$1,000.

- When you renew your 2014 ASCE membership, you will have an opportunity to win a Visa Gift Card, which start at \$250 and decrease with every drawing. ASCE will select six total winners through December 10. The earlier you renew, the more chances you have to win for yourself, the Section, and the Younger Member group!
- Plus, you will be entered in the Grand Prize drawing to be held on Dec. 17 for a 50-inch flat panel TV! Don't miss any opportunities to win. Renew today!

Online, in person, and wherever membership takes you, ASCE benefits every civil engineer. Check out www.asce.org/101 to view the ways to benefit from your ASCE membership.

3-DAY SEMINAR - EARTH RETAINING STRUCTURES

What: 3-Day Seminar - 20 PDH
 When: Dec. 3 & 4, 2013 - Full Day
 Dec. 5, 2013 - A.M. Only
 Where: E.L. Robinson Engineering
 1801 Watermark Drive
 Columbus, OH 43215



Topic: **Earth Retaining Structures**
 RSVP: At E.L. Robinson website, click [HERE](#)
 COST: \$650 if registered by November 15, 2013
 \$700 by November 29, 2013.

Includes handouts, materials, breakfast and lunch on all 3 days.

E.L. Robinson is presenting a three day seminar on Earth Retaining Structures in Columbus, Ohio, on December 3-5, 2013. The seminar will be presented by Mr. Jerry DiMaggio and Dr. Jamal Nusairat. The goal of this course is to provide agencies with state-of-the-practice design tools and construction techniques to expand implementation of safe and cost effective earth retention technologies. This course addresses the selection, design, construction, and performance of earth retaining structures used for support of fills and excavations or cut slopes. Instructors cover factors that affect wall selection, including contracting approaches with an emphasis on required

bidding documents for each approach. Class discussions will include design procedures and case histories, demonstrating the selection, design, and performance of various earth retaining structures. Detailed information on subsurface investigation, soil and rock property design parameter selection, lateral earth pressures for wall system design, and load and resistance factor design (LRFD) for retaining walls are provided.

Outcomes: Upon completion of the course, participants will be able to:

- Describe potential applications for Earth Retaining Structures (ERS)
- Select a technically appropriate and cost-effective ERS
- Select appropriate material properties, soil design parameters, and earth pressure diagrams
- Perform design analysis and prepare conceptual designs
- Review contractor submitted documents
- Discuss contracting methods
- Describe construction and inspection activities for ERS

FIELD TRIP - WILLOW ISLAND HYDROPOWER DAM

What: Construction site field trip
 When: Friday, October 11, 2013. 1:00 PM.
 Where: Willow Island Hydropower Project, Pleasant County, WV
 RSVP: Please RSVP to Dave Pritchard at 614-519-4819 or davepritchard@sbcglobal.net to provide a head count to AMP Ohio. Carpool options are available.
 COST: FREE!

The project is a hydroelectric powerplant currently under construction on the WV side of the Ohio River at the US Army Corps of Engineers Willow Island Locks and Dam. Willow Island is located in Pleasant County, West Virginia, approximately 162 river miles downstream of Point Bridge, Pittsburgh. It is about 2.5 hours from Columbus, between Parkersburg and St. Marys WV, reached via I70 and I77.

The Willow Island project will divert water from the existing Corps Willow Island Locks and Dam through bulb turbines to generate an average annual output of approximately 239 million kilowatt-hours (kWh). The site will include an intake approach channel, a reinforced concrete powerhouse and a tailrace channel. The powerhouse will house two horizontal FERC

rated 17.5-MW bulb-type turbine and generating units with an estimated total FERC rated capacity of 35 MW at a gross head of 20



feet. A 1.6-mile 138 kV transmission line is planned to connect to PJM.

