

ASCE Newsletter

Central Ohio Section

September, 2013
Volume 18, Issue 1

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SEPTEMBER LUNCHEON

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

LOCATION: The Boat House at Confluence Park, 679 West Spring Street, Columbus, OH

**TOPIC: Engineering
Lessons Learned**

Have you ever been involved in a project where things went wrong and you wish you had the foresight to prevent the problems? This joint luncheon with the Engineers Club of Columbus and the Ohio Society of Professional Engineers will offer three prominent speakers on the subject.



SPEAKERS: Shawn Thompson, PE (CH2M Hill) - Design Build Perspective
Gary Gardner, PE (ms Consultants) - Designer Perspective
Michael Killilea II (The Righter Company) - Contractor Perspective

MENU: Buffet style lunch with great river view of downtown Columbus.

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, \$25 guests.

REGISTER: Contact Engineers Club vice president Joe Bolzenius at jbolzenius@patrickco.com or 614-354-4933.

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 Engineers Club of Columbus.

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LETTER FROM THE PRESIDENT

Central Ohio Section Members:

It is a great honor to be your president for 2013-2014. This year, like in the past years, we have a lineup of fantastic activities in mind for you such as seminars, webinars and luncheons, dealing with almost every area of civil engineering (structural, water resources, geotechnical, transportation, bridges, etc.) as well as in programs in engineering management, project management and ethics. Our first upcoming luncheon meeting will be on the important subject of **“Engineering Lessons Learned”**. This will be a joint meeting with Engineering Club of Columbus. It will be held September 12th at the Boat House at Confluence Park. Please make every effort to take advantage of this great presentation!

In the upcoming months, we will have many luncheons and dinners with quality speakers on subjects affecting us either locally, nationally or globally. Here is a preview of some the upcoming luncheons that we are currently working on:

Columbus Commons; Temporary Railroads; Zoo Safari; Engineers’ Week in February 2014; Oil & Gas “Fracking” Issues; Columbus Main Street Dam; and Columbus bio-filters. I hope you will take advantage of these.

In the near future, we will bring to your attention our free webinars. The webinars will be held at places where we can attract as many ASCE member participants. Our selection committee will ensure that subjects will be greatly useful ones and will earn you PDH’s. We will also allocate small scholarship awards for OU and OSU civil engineering.

As valued members of Central Ohio ASCE, please feel free to provide me with your inputs to serve you better in the upcoming months.

Regards,

Michael Navabi, PE, D.WRE, BCEE, F.ASCE

President – ASCE Central Ohio Section

President@CentralOhioASCE.com

OU STUDENT CHAPTER GOLF OUTING



Please mark your calendars and plan on attending

the 7th Annual Ohio University ASCE Student Chapter golf outing, the main annual fundraising event for the student chapter. The event will be held on Saturday, October 5 beginning at 9:00 AM at the Ohio University Golf Course. The four-person scramble format will bring together students, faculty, alumni, and friends. A social

will follow the outing at Broney’s Alumni Bar & Grill on Court Street.



Cost for individuals is \$80 (\$50 for students) and includes greens fees and a cart for 18 holes, snacks, beverages, dinner, and social at Broney’s. Deadline for registration is Friday, September 20. Please contact Andy Doles at ad268209@ohio.edu to register and for more information.

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,

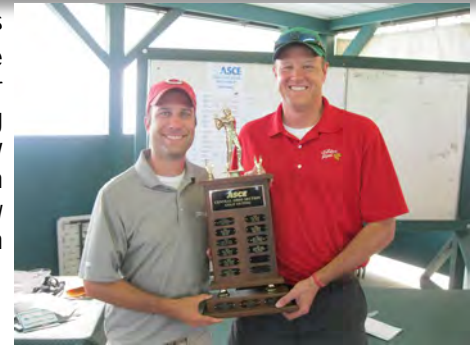
and broader infrastructure components of the shale oil and gas exploitation cycle.

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 GOLF OUTING A HIT!

With great weather and a golf course in excellent shape, 82 golfers participated in the 17th annual Central Ohio Section Golf Outing. The outing raised a record amount, just under \$3,000, to support the Younger Member Group and the ASCE Central Ohio Section Civil Engineering Career Day. The golfers were joined by five motorcycle riders at Darby Creek Golf Course for dinner after an afternoon ride through Union County. Mike Couvreur and Nick McCullough posted the winning low score of one under par with Jay Muether and Ryan Mraz coming in second with an even par score.



