

October, 2014  
Volume 19, Issue 2

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## OCTOBER LUNCHEON

**DATE:** Thurs. Oct. 23, 2014 11:30 AM  
Registration, 12:00 P.M. Lunch & Presentation

**LOCATION:** Crowne Plaza Columbus North, 6500  
Doubletree Ave, Columbus, OH 43229

### TOPIC: Scioto Riverfront Greenway

The Scioto Riverfront in Downtown Columbus has been transformed as a result of hundreds of millions of dollars in public and private developments in the RiverSouth area. But while substantial public and private investments along the Scioto River have created world-class amenities, the river has remained a slow-moving, overly wide pool of sediment-laden water due to the presence of low head dams.

The \$35.5 million project that includes removal of the Main Street Dam and develop riverfront greenspace begins to restore the natural course of the river, improve the ecological systems and river habitat, provide new recreation options, and provide an opportunity to further leverage existing investments by creating a stunning 33-acre greenway through Downtown. A healthy river that enables recreation and improves connectivity will allow Columbus to thrive and ensure maximum economic, ecological, and social benefits.

The presenters will discuss the impetus for the project as well as the overall goals, the inclusion/impact of a wide group of stakeholders, the "natural" channel design process, the inclusion of park structures, the geotechnical and structural challenges and the "contractor at-risk" involvement. As construction has started, some visuals of the early stages of construction will be shared.

**SPEAKERS:** Project team from Stantec Consulting Services

**MENU:** Bruschetta Chicken or Chef's Choice Vegetarian meal, Traditional Salad, Chef's choice of seasonal fresh vegetable, Chef's choice of potato, Assorted rolls, Caramel apple pie, Coffee, Tea, Iced tea.

**CPD:** A certificate for one 1 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 Friday, Oct. 17, 2014. Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. Contact Carlos Vazquez at 614-634-7132, or [register@centralohioasce.com](mailto:register@centralohioasce.com) to register.

**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:

Thank you to all who attended the first luncheon of the year last month. We had a great presentation and great turn out! October is going to keep the ball rolling with a presentation about the Scioto Greenways project that is changing the look of downtown Columbus. We are continuing to provide webinars and social events to encourage professional development and networking for our membership. This month we have set up a Blue Jackets event in partnership

with the American Society of Highway Engineers and Engineers Club of Columbus. See our website for details, and again feel free to reach out to the board with any suggestions for upcoming events.

Sincerely,

Mark Seidelmann, PE, GISP, M.ASCE

President – ASCE Central Ohio Section

[President@CentralOhioASCE.com](mailto:President@CentralOhioASCE.com)

## OVER FAREWELL MESSAGE

Cleveland Section member and 2014 ASCE President Randy Over presented his farewell address at the 2014 ASCE Global Engineering Conference in Panama City, Panama. President-elect Robert Stevens was sworn in as 2015 president.

Over reflected on the Society's accomplishments over the past year, both strategic priorities external to the organization and internal advancement of the organization, the main focus being the development of leaders.

Details of Over's farewell and thank you can be found on the [President's Perspective blog](#), which shares the personal views and observations of

the president as they interact with members, policy-makers, and other organizations to address the challenges facing ASCE, the profession, and society.



Outgoing ASCE President Randall "Randy" S. Over, left, passes the gavel to incoming President Robert D. Stevens. Photo Credit: David Hathcox

## MEMBERSHIP RENEWAL



### FAST TRACK OUR SECTION TO WIN \$1,000!

The 2015 ASCE Section Renewal Race is on! I hope you'll join the Central Ohio Section effort to earn the winning prize and keep our group thriving.

Just go to [www.asce.org/renewal](http://www.asce.org/renewal) and renew your ASCE membership by December 12, 2014. Then, go to [www.asce.org/finishline](http://www.asce.org/finishline) to encourage other Section and Branch members to do the same.

The Section with the highest percentage of renewed members by December 12, 2014 will win a cash prize of \$1,000! Your renewal supports valuable local programs and is always appreciated!

Results will be posted and updated regularly at [www.asce.org/finishline](http://www.asce.org/finishline) to monitor progress and keep a lively spirit of competition!