Safety equipment needed – hardhat, boots, safety vest and safety glasses. There will be a few available at the site, but please bring your own if at all possible

Directions- I-70 to I-77 south, first exit after Ohio River bridge turn right then left on to 31. Take 31 to stop sign at Route 2, turn left on Route 2. Go about 8 miles, project will be on the left after a Credit Union. Turn left on fishing access after you pass the doublewide office trailers. Turn left into the trailer compound and proceed to the MWH trailer 3rd one on left.

ASCE'S "NEW FACE" OF CIVIL ENGINEERING



Salute Promising Young Professional Engineers – Nominate a 'New Face' for 2014 Recognition

Engineering–Professionals recognition program. If chosen, in addition to being named one of ASCE's 10 young civil engineering professionals to watch, your nominee may be selected for the distinction of being recognized as a New Face of Engineering by the National Engineers Week Foundation.

Do you work with or know a civil engineer who's 30 or under, yet is already making a name for himself or herself? Does this individual show the potential for a long and distinguished career in the profession and a commitment to excellence in everything he or she does? If so, nominate him or her for ASCE's 2014 New Faces of Civil

ASCE will be accepting nominations for New Faces of Civil Engineering–Professional Edition from the civil engineering community through Friday, Oct. 18, 2013. Nominees must be ASCE members age 30 or under as of Dec. 31, 2013. For additional information, including nomination form, click [HERE](#).

CALL FOR PAPERS: SUSTAINABLE INFRASTRUCTURE

What: International Conference on Sustainable Infrastructure

When: November 6-8, 2014

Abstracts due November 8, 2013

Where: Long Beach, California

Infrastructure is an essential component of national competitiveness and social well-being. Designing and delivering infrastructure systems that truly contribute to sustainability throughout their service life is the theme of this conference.

The International Conference on Sustainable Infrastructure (ICSI) 2014 will focus on sustainability in the built environment, presenting relevant engineering research, demonstrations and applications that contribute to competitiveness and well-being. Presentations and panel discussions will cover sustainable infrastructure planning, financing, design, construction and operation: how practitioners are improving sustainable performance to meet the critical challenges of a changing operating environment.

Prospective speakers are invited to submit abstracts. The conference will produce proceedings which will include conference papers. Speakers who wish to submit a paper for inclusion in the conference proceedings should indicate their intention to do so. High quality papers will be considered for journal publication.



Abstract submissions should be limited to two pages. Authors

should indicate whether they wish to present in a traditional session, a poster session, or are willing to be considered for either.

Online submission is easy and is required to be considered for acceptance into the program. Simply follow the online instructions. Final papers and posters will be peer reviewed and published in the Conference Proceedings. Prospective authors should prepare and submit an abstract (in English) of not more than two (2) pages (double spaced)

Conference papers and presentations will cover all types of horizontal infrastructure: roads, bridges, dams, levees, buildings and facilities, rail, waterways, transit, water and wastewater, aviation, ports, solid and hazardous waste, telecommunications, and energy. The topic areas to be addressed at the conference are:

- Situation: Current and Projected
- Financing Infrastructure Projects
- Cross-cutting Issues
- Materials, Tools, and Methodologies
- Innovation
- Challenges and Barriers
- Sustainability and Competitiveness
- Risk, Resiliency, and Adaptation to Climate Change
- Sustainable Cities
- Sustainability, Society and Culture
- Envision™ Rating System
- Research Needs, Advances

For additional information, click [HERE](#)

FREE WEBINAR - STRUCTURAL MEMBERS

What: Free Continuing Education Webinar - 1.5 PDH

When: Monday, Oct. 21, 2013
11:30 AM - 1:00 PM

Bring your own lunch

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

Topic: **Lateral Bracing of Flexural Members**

RSVP: To newsletter@centralohioasce.org by Thursday, Oct. 17, 2013.



various bracing systems illustrate the discussion..

Webinar Outline

- Introduction
- The general types of bracing used in flexural members
- Bracing for wood beams and joists
- Lateral bracing for concrete members
- Lateral bracing for structural steel beams
- Bracing for metal building systems

*Open only to Central Ohio Section Members.

