

ASCE Newsletter

Central Ohio Section

December, 2014
Volume 19, Issue 4

CONTENT

President's Letter 2

Latest News 2-6

Calendar of Events 7

Newsletter Ads 8-9

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DECEMBER LUNCHEON

DATE: Thurs. Dec. 18, 2014 11:30 AM Registration,
12:00 P.M. Lunch & Presentation

LOCATION: OSU Fawcett Center, 2400 Olentangy
River Road, Columbus, OH 43210

TOPIC: Blueprint Clintonville Integrated
Solutions Project - Pilot Area Technical Committee
(PATC) - Approach and Interim Findings

The City of Columbus, Department of Public Utilities, Division of Sewerage and Drainage (DOSD) has embarked upon its approved Wet-Weather Management Plan (WWMP). Currently, that plan is almost entirely comprised of a series of treatment plant capacity upgrades, storage tanks, tunnels, and other piping system augmentations; collectively known as "gray" infrastructure. After approval of the WWMP, the use of more renewable, sustainable, and environmentally friendly systems, commonly referred to as "green" infrastructure, has been recognized and implemented in many communities as a potential solution to many of the elements associated with consent order requirements.

Recently, the City received approval from Ohio EPA to delay many elements of the WWMP so the City can investigate whether it can meet the WWMP goals and future stormwater regulations with green infrastructure and I&I control on public and private property. The solution is known as the Integrated Solution (IS). The City is proceeding forward with the pilot for this Integrated Solutions approach in the Clintonville neighborhood.

This presentation will discuss the efforts of the Pilot Area Technical Committee (PATC) charged with developing and refining the project objectives, as well as the methodology and logistical challenges of achieving these goals.

SPEAKERS: Nick Domenick, PE – City of Columbus, Division of Sewerage and Drainage
Hunter Kelly, PE - City of Columbus, Division of Sewerage and Drainage

MENU: Boxed lunch, Please specify if a Vegetarian lunch is desired.

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, Dec. 12, 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 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:

We had another great luncheon in November with close to 100 in attendance. We appreciate the continued support and ask for any input from the membership as to ways we can provide topics for luncheons and webinars that are of interest to our members.

As we prepare for the holiday season, and the New Year you may be looking for new professional opportunities. I would like to remind you all about the employment section of our website (<http://www.centralohioasce.com/employment>)

which contains links to the job postings for our sponsoring companies. Thanks again for your continued support, and I wish you a joyous Holiday Season.

Sincerely,

Mark Seidelmann, PE, GISP, M.ASCE

President – ASCE Central Ohio Section

President@CentralOhioASCE.com

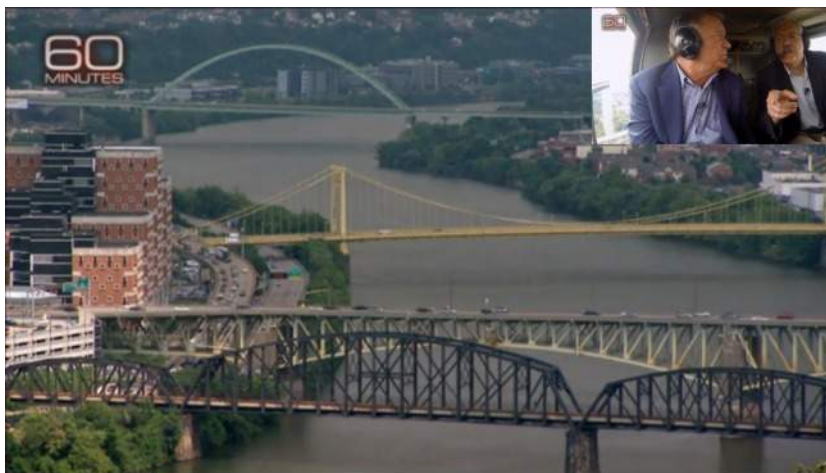
ASCE PAST PRESIDENT ON 60 MINUTES

ASCE Past President Andy Herrmann flew over Pittsburgh, the “city of bridges”, with 60 Minutes’ Steve Kroft to highlight America’s aging bridges in a segment that aired Sunday, Nov. 23. Click [HERE](#) to view the segment.

Herrmann was among several experts interviewed for the piece, including former Secretary of Transportation Ray LaHood and Congressman Earl Blumenauer (D-OR). While each guest brought different experiences, they all agreed on one thing: the need for increased funding.

One in nine bridges in the U.S. are structurally deficient and the gas tax, last increased in 1993, simply cannot fully-fund a 2014 transportation network.

