

ASCE Newsletter

February, 2014
Volume 18, Issue 6

CONTENT

President's Letter 2

Latest News 2-6

Calendar of Events 7

Newsletter Ads 8-9

Pay Securely
Online On Our
Web Site



FEBRUARY ENGINEERS WEEK LUNCH

DATE: Thurs. Feb. 20, 2014 - 11:30 AM Registration,
12:00 P.M. Lunch & Presentation

LOCATION: Bridgewater Conference Center, 10561
Sawmill Dr, Powell, OH 43065

TOPIC: Make A Difference

You will want to come hear Mr. McCullough's presentation on Engineering a Difference in Tomorrows Infrastructure as we "Make A Difference" during this year's National Engineering Week.

Mark C. McCullough is executive vice president - Generation, responsible for the management of AEP's fossil, hydro and wind generating units and OVEC/IKEC's generating assets. This includes engineering, construction and operation of generating units, and activities related to fuel procurement and emission monitoring and logistics. The Engineering, Projects & Field Services; Fossil & Hydro Generation; and Fuels, Emissions & Logistics groups report to him.

He has served AEP his entire career, since 1981, in a variety of positions, including senior vice president - Fossil & Hydro Generation, responsible for directing the activities of AEP's group of approximately 36,000 MW of fossil and hydro generating facilities and three functional areas: plant engineering/environmental services; asset and outage planning; and technical skills and process optimization. Previously, he was vice president - Fossil & Hydro Generation - Base Load Assets, with oversight and profit and loss (P&L) responsibility for Amos, Gavin, Mountaineer and Rockport plants. Prior to that he was region director - Ohio, Unregulated Generation, with management and P&L responsibility for more than 10,000 MW of coal-fired generation, 800 MW of gas-fired generation, and 2,600 MW of partner-operated coal-fired generation.

SPEAKER: Mark C. McCullough, Executive Vice President - Generation, American Electric Power. McCullough holds a bachelor of science degree in mechanical engineering from Rose Hulman Institute of Technology. He completed the MIT-INPO Reactor Technology Course for Utility Executives in June 2012, and serves as vice chairman for the Coal Utilization Research Council. He is a member of the Boards of HomePort, by the Columbus Housing Partnership, and the Ohio Valley Electric Corporation.

MENU: Choice of Slow Roasted Chicken Breast, Roasted Pork Loin, or Vegetarian entrees

COST: \$25 "Early-Bird" Registration (by February 7), \$35 after February 7. Students Free.

REGISTER: Registration begins January 20, 2014 online at www.columbusengineers.com. Payment in advance via credit or debit cards is strongly encouraged. Registrations at the door (walk-ins) will be accommodated until seating capacity is reached. Cash, Check or Credit card can be accepted at the door.



2013-2014 BOARD OF DIRECTORS

PRESIDENT
Michael Navabi
(614) 839-0379

TREASURER
Carlos Vazquez
(614) 634-7132

1ST VICE PRESIDENT
Mark Seidemann
(614) 486-4383

**MEMBER-AT-LARGE /
NEWSLETTER EDITOR**
Brooks Vogel
(614) 487-1650

2ND VICE PRESIDENT
AJ Smith
(614) 793-8777

SECRETARY
Christopher Nye
(614) 793-2226

WEB SITE EDITOR
Peter Narsavage
(614) 432-4030

LETTER FROM THE PRESIDENT

Central Ohio Section Members:

2014 Engineers' Week (February 16-22) is finally here! Central Ohio ASCE and other local professional engineering organizations again sponsor this year's events. This will be an unparalleled annual get-together to learn beyond our own discipline and to see and learn updates from professionals from almost all other engineering and professional backgrounds. The luncheon will be held at the Bridgewater Conference Center on February 20. The lead presentation will be about "Engineering a Difference in Tomorrow's Infrastructure". Please see details in this newsletter!

The *2014 STEM Expo* will be held on February 22nd, organized by the Central Ohio ASCE Younger Member Group. It is an educational outreach event that will feature hands-on, interactive activities for students grades K-8 sponsored by local companies in the Science, Technology, Engineering and Math fields, with special exhibits from the Ohio State University. See details!

Do not miss this free ASCE on-demand webinar on February 28th: "*Green Infrastructure Mapping and Modeling Tools for CSO and Stormwater Management*", co-sponsored by ASCE's

Environmental & Water Resources Institute (EWRI) and ASCE Continuing Education. It will introduce many modeling techniques (many of them free) to optimize use of green vs. grey infrastructures. This is what City of Columbus needs. Please see details!

2014 Career Day will be in mid-April, a chance for upper class high school students to learn more about the civil engineering field with hands on project visits and information from area Universities. Look for details in our web site as they become available.

Another April event: "*Multi-hazard Geo-Risk Assessment, with a Focus on Long Linear Structures such as Earthen Levees*" will be a lecture. Look for details on our website.

Feel free to provide us input on webinar subjects that you may be interested in. We will ensure that topics will be greatly useful ones and will earn you PDH's.

Regards,

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

President – ASCE Central Ohio Section

President@CentralOhioASCE.com

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.