**Now it's Ready...Set...Go to [www.asce.org/finishline](http://www.asce.org/finishline)!**

Thank you in advance for your continued membership and support of our section.



## WILLOW ISLAND HYDROPOWER DAM TOUR

**What:** Construction site trip

**When:** Early November, 2014 - TBD

**Where:** Willow Island Hydropower Project, Pleasant County, WV

**Cost:** FREE!

**Contact:** Please contact Dave Pritchard at 614-519-4819 or [davepritchard@sbcglobal.net](mailto:davepritchard@sbcglobal.net) with any questions or to RSVP. Carpool options are available.

The project is a hydroelectric powerplant currently under construction on the West Virginia 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 I-70 and I-77.

The project will divert water from the existing locks and dam through bulb turbines to generate

an average annual output of approximately 239 million kilowatt-hours (kWh), enough to power approximately 22,000 homes. The site will include an intake approach channel, a reinforced concrete powerhouse and a tailrace channel. The powerhouse will feature two horizontal FERC rated 17.5-MW bulb-type turbine and generating units with an estimated total FERC rated capacity of 35 MS at a gross head of 20 feet. A 1.6-mile 138 kV transmission line is planned to connect to the plant.

Safety equipment including hardhat, boots, safety vest and safety glasses will be required for the tour. There will be a few available on-site, but please bring your own if possible.

**Directions:** I-70 east to I-77 south. First exit after Ohio River bridge turn right, then left on 31. Take Rt. 31 to a stop sign at Rt. 2. Turn left at Rt. 2. Proceed for about 8 miles, the project will be on your 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 on the left.



## BLUE JACKETS HOCKEY GAME

**What:** Blue Jackets vs. Carolina Hurricanes

**When:** Tues., Nov. 4, 2014

**Where:** Nationwide Arena

**Cost:** \$10 members,  
\$15 guests

We have a group package of tickets to the Blue Jackets-Hurricanes game. Tickets are \$10 per member and \$15 per non-ASCE guest. We're accepting pre-payment using Paypal (click [HERE](#)). As these tickets usually sell for \$50 face value, it's a great deal!

Prior to the game, we'll have a social for the game attendees put on by the Younger Members group at Brother's, so even if you don't want to go to the hockey game, please come out for drinks, food and fellowship!

You can pick up the tickets from Matt Baxendell at Brother's before the game. If you would like to go, please

email Matt at [Matt.Baxendell@woolpert.com](mailto:Matt.Baxendell@woolpert.com). Contact Matt for more info or any questions.



## FREE WEBINAR - LRFD FILL RETAINING WALL DESIGN

What: Free Webinar - 1.5 PDH

When: Monday, Nov. 17, 2014

11:30 AM - 1:00 PM

Bring your own lunch

Where: Korda/Nemeth Engineering, Inc.

1650 Watermark Drive, Ste 200

Columbus, OH 43215

Topic: LRFD for Earth Retaining Structures:

Fill Walls

RSVP: To [newsletter@centralohioasce.org](mailto:newsletter@centralohioasce.org) by Thursday, Nov. 13, 2014.

\*Open only to Central Ohio ASCE Section Members.

\*Seating is limited to the first 25 people.

### Purpose and Background

Fill walls have a wide range of applications and range in configuration from the basic gravity and cast-in-place (CIP) semi-gravity walls to complex mechanically stabilized earth (MSE) walls. The LRFD platform offers a rational framework for consideration of different types of fill walls. The webinar will use the 6th Edition (2012) American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications as a basis for the technical content. Applicable articles in Sections 11, 10 and 3 of the AASHTO LRFD Specifications will be used as a basis of discussion.

The webinar will assume that the participant has a basic working knowledge of design and construction of fill retaining walls including fundamental aspects of earth pressure theories. It will include discussion on the terminology and types of fill walls, lateral earth pressure theories for fill walls, permanent and transient surcharge loads, applicable load factors, use of minimum and maximum load factors for permanent loads, identification of limit states and resistance factors, pressure surfaces for geotechnical and structural analysis, and consideration of extreme event limit states such as seismic events.