As Herrmann said, “It all comes down to funding.” It is now up to Congress to #FixTheTrustFund with a long-term, sustainable funding solution that will address our aging infrastructure.



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*.

Webinars must be taken by December 31, 2014.



2015 STEM EXPO

What: 2015 STEM Expo

When: Sat. Feb. 28, 2015

9:00 AM-1:00 PM

Where: The Metro School
(OSU campus)

1929 Kenny Rd,
Columbus, OH 43210



After much success in 2014, the ASCE Central Ohio Section Younger Member Group is hosting a STEM (Science, Technology, Engineering, Math) Expo at the Metro School on the Ohio State Campus on Saturday, February 28, 2015 to conclude Engineer's Week. The Younger Member Group is seeking local STEM



companies to sponsor hands-on, STEM related activities for the event. The goal is to expose K-8 students to

the world of STEM through fun, interactive activities.

Rather than seek monetary sponsorship, we invite local STEM professionals to organize an activity on behalf of their employer. Sponsoring

an activity is an easy and great way to get involved in this educational and outreach event. Activity sponsor responsibilities would include:

- Developing a fun, interactive STEM related activity
- Obtaining funding through your employer for the activity materials, if necessary
- Facilitating the activity at the STEM Expo event (typically 2-3 people are needed)

Information for the event, including a list of sponsors and the planned activities can be found at

<http://www.centralohioasce.com/STEM-Expo>

Please help us make this a great community event.



Event T-Shirts will be available for activity sponsors for a cost of \$12 per shirt. Contact STEMexpo@centralohioasce.com to RSVP, sponsor an activity, order T-Shirts, or submit questions. We thank you for your support!

CIVIL ENGINEERING ACHIEVEMENT AWARD

Ohio Outstanding Civil Engineering Achievement Award Criteria

The Ohio Council of ASCE will soon be soliciting nominations for the 2015 Ohio Outstanding Civil Engineering Achievement Award. Selection criteria for the Ohio OCEA Award parallels national ASCE's criteria except that nominated projects must be located within Ohio's borders. Projects nominated for but not winning the national ASCE OCEA competition are eligible. Ohio Council's OCEA winner will be selected by a committee of judges representing each Ohio Section. The 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.

Selection is based on how the project demonstrates the application of civil engineering skills and its contribution to civil engineering progress and mankind. 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, (5) impact on the physical environment, unusual aspects, and esthetic values, and (6) the project's potential adverse effects. The nomination should look frankly at the project's potential problems.

A bronze plaque will be awarded to the winning Ohio Project to be mounted in a prominent location at the project site. The presentation ceremony will provide an excellent opportunity for publicity and recognition.

Guidelines for Eligibility

Projects must generally be substantially completed and operating for their intended purpose to be considered for the award. Most any civil engineering project is open for consideration. Detailed guidelines will be available soon.

Submittals

Detailed submittal information will be available in early 2015 with a tentative submittal deadline by February 27, 2015.

FREE WEBINAR - IMPROVING FOUNDATIONS

What: Free Webinar - 1.5 PDH

When: Thurs., Jan. 8, 2015

11:30 AM - 1:00 PM

Bring your own lunch

Where: WD Partners

7007 Discovery Blvd

Dublin OH 43017

Topic: Underpinning and Strengthening of Foundations

RSVP: To Jill.Radspieler@WDPartners.com by Monday, Jan. 5, 2015.

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.



Purpose and Background

Many renovation projects involve strengthening of foundations. Whenever an increase in gravity loading or a lateral load retrofit is proposed, foundation strengthening is likely to follow. Underpinning, the lowering or enlarging an existing foundation, is a basic technique of foundation strengthening. Underpinning of existing foundations is particularly common when new construction occurs nearby.

There are few standards dealing with strengthening of foundations, and many designers are looking for some relevant references. Whether you are one of them, or simply want to validate the practices that your firm follows, this webinar will help. The objective of this webinar is to provide a concise yet practical primer on foundation strengthening and underpinning practices in the United States. The presentation offers a broad overview of everyday challenges associated with this work, supplemented by a host of practical design details and several case studies.

The webinar begins with an overview of the reasons foundations require strengthening. After explaining the basic philosophy of foundation strengthening and underpinning, the instructor examines the available approaches in detail. The first one is an often overlooked but typically cost-effective method of adding structural supports in lieu of strengthening existing foundations. Next on the agenda is

shoring and replacement of foundations with larger or deeper ones, followed by other techniques.

The largest webinar segment is devoted to underpinning, including both the pit variety and the various methods using drilled piers, micropiles, and proprietary piers.