Prize hole winners included:

Closest to the pin: Kevin Carpenter, #7, Chris Shea #11 and John McGeorge #16

Closest to the pin, 2nd shot: Mike Mazzoli #8, Zach Freshner #10 and Kevin Carpenter #15

Longest Drive: Dave Rourke #12 and Branden Strittmatter #17

Longest Putt: Tony Falter #9, Greg Colvin #13, Mike Couvreur #14 and Curt Spence #18

Winning Poker Hand (Holes 1 through 5): Jeff Feltz and Jim Pajk

Many other prizes were given away for selected placings.

As always, one of the main highlights is the lunch and dinner that is prepared by the Younger Member Group, who benefits from the outing proceeds. Lunch included hamburgers, hot dogs and snacks and dinner included steaks, chicken, sides and the always popular and required pie selection. A big thanks to the following and their company for allowing them to take time off to volunteer for this event: Matt Marquis - S&ME, Eric Biehl - ODOT, Stephanie Phillips - Parsons Brinckerhoff, Michael Romanello - S&ME.



(ABOVE) Golfers and motorcyclists enjoying dinner.



(LEFT) L-R, Michael Romanello, Eric Biehl, Matt Marquis, Stephanie Phillips.

A HUGE thank you goes out to the 31 sponsors of this outing who make this outing special and allow net proceeds to benefit the Younger Member Group and the Civil Engineering Career Day. The outing has raised close to \$31,000 in its history. We would like to thank the following sponsors in particular for extra support by sponsoring lunch, dinner, or the beverage cart:

Barr Prevost Jones-Stuckey TranSystems Team Fishel CM Transportation Ohio Wetlands Foundation

Another special thanks to **Geotechnical Consultants, Inc.** who is the only firm to have sponsored all 17 outings!!

Companies that have sponsored at least 10 years - *Gannett Fleming, E.P. Ferris and Associates, Spence Environmental, DLZ, URS, Ohio Wetlands Foundation, Jones-Stuckey, EL Robinson, Korda Engineering, Anderson Concrete, Ohio Ready Mix Concrete Association, RW Armstrong, The Ohio State University, Stantec, Kleingers, CTL Engineering, PSI*

And the rest of our important sponsors - *Mead and Hunt, Prime Engineering, Crawford, Murphy and Tilly, CT Consultants, EDG, Jobes Henderson, GPD, ADS*

If you have any questions, comments or suggestions to improve the outing, would like to include your firm as a possible sponsor for next year or you are a younger member that would like to help out with the outing, please contact Jim Pajk at 614-525-3021 or jpajk@franklincountyengineer.org

ASCE HEADQUARTERS EARNS LEED GOLD

The ASCE Foundation, owner of ASCE's National Headquarters building in Reston, Virginia, has announced that the U.S. Green Building Council (USGBC) has certified the recently renovated building as LEED Gold Certification. This follows ASCE's sustainability initiative and the Foundation's pledge that, "In the continuing life cycle maintenance and refurbishment of its headquarters, and other facilities owned and leased, utilize sustainable (green) building standards and practices, wherever feasible, to demonstrate and promote sustainable technologies."

The building was constructed in 1985, underwent major renovations in 1995-1997 and 2008-2009, and consists of approximately 125,000 square feet of space.

Some of the measures used to achieve the rating included:

- Upgrading all 44 toilets to auto-flush, gaining a 30% reduction in water usage.
- A major lighting upgrade replaced all fixtures and implemented occupancy sensors to save \$32,000 in annual electricity costs.
- Sub-meter of the computer server rooms.
- Tracking greenhouse gases saved 209 metric tons of emissions in 2012 alone.

-Building Exterior and Hardscape Management Plan reduces chemical and pollution runoff.

-Sensors on irrigation system to reduce water usage.

-Building commissioning to ensure systems are operating efficiently.

-Policy to encourage the use of only of green cleaning products and practices.

-Purchasing program to increase recycled content of materials to 50% or more.

-Waste management improved recycling from 30% to 50%.

The LEED rating system, developed and administered by the USGBC, is designed to promote design and construction practices that increase a building's profitability while also reducing its negative environmental impacts and improving occupant health and well-being. The LEED rating system offers four certification levels - Certified, Silver, Gold and Platinum - corresponding to the number of credits accrued in five green design categories: sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality.