The webinar will concentrate on external stability of CIP and MSE walls. Introductory information on internal stability of



MSE walls in the context of limit states and general concepts will also be presented.

### Learning Outcomes

This webinar will help participants perform external stability analysis to size fill retaining walls using the LRFD approach.

### Seminar Benefits

- Learn basics of LRFD based analysis of fill retaining walls
- Continue building on the knowledge gained from previous LRFD webinars
- Examine the possibilities and benefits of improved communications between geotechnical and structural specialists for fill wall design

### Seminar Outline

- Terminology and types of fill walls
- Lateral earth pressures
- Consideration of surcharges
- Loads and load factors
- Limit states and resistance factors
- External stability analysis for CIP and MSE walls
- Introduction to limit states for internal stability of MSE walls
- Extreme events

The Central Ohio Section of ASCE sponsors free continuing education webinars as a service to our members. These webinars are produced by ASCE and normally cost \$250 or \$300 for ASCE members. However, the Central Ohio Section is paying the registration fee and inviting any interested section members to attend for free. Just RSVP by the deadline. Seating is limited, so do not delay.

You can see [the complete list of webinars available from ASCE National on their website](#). If you see one you like, let us know. If you and your company would like to host one, let us know that too. If you open it up to any interested Central Ohio ASCE section members to come, we will pay the registration fee.

## FREE WEBINAR - LRFD CUT RETAINING WALL DESIGN

What: Free Webinar - 1.5 PDH

When: Tuesday, Dec. 2, 2014

11:30 AM - 1:00 PM

Bring your own lunch

Where: Korda/Nemeth Engineering, Inc.

1650 Watermark Drive, Ste 200

Columbus, OH 43215

Topic: LRFD for Earth Retaining Structures:

Cut Walls

RSVP: To [newsletter@centralohioasce.org](mailto:newsletter@centralohioasce.org) by Thursday, Nov. 27, 2014.



\*Open only to Central Ohio ASCE Section Members.

\*Seating is limited to the first 25 people.

This webinar offering concentrates on cut walls (top down construction). Cut walls have a wide range of applications and encompass a diverse range of wall families including sheet pile, post and panel, H-pile and lagging, slurry and soil mix.

More details to follow.



## CIVIL ENGINEERING REFERENCE BOOKS

Late last year, the Central Ohio Section bought a number of civil engineering reference books and donated them to the Columbus Library for public use. The titles are as follows:

- Minimum Design Loads (7-10)
- Design of Marine Facilities for Berthing, Mooring
- FRP Composite Connections
- Foundation Engineering Handbook
- Trenchless Technology Piping
- Civil Engineer's Handbook of Professional Practice
- Building Code Requirements and Specification for Masonry Structures (5-11 & 6-11)

- Urban Stormwater Controls
- Municipal Wastewater Plants
- Structural Steel Designer's Handbook

The books are for reference use and cannot be checked out. They are located on the 3rd floor in a special collection area of the main Columbus library (north side of building in the half-height stacks).

Thanks to Adam Rich for organizing the donation.



## ASCE STRUCTURES CONGRESS



Save the Date  
STRUCTURES CONGRESS 2015  
Portland, Oregon - U.S.A  
April 23 - 25, 2015

### CALL FOR PROPOSALS

Submit your abstract and/or full session proposal today for Structures Congress 2015.

We are currently accepting proposals for complete sessions and abstracts for individual papers to be presented at Structures Congress 2015. The Congress provides a forum to advance the art, science, and practice of structural engineering. All proposals are due

June 11, 2014. Visit the conference website for all the details [www.structurescongress.org](http://www.structurescongress.org)

### Top 5 Reasons to Attend this Congress

- Network and make connections with leaders in your profession
- Gain Knowledge by attending outstanding technical sessions - over 110 from which to choose
- Earn Professional Development Hours (PDH's) in technical sessions
- Interface with students and young professionals
- Visit Portland for roses, parks, museums, outdoor adventure, great food, and so much more.

## FREE ON-DEMAND WEBINARS

As a benefit to members, in 2014 ASCE is offering five free, on-demand webinars good for one PDH each. You may choose up to 5 webinars from the 60 on-demand webinars listed [HERE](#). Each one is a 1-hour webinar worth 1 PDH. That's 5 free PDHs from our comprehensive continuing education library – just for being a member! Categories include *Environmental, Geotechnical, Hydraulics and Water Resources, Management and Practice, Structural, and Transportation*.