Learning Outcomes/Benefits

- Methods of strengthening building foundations
- Where pit underpinning might be appropriate and where other strengthening methods are more useful
- Techniques for strengthening rubble foundations
- How minipiles & proprietary piers can strengthen foundations
- Modern methods of soil improvement used in lieu of the conventional underpinning techniques

Webinar Outline

- Introduction: Why strengthen foundations
- General approach and methods
- Adding supports
- Shoring and replacement
- Underpinning (Pit and piers/minipiles/proprietary piers)
- Enlarging footings
- Other strengthening topics
- Modifying soil properties
- Conclusion

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.

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).



ROBERT O'SHEA ENGINEERING ETHICS AWARD

The Ohio Council of ASCE is seeking papers from Ohio ASCE Student Chapters/Clubs and Younger Members Groups for the 2015 Robert O'Shea Engineering Ethics Award. One winner will be selected to receive an award certificate and a cash award in the amount of \$500.00. The organization to which the winner is affiliated (Student Chapter/Club for a student, Section Younger Members Group for a younger member) will receive the cash award. The author of the paper representing the organization that is selected as the winner will receive the award certificate.

Younger members of any of the Ohio Sections of ASCE and undergraduate members of the ASCE Student Chapters/Clubs from any college or university located in Ohio who are in good standing at the time their papers are submitted are eligible to author the paper. Each Younger Member Group from a Section located in Ohio and each Student Chapter/Club from a college or university located in Ohio may submit one paper to the competition. The author may be selected

in any manner by the Younger Members Group or Student Chapter/Club according to local practice.

Papers are to be submitted using the topic of the 2015 National ASCE Daniel W. Mead Prize, and papers submitted for the Robert O'Shea Engineering Ethics Award may also be submitted for the Daniel W. Mead Prize. The 2015 Mead Prize topic for students is "Should the Engineer of Record (who has sealed a set of plans) be held responsible, to any degree, for injury or death to builders or bystanders that occurs during the construction of his/her design?" The 2015 Mead Prize topic for younger members is similar but authors need to review the instructions for the 2015 Mead Prize for Younger Members [HERE](#).

Papers shall not exceed 2,000 words and must be submitted by March 1, 2015. Individuals interested in submitting should contact their respective Younger Member Group or Student Chapter/Club for additional details and requirements.

2015 OHIO CONSTRUCTION CONFERENCE

What: Ohio Construction Conference

When: March 19, 2015

Where: The Ohio Union - 1739 North High St.

Save the date for the 2014 Ohio Construction Conference, presented by McGraw Hill Construction and The Builders Exchange of Central Ohio. The conference will bring together a unique mix of industry leaders in the commercial construction community - representing owners and facility managers,



architects and engineers, contractors and subcontractors, and industry suppliers in a

constructive, collaborative conference aimed to benefit each component of a project team.

For additional information, click [HERE](#).

MEMBERSHIP RENEWAL

2015 ASCE SECTION RENEWAL

The Race Is On.



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 and renew your ASCE membership by December 12, 2014. 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!

Current Standings (Medium Section Size, as of November 19, 2014): 1. Alaska, 2. Montana, 3. Iowa, 4. New Hampshire, 5. Maine.

PAJK NAMED ASCE FEDERAL ADVOCATE

We are proud to announce that Jim Pajk has been selected to serve as an ASCE Federal Advocate, a 2 year volunteer position to be a liaison between ASCE and Federal legislators. The goal of the position is to develop relationships with federal elected officials and local staff members to advance ASCE's priority issues. The position will also be utilized to share ASCE's priority issues with local ASCE Section and Branch leaders and members to encourage advocacy from a local level.

Jim is a past Central Ohio Section president and is currently an officer with the Ohio Council of Sections of ASCE. He was selected for the position based on his prior experience with legislative issues with public officials, especially with "priority" legislators serving on Congressional Committees in a position to advance ASCE issues.

Congratulations Jim, and thank you for your service in this important position!

PIPELINES 2015 CONFERENCE

Abstracts are now being solicited for ASCE's 2015 International Pipelines Conference which will take place August 23-26 in Baltimore, Maryland. Our own Firat Sever, secretary of the Central Ohio Section, serves as co-chair for this technical program.

