

ASCE Newsletter

Central Ohio Section

November, 2012
Volume 17, Issue 3

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NOVEMBER LUNCH

DATE: Thurs. November 15, 2012 - 11:30 A.M. Registration - 12:00 P.M. Presentation and Lunch
A joint meeting with Structural Engineers Association of Ohio - Columbus Chapter

LOCATION: Villa Milano, 1630 Schrock Road, Columbus, Oh 43229

SPEAKER: David W. Jones, P.E. - Principal
Jones-Stuckey Ltd., Inc.

TOPIC: **Broadmeadows Pedestrian Bridge over the Olentangy River**

The artistic Broadmeadows Pedestrian Bridge over the Olentangy River, just south of Antrim Park, is visible along the east side of State Route 315. As usual with bridges, structural steel and concrete, geotechnical and hydraulic engineering all go into the design. David Jones will present important and unique design considerations for pedestrian bridges made with glue laminated timber arches such as: corrosion considerations of fasteners treated with wood, the unique criss-crossed arches, and other design features.



MENU: Lasagna (with meat sauce) or Lasagna Cacciatora (vegetarian) -please specify at registration.

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

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

REGISTER: **Registration is due by 5:00 PM on Mon., Nov. 12.** 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,

I hope to see everyone at the November lunch meeting. The engineering behind a very interesting pedestrian bridge along one of central Ohio's longest biking and walking trails will be discussed.

The section board has been discussing ways to provide more benefits to our section members. If there is anything that the section can do to benefit its members, let one of the board members know.

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 on its website.

The Ohio sections of ASCE continue work on the next revision of the infrastructure report card. If you would be interested in helping with this project, please let one of the board members know.

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

MEMBERSHIP RENEWAL RACE



The race is on to renew your ASCE National and Central Ohio Section Membership now. If you renew by December 14, 2012, the Central Ohio Section could be the lucky winner of a \$1,000 cash prize to support our local programs. Prizes will be awarded based on the highest percentage of renewing members in three categories - Large, Medium, and Small sections. To renew now, please click [HERE](#). Thank you in advance for your support and your continued membership.

2011 Large Winner:
Louisiana

2011 Medium Winner:
Iowa

2011 Small Winner:
North Dakota

Current ASCE Section Standings: (last updated 10/30/2012)

LARGE SECTIONS:

Louisiana
Maryland
Seattle
Virginia
Oregon

MEDIUM SECTIONS:

Iowa
Kentucky
Alaska
New Hampshire
Utah

SMALL SECTIONS:

North Dakota
Akron-Canton
West Virginia
Kansas
Arkansas

YOUNGER MEMBER OSU GAME WATCH

The Younger Member Group and the OSU Student Chapter hosted a Buckeye football watch party on September 29 for the Ohio State-Michigan State game at Buffalo Wild Wings on the OSU campus. In attendance were 6 Younger Members and 12 students. The group saw a great game as the No. 14 ranked Buckeyes held off the No. 20 ranked Spartans 17-16 in East Lansing. A good time was had by all!



FREE CONTINUING EDUCATION WEBINARS

What: Free Continuing Education Webinars

When: Monthly or Bi-Monthly, over lunch hour

Where: A participating Section Member's office or other venue

Who: Open to all Central Ohio Section Members



As a service to our members, the Central Ohio Section is considering sponsoring free continuing education webinars through the ASCE National website. Webinars will be evaluated based on member interest and expected participation, and will typically be held over a lunch hour. Lunch will not be provided. A complete list of available webinars is available by clicking [HERE](#).

ASCE's webinars use teleconferencing and Microsoft Live Meeting Professional software to make the events an actual live, interactive learning experience. You will be able to ask the instructor questions and get live real time answers. The instructor will be able to conduct

polls to gauge your interest in certain areas and ask you questions as well. Webinar materials/handouts will be provided prior to the webinar and you will be able to view the instructor's Power Point slides during the webinar. Webinars have a much higher impact than simply reading material on the web.