Most structural engineers know that flexural members may need some lateral bracing to optimize their load-carrying capacities. But what kind of bracing? For which loads is the bracing designed? Which design details should be used? These questions are only the beginning. There are many more detailed questions that come up during real-life design projects.

This webinar discusses these and many other practical issues involved in designing and specifying lateral bracing for flexural members of various materials. The presentation starts with the basics of bracing design applicable to all types of beams and joists. It then proceeds to an in-depth examination of the bracing practices for flexural members in wood, concrete, structural steel, and pre-engineered metal buildings.

Borrowing from more than 30 years of engineering and forensic experience, the instructor explains which designs worked better than others and which common details could be improved. The design examples and sketches of

Learning Outcomes/Benefits

- Learn about the general types of bracing used in flexural members
- Become familiar with the practical methods of designing lateral and torsional bracing used in wood, concrete, structural steel, and pre-engineered building flexural members
- Explore the various types of bracing used to provide stability against lateral displacement and rotation in flexural members
- Discover the dangers of using some very common details for beam supports
- Find out the specific design requirements for lateral and torsional bracing contained in the authoritative publications
- Work through a number of design examples for strength and stiffness of lateral bracing

SHALE ENERGY ENGINEERING CONFERENCE

What: Shale Energy Engineering Conference

When: July 21-23, 2014. Registration opens February, 2014.

Where: Pittsburgh, Pennsylvania

ASCE's Shale Energy Engineering Conference will highlight the engineering issues related to shale oil and gas production, provide a platform to review the current status of regulatory requirements in this area, and identify and promote the most cost effective and environmentally sound ideas, innovative solutions, and emerging technologies related to water resources management, geological and geotechnical aspects of shale gas development,

and broader infrastructure components of the shale oil and gas exploitation cycle.

The Conference will be organized into the following four tracks:

- WATER RESOURCES MANAGEMENT IN SHALE OIL & GAS DEVELOPMENT
- GEOLOGICAL AND GEOTECHNICAL ASPECTS OF SHALE OIL & GAS WELL DEVELOPMENT
- ENVIRONMENTAL, REGULATORY AND PUBLIC POLICY ISSUES
- SUPPORTING INFRASTRUCTURE DEVELOPMENT FOR SHALE OIL & GAS PRODUCTION

2013 - 2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday October 17, 2013 Lunch	OSU North Residential District Transformation	ASCE	OSU	Brooks Vogel
Thursday November 14, 2013 Lunch	Columbus Commons	ASCE	Downtown Columbus	Mike Mazzoli
Thursday December 19, 2013 Lunch	Alkire Road Temporary Railroad Bridge	ASCE	TBD	Mike Bashore
Thursday January 16, 2014 Lunch	Zoo Safari	ASCE	Columbus Zoo	Mike Mazzoli Kevin Carpenter
Thursday February 20, 2014 Lunch	Engineers' Week	All	TBD	Engineering Week Committee
Sunday March 2, 2014 Lunch	Oil and Gas/Fracking	ASCE	TBD	AJ Smith
March 2014 Lunch	ASCE Central Ohio Section Annual Spring Seminar	ASCE	TBD	AJ Smith
Thursday April 17, 2014 Lunch	ASCE National President- Elect Robert Stevens	ASCE	OSU	Bob Redfield/ Carolyn Merry
Thursday May 15, 2013 Lunch	Columbus Biofilters / Annual Awards Lunch	ASCE	TBD	Greg Barden
T.B.D. June 2014 Dinner	2014-2015 Planning Meeting	ASCE	Tommy's Pizza, Dublin, Ohio	ASCE
Friday June 20, 2014 Lunch/Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk (ASCE)

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 go to <http://centralohioasce.com/e-mail> .
Web: www.centralohioasce.com
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BOARD MEETING

*Our Next Board Meeting
 Will Be 11:30 AM
 October 31, 2013
 Location: Prime AE
 3000 Corporate Exchange Dr.
 Columbus OH 43231*

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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