5 **FREE**
PDHs

NEW BENEFIT!

LEARN YOUR WAY.
EARN PDHs THIS **FREE** WAY ...

Take Five On-Demand Webinars offered by ASCE in 2014.

2014 STEM EXPO



What: 2014 STEM Expo
 When: Saturday, February 22, 2014
 9:00 AM - 1:00 PM
 Where: The Metro School (Ohio State campus)
 1929 Kenny Road, Columbus, OH
 Cost: Free!

Registration: Registration is not required, but we ask parents to pre-register at STEMexpo@centralohioasce.com.

The STEM Expo is a FREE central Ohio community outreach event for students in grades K-8 that will feature fun, interactive activities and exhibits in the Science, Technology, Engineering, and Math fields. The event is organized by the ASCE Central Ohio Section Younger Member Group as part of Engineer's Week and also includes participation from many local companies and organizations.

Students who participate will also be able to tour



Ohio State's Center for Automotive Research (CAR) facility. Located next door to the Metro School, the CAS houses OSU student projects such as the Buckeye Bullet car, Baja Buggy, and Electric Motorcycle being developed alongside cutting edge research in the automotive industry.

We are still looking for sponsors and volunteers 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>

Contact STEMexpo@centralohioasce.com to RSVP, sponsor an activity, order T-Shirts, or submit questions. We thank you for your support!



T.H. WU LECTURE - GEO-RISK ASSESSMENT

What: T.H. Wu Lecture
 When: Tues., Mar. 18, 2014
 4:00 PM - 5:00 PM
 Where: The Ohio State Univ.
 Scott Lab, Rm. 100
 201 W. 19th Ave.,
 Columbus, OH



RSVP: Please contact Carol Scott at 614-292-3533 or scott.30@osu.edu

PDH: One (1) PDH credit will be offered

Multi-hazard Geo-Risk Assessment, with a Focus on Long Linear Structures such as Earthen Levees

By Dr. Erik Vanmarcke, Department of Civil and Environmental Engineering, Princeton University

Multi-hazard risk assessment is relevant for spatially distributed systems such as levees, when seeking to allocate limited resources to different 'segments' comprising a long linear 'lifeline' (or a network of such lifelines). To demonstrate a random field concepts based

approach, we assess the risk of sliding of long earth slopes, dams or levees. The stochastic model predicts the 'most likely width' of the failure zone and enables evaluating the mean rate of increase in the 'system failure' risk per unit length.

Dr. Erik Vanmarcke is a professor of civil and environmental engineering at Princeton University. He was on the faculty of the Massachusetts Institute of Technology (M.I.T.) until 1985 since receiving his doctorate there in 1970. He was appointed to the Gilbert W. Winslow Career Development Chair in 1974 and became a full professor in 1978. He held appointments, during sabbatical leaves, at Harvard University, Delft University (in The Netherlands), and the University of Leuven in his native Belgium. He was Shimizu Corporation Visiting Professor at Stanford University and Kwanghua Chair (Visiting) Professor at Tongji University (Shanghai, China). He was the founding editor of the international journal Structural Safety.

CENTRAL OHIO SECTION AWARDS

In preparation for the upcoming awards season, we are seeking nominations for the categories described below.

OUTSTANDING CENTRAL OHIO SECTION MEMBER

Presented by the Central Ohio Section, this award is presented annually to an outstanding member of the Central Ohio Section. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Member of Central Ohio Section in good standing.
2. Has made a significant contribution to the Section through participation in the activities of the Section.
3. Promotes a good image of the Section and its members through their participation and example.



OUTSTANDING CIVIL ENGINEER OF CENTRAL OHIO

Presented by the Central Ohio Section, this award is presented annually to an outstanding civil engineer who doesn't have to be an ASCE member. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Practices or teaches civil engineering in Central Ohio.
2. Must have made a significant contribution to civil engineering profession during the last year.
3. One who exemplifies the public image and perception of the civil engineer and its profession.

HIGHWAY TRUST FUND INSOLVENT BY 2015

The Highway and Mass Transit Trust Fund will be insolvent in Fiscal Year 2015 without new funding to sustain it, the Congressional Budget Office (CBO) reported this week. In its "Budget and Economic Outlook: 2014 to 2024" report, the CBO reported that the Highway Trust Fund (HTF) balance was \$3 billion in FY 2013 and will total an estimated \$2 billion in FY 2014. The HTF balance will not be able to sustain current levels of expenditure before the end of FY 2014, necessitating a transfer from the general fund or a cut in expenditures. This imbalance will continue into FY 2015 unless Congress acts to infuse additional funds. If a new authorization bill to succeed Moving Ahead for Progress in the 21st Century (MAP-21) is not enacted before October 1, 2014, any extensions to continue current levels of funding will require additional spending, and therefore offsets. A three-month extension would require approximately \$3 billion, and a six-month extension would require just under \$5 billion. The Trust Fund baseline assumes that payments will continue to be made "after the trust fund has been exhausted, although there is no legal authority to make such payments," the CBO said.