In order to gauge participation, **we request your feedback.**

1. Please evaluate the list of available topics [HERE](#).
2. Respond to newsletter@centralohioasce.com expressing your interest in a particular webinar during the months of December through March.
3. We are also looking for host locations. If your company or organization would be interested in hosting a webinar in your conference room and opening it up to other interested Section Members, please also respond accordingly.
4. Based on feedback provided, upcoming webinars will be advertised in the newsletter, on the Central Ohio Section website, and via email.

FREE WEBINAR - AN INTRO TO HEC-HMS

What: Free Continuing Education Webinar
1.0 PDH

When: Monday, Nov. 26, 2012
11:30 AM - 12:30 PM
Bring your own lunch

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

Who: Open to all Central Ohio Section Members

Topic: An Introduction to HEC-HMS

Details: [Click Here](#)

RSVP: To newsletter@centralohioasce.com by Wednesday, November 21. Please include "November ASCE Webinar" in the subject line.



*Seating is limited to the first 25 people.

The analysis and design of most drainage-related infrastructure (channels, culverts, bridges, reservoirs, etc.) requires the determination of a peak flowrate or a runoff hydrograph. The U.S. Army Corps of Engineers Hydrologic Engineering Center's HEC-HMS software program is commonly used for this task.

However, the HEC-HMS program has many other features and capabilities in addition to peak flow and runoff hydrograph calculations. This seminar will provide participants who have little to no experience with HEC-HMS an overview of the model's capabilities, functionality, methodologies, input, and output. The webinar will provide busy professionals who may not have the time or inclination to explore the software on their own time a way to gain exposure to the program.

Webinar Benefits

- Understand the functionality of the HEC-HMS software package
- Discuss various hydrologic applications of the software package
- Learn what input is required by the program
- See examples of output from the program

Webinar Outline

- Introduction to the program
- Program applications
- Program structure and organization
- Methodologies included in the software
- Model input and output
- Limitations

SEPTEMBER CONSTRUCTION JUMPS 16 %

The recently released McGraw Hill Construction report shows construction advanced 16% compared to August, which continues the gains seen in the previous month. September saw a major increase in activity in nonbuilding construction, but modest losses in residential and nonresidential sectors. Through the month of September, total construction starts totaled \$349.6 billion, an increase of 5% from the same period in 2011.

The largest increase was realized in nonbuilding construction, which grew 67% from the previous month to \$197.9 billion, powered by several large gas and electricity utility projects. To date, nonbuilding construction is trending 6% higher than through the same period a year ago. Public works construction, fueled by environmental projects, increased by 10%. Highways fell 1% and bridges 24% during the month, including a combined 19% in Ohio.

Nonresidential building dropped 5% to \$139.0 billion, which is still down 12% from a year ago. Most project types in the institutional sector dropped, with exception of healthcare facilities, which increased by 5%, and public buildings up 2%. Commercial construction increased, aided by warehouse (60%), hotel (37%), retail (11%), and office (10%). Manufacturing dropped 10%.

Residential construction fell 1% from last month to a total of \$170.3 billion, still up 26% from a year ago. The gains since 2011 are fueled largely by an increase in single family housing (25%) and multifamily housing (30%).

Overall, total construction in the Midwest region was up 6% to date compared to 2011.

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
Structural Design of Buildings and Industrial Facilities for Blast Loads and Accidental Chemical Explosions	November 14 - 16, 2012	Cleveland, OH
Seismic Hazard Evaluation and Mitigation Using Simple Methods -NEW	December 6 - 7, 2012	Chicago, IL
Financial Management for the Professional Engineer	January 17 - 18, 2013	Minneapolis, MN
Risk- Based Seismic Design and Evaluation	January 17 - 18, 2013	Chicago, IL
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 November 15, 2012 Lunch	Broadmeadows Pedestrian Bridge over Olentangy River	ASCE / SEAoO	Villa Milano, Westerville	William Zacharias Fae Garstang
Thursday December 20, 2012 Lunch	Columbus Solids Treatment Utilization Master Plan	ASCE / City of Columbus	Villa Milano, Westerville	Greg Barden
Thursday January 17, 2013 Lunch	Columbus Airport Updates	ASCE Younger Members	Villa Milano, Westerville	Stephanie Phillips
T.B.D. February 18, 2013 Lunch	Engineers' Week	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)

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 November 29, 2012.
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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