REGION 3 RAISE THE BAR RESOLUTION

ASCE Region 3, comprised of Ohio, North Dakota, Minnesota, Wisconsin, Michigan, and Illinois, representatives met in August and adopted a resolution on ASCE National's "Raise the Bar" (RTB) initiative. Only one branch and no sections within Region 3 endorsed the current RTB initiative. The adopted resolution will be submitted to the ASCE Executive Committee to support changes to the RTB strategy, and reads as follows:

RESOLUTION OF THE ASCE REGION 3 BOARD OF GOVERNORS

Strategic Initiative: Competency

WHEREAS, the American Society of Civil Engineers has as one of its Fundamental Principles that Engineers should strive to increase the competence and prestige of the engineering profession;

WHEREAS, the Board of Governors has engaged in a seven month long study of the merits of the Strategic Initiative, the challenges of implementing said Strategic Initiative, and the member support of said Strategic Initiative;

WHEREAS, the Board of Governors has considered the past cost, the current cost, and the future cost of influencing legislative change in every state;

WHEREAS, the Board of Governors has assessed the degree of support of the Region 3 membership for state legislative changes;

WHEREAS, This matter being addressed at a properly called meeting of the Region 3 Assembly;

NOW THEREFORE, under the democratic direction of the Region 3 Assembly, the Region 3 Board of Governors resolves that:

1) The American Society of Civil Engineers continue to develop, define, and disseminate optimal education, internship, experience, and examination goals for its members in regards to the link between competency and professional licensure; and

a. Coordinate a consistent approach on CEU requirements for FE and PE across all 50 states; and

b. Focus ASCE resources on creating effective and cost-efficient training courses that increase the BOK; and

c. Consider requiring more experience prior to obtaining the PE license (e.g., 5 or 6 years); and

d. ASCE should engage Universities on course content requirements to increase the BOK for specific topics.

2) The American Society of Civil Engineers develop a more effective strategy to engage other engineering professional and technical societies regarding the development, definition, and promotion of the link between competency and professional licensure.

FREE WEBINAR - MSE WALLS

What: Free Continuing Education Webinar - 1.5 PDH

When: Tuesday, Sept. 24, 2013
11:30 AM - 1:00 PM

Bring your own lunch

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

Topic: **Geosynthetic Reinforced Mechanically Stabilized Earth (MSE) Walls**

RSVP: To newsletter@centralohioasce.org by Friday, September 20, 2013.



control and inspection, and (iii) lack of proper drainage routing and control. The presentation includes a discussion of improper procedures with respect to these concerns. Lastly, the transition from precast concrete block to vegetated facings is illustrated by many actual situations in the transportation, geotechnical and geoenvironmental areas.

Webinar Outline

- Background and aesthetics
- Retaining wall costs
- Design approaches and MSE wall example
- Cases of inadequate performance
- Concerns regarding inadequate performance
- The new paradigm; vegetative wall facings
- Summary and conclusions

*Open only to Central Ohio Section Members.

*Seating is limited to the first 25 people.

Precast concrete block and vegetative faced retaining walls reinforced by geogrids or geotextiles are in a period of enormous growth. Estimates are that 35,000 of these walls exist and that they accommodate the entire range of practical design considerations. This webinar gives a perspective on the evolution of retaining walls in general and follows with results of a recent cost survey. It is seen that geosynthetic reinforced MSE walls are the least expensive of all wall categories and at all wall heights. Three design methods are then compared to one another using a numeric example showing that the modified Rankine method is the most conservative, the FHWA method is intermediate, and the NCMA method is the least conservative.

A survey of walls which suffered either excessive deformation or actual collapse is included. The causes for these cases of inadequate performance are (i) backfilling with fine grained silt and clay soils, (ii) lack of adequate quality

Learning Outcomes/Benefits

- Obtain cost comparisons of different wall types
- Learn about the wide variety of wall applications
- Improve your understanding by comparison of three different design approaches
- Learn from examples of inadequate performance
- Understand specific concerns (both design and construction) in light of inadequate performance and benefit from recommendations in light of these

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
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

2013-2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday September 12, 2013 Lunch	Engineering Lessons Learned	ASCE / ECC / OSPE	Boathouse at Confluence Park	ECC
Thursday October 17, 2013 Lunch	OSU North Residential District Transformation	ASCE	OSU	Brooks Vogel
Thursday November 21, 2013 Lunch	Columbus Commons	ASCE	Downtown Columbus	Mike Mazzoli
Thursday December 19, 2013 Lunch	Alkire Road Temporary Railroad Bridge	ASCE	TBD	Jim Pajk
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	ASCE	OSU	Bob Redfield/ Carolyn Merry
Thursday May 15, 2013 Lunch	Columbus Biofilters	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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BOARD MEETING

*Our Next Board Meeting
Will Be 11:30 AM
September 26, 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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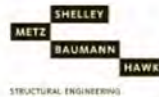


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