The conference theme is 'Recent Advances in Underground Pipeline Engineering & Construction' within the transmission, distribution, and collection of pipelines and tunnels in the water, wastewater, stormwater, drainage, and oil & gas sectors. Abstracts for technical papers are welcomed in the following five thematic broad areas of interest, and may present historical evolution of practice, current practice, technical innovations, case histories of successful projects, lessons learned from failure investigations, and academic research:

- Planning & Analysis
- Design & Construction
- Regulatory, Safety & Risk Considerations
- Assessment & Rehabilitation
- Operations, Maintenance & Management



Prospective authors for ASCE's Pipelines 2015 Conference are invited to submit a one-page abstract in English not to exceed 500 words outlining the scope of the paper and the principal points they believe would benefit the professional community. The abstracts must be prepared in MS Word and submitted electronically by Thursday, November 13, 2014 to ASCE at <http://submissions.miramart.com/ASCE/Pipeline2015>. Abstracts for Pipelines 2015 should include the following information about the primary author and any co-authors: name, credential (e.g., P.E., Ph.D., M. ASCE), title, affiliation of authors, complete mailing address, telephone and fax numbers, and email address. Pipeline Division or ASCE membership is not required for submission.

For additional information please visit <http://www.pipelinesconference.org/program/submissions/>

ASCE MUSICAL MISSION



Video Contest for students and younger members.

Create a short parody of a popular song, or create your own song. Include lyrics that align with you experience as a civil engineering student or civil engineer, and you could win money for the Student Chapter or Younger

Why aren't there more songs about Civil Engineering? ASCE is announcing a 2014 Music

Member Group. Videos will be judged on content, creative delivery and relevancy to the profession of civil engineering.

The grand prize is \$5,000 awarded to the Student Chapter or Younger Member Group! Prizes will be awarded to the top videos in two categories: Student Videos and Younger Member Videos. Those who submit the first 100 qualified entries will receive a \$100 bonus just for entering.

The deadline is December 14, 2014. Submit your entry at <http://woodbox.com/VHV8X9>. For full contest rules and additional information please click [HERE](#).

2014 - 2015 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday December 18, 2014 Lunch	Blueprint Columbus	ASCE	OSU Fawcett Center	Greg Barden
Thursday January 22, 2015 Lunch	EWB Update - Santo Domingo Flood Control	ASCE/ EWB	Crowne Plaza North	Amanda Engle
Thursday February 26, 2015 Lunch	Engineers Week	All	Bridgewater Conference Center	Engineers Week Committee
Thursday March 26, 2015 Lunch	Bridge Park Development	ASCE/ SEAoO	Villa Milano	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

OSU MASTERS LEVEL STRUCTURES COURSES

The Ohio State University Department of Civil, Environmental & Geodetic Engineering announces the introduction of structures graduate-level courses beginning at 4:00 PM that may be of interest to Central Ohio working professionals. These courses start in the Spring semester of 2015 and include Earthquake Engineering and Advanced Behavior and Design

of Metal Structures.

Additional information may be found the

University's College of Engineering

website at <https://ceg.osu.edu/graduate>.

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BOARD MEETING

Our Next Board Meeting

Will Be 11:30 AM

January 8, 2015

Location: Stantec

1500 Lake Shore Drive, Suite 100
Columbus OH 43204

REGIONAL CONTINUING EDUCATION SEMINARS

ASCE's Continuing Education Department is proud to announce the schedule of seminars and workshops for the fall in winter in the Region 3 geographic area. Additional information on these seminars may be found at the following website: <http://mylearning.asce.org/diweb/catalog/t/2116/c/79>. These face-to-face seminars are comprised of small groups of like-

minded individuals, allowing for personalized attention from instructors to meet your needs. More than 200 courses take place across the nation for a variety of specialty areas. Register two or more individuals from the same organization for the same Seminar (title, date, and location) and save 10% on each seminar registration.

Program	Full Dates	City/State
Design of Concrete Pavements — NEW	November 6—7, 2014	Cincinnati, OH
Structural-Vibration Analysis: Design and Troubleshooting	November 19—21, 2014	Chicago, IL
Designing Nonbuilding Structures Using ASCE/SEI 7-10 ~NEWLY UPDATED	December 4—5, 2014	Cincinnati, OH
Managing the Design Process: Keeping on Schedule, within Budget, and Selecting the Right Resources	December 11—12, 2014	Chicago, IL
Instrumentation and Monitoring Bootcamp: Planning, Execution, and Measurement Uncertainty for Structural and Geotechnical Construction Projects	February 26—27, 2015	Chicago, IL
Wind Loads for Buildings and Other Structures	February 5—6, 2015	Chicago, IL
Leadership Development for the Engineer	March 5—6, 2015	Cincinnati, OH

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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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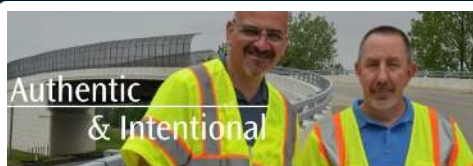
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