Not a member? Join online or call Customer Service at 800-548-ASCE (2723) or 703-295-6300, Monday-Friday, 9:00 a.m. – 6:00 p.m., ET to take advantage of this exclusive member benefit.

Webinars must be taken by December 31, 2014.



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# 2014 - 2015 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday October 23, 2014 Lunch	Scioto River Restoration	ASCE	Crowne Plaza North	Mark Seidelmann
Thursday November 20, 2014 Lunch	SR333/I270 Interchange	ASHE/ ASCE	Villa Milano	David Lenzer
Thursday December 18, 2014 Lunch	Blueprint Columbus	ASCE	TBD	Greg Barden
Thursday January 22, 2015 Lunch	EWB Update - Santo Domingo Flood Control	ASCE/ EWB	TBD	Amanda Engle
Thursday February 26, 2015 Lunch	Engineers Week	All	TBD	Engineers Week Committee
Thursday March 26, 2015 Lunch	Bridge Park Development	ASCE/ SEAoO	TBD	Fae Garstang
Thursday April 22, 2015 Dinner	OU/OSU Student Chapter Presentations Portsmouth Bypass	ASCE	TBD - Chillicothe, OH	Tony Klimek - Lower Scioto Valley Chapter
April/May 2015 (TBD) All Day	ASCE Spring Seminar	ASCE	TBD	Chris Nye
Thursday May 21, 2015 Lunch	ASCE National President Elect & Awards Luncheon	ASCE	Schmidts	TBD
June, 2015	2015-2016 Planning Meeting	All	Tommy's Pizza - Dublin, OH	A.J. Smith
Friday June, 2015 (TBD) Lunch & Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk

## 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](http://www.centralohioasce.com)

E-Mail: [asce@centralohioasce.com](mailto:asce@centralohioasce.com)

## BOARD MEETING

### Our Next Board Meeting

Will Be 11:30 AM

November 6, 2014

Location: Stantec

1500 Lake Shore Drive, Suite 100  
Columbus OH 43204



## INTERNATIONAL CONF. ON PERPETUAL PAVEMENT

What: International Conference on Perpetual Pavement  
When: Oct. 30-31, 2014  
Where: Hilton Columbus/Polaris

More than 250 experts from 30 states and 19 state departments of transportation attended the first two International Conferences on Perpetual Pavement (ICPP), held in 2006 and 2009, to discuss optimal design and construction approaches for asphalt pavements designed and built to last longer than 50 years without requiring major structural rehabilitation or reconstruction, and needing only periodic surface renewal in response to distresses confined to the top of the pavement. Following the success of the first two conferences, ICPP 2014 will provide a venue for participants to catch up with developments in this fast-moving field, and for state and local government to learn how to take advantage of the benefits of perpetual pavement.

Perpetual pavements contain a surface layer of high quality asphalt that resists rutting and traffic wear, intermediate layers of high modulus asphalt that provide structure and also resist rutting, and a fatigue-resistant bottom layer for crack

resistance. Perpetual pavements are becoming popular with transportation agencies seeking to reduce lifecycle costs and eliminate user impact associated with pavement reconstruction, because maintenance is limited to periodic resurfacing.

The conference, hosted by the Ohio Research Institute for Transportation and the Environment (ORITE) and the Ohio Department of Transportation (ODOT) with sponsorship from the asphalt industry, will provide a forum for agencies who have constructed perpetual pavements to share their experiences and for those who are considering construction to gain from these experiences. Topics will include: design verification and calibration, modeling, instrumentation, construction, and monitoring. Information provided at this conference will promote the proper design and construction of perpetual pavements.

For more information or to register see the conference web site at <http://www.ohio.edu/icpp/>. You may also contact the Ohio Research Institute for Transportation and the Environment at [orite@ohio.edu](mailto:orite@ohio.edu), or by calling (740) 593-0430 (Tuesday-Thursday 8:00-5:00 only).

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## 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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