A legislative priority for ASCE is the passage of a new long-term surface transportation funding act in 2014. The House Transportation and Infrastructure Committee invited ASCE to a roundtable meeting to articulate the Society's case for passage of a new act this term. ASCE leaders were joined by those from the American Road & Transportation Builders Association, the Associated General Contractors, the National Stone, Sand, and Gravel Association and the American Council of Engineering Companies. ASCE stressed that the most infrastructure "bang for the buck" will come when a greater emphasis is placed on operation and maintenance, including sustainability and resiliency, as well as a full accounting of life-cycle costs. Dedicated revenue for freight rail expansion was also pushed, which would help relieve highways of an increasing burden.

CIVIL ENGINEERING ACHIEVEMENT AWARD

Ohio Outstanding Civil Engineering Achievement Award Criteria

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

Only projects meeting the following requirements in the calendar year of the award are eligible:

1. Bridges, tunnels, waterway structures, roads (other than toll roads) are eligible only when carrying traffic. The time of dedication or final completion is not important.
2. Toll or similar regional roads may be entered for the year's award when it is 75 percent complete. Any portion in use may be eligible on its own merit.
3. Water supply, flood control, and power dams are eligible when ready to take the full design head of water. For power dams, it is not important when power goes on line.

4. Power plants, including nuclear, are eligible when power goes on line.
5. Buildings and structures are eligible when ready for use.
6. Airports and similar large developments are eligible when a structure or feature is operational. However, such structures or features must stand on their own merit in the competition with no consideration given for the overall project. The entire project may be considered for the year's award when it is 75 percent operational in its initial stage.
7. Any portion of a water supply and waste control project may be eligible in its year of completion, but that portion will be considered on its own merits, not as representing the overall project. Where only additional units, similar to those already functional, remain to be completed, the entire project may be considered for the year's award when it is 50 percent operational in its initial stage.
8. Military projects are eligible for their civil engineering aspects.
9. The judges will determine eligibility for projects that do not fall within any of the above categories. Ohio Council will give the judges as much latitude as possible in determining eligibility and making their final selection.
10. No project or component part thereof is reconsidered after receiving an award.

Submittals

Entries should be submitted to the Ohio OCEA Chair, Al Esser, no later than 5:00 PM, Friday, February 28, 2014. An entry form and additional information can be found at <http://ohioasce.org/OCEA>.

If you have any questions concerning your project's eligibility or how to submit your nomination, please call Al Esser at 440-256-6500, or send e-mail to esser@sme-usa.com.

CALL FOR CAD INSTRUCTION VOLUNTEERS

Beginning in January, the ASCE Younger



Member Group began presenting instructional Autodesk Civil3D Computer Aided Design (CAD) seminars on the campus of the Ohio State University. The seminars introduce students to drafting software and provide an introductory level of instruction to familiarize students with the skills necessary of a typical entry-level engineering position. The sessions are bi-weekly sessions, and any assistance from the Central Ohio Section to help supplement our teaching group would allow us to add more lessons for the students. This is also a great way to see prospective interns in action learning valuable job skills. Please contact Matt Baxendell (Matt.Baxendell@woolpert.com) if you're interested in taking part.

FREE WEBINAR - GREEN INFRASTRUCTURE

What: Free Webinar - 1.5 PDH

When: Friday, Feb. 28, 2014

12:00 PM - 1:30 PM

Bring your own lunch

Where: Prime AE Group

3000 Corporate Exchange Dr., Ste 600

Columbus, OH 43231

Topic: Green Infrastructure Mapping and Modeling Tools for CSO and Stormwater Management

RSVP: To Mnavabi@PrimeEng.com by Mon., Feb. 24, 2014.



Webinar Outline

- Webinar introduction
- Green infrastructure types
- Triple bottom line: benefits and limitations of green solutions
- LID/GI design criteria
- GIS applications
- Hydrologic & hydraulic modeling applications
- Examples and case studies

Learning Outcomes / Benefits

- Triple bottom line: Benefits and limitations of green infrastructure for CSO and stormwater management
- Green infrastructure types and placement criteria for CSO and stormwater management
- GIS applications to determine potential green infrastructure locations
- Hydrologic & hydraulic modeling applications to estimate the performance of green infrastructure
- Examples and case studies
- Compare green and gray solutions
- Learn how to quantify runoff and sewer overflow reductions using green solutions
- Find out the latest green infrastructure mapping and modeling programs
- See innovative GIS and modeling applications for planning and designing green solutions
- Customize the default criteria for your LID/GI projects
- Evaluate the cost effectiveness of your LID/GI projects
- Avoid costly mistakes by using wrong data and programs

*Open only to Central Ohio Section Members.

*Seating is limited to the first 25 people.

Stormwater Low Impact Development / Green Infrastructure (LID/GI) controls are sustainable development practices designed to capture surface runoff using some combination of detention, infiltration, and evapotranspiration. Recently, stormwater utilities have started to embrace the use of LID/GI controls as a viable means of managing stormwater runoff from new and existing development. However, the benefit that this type of sustainable infrastructure can play in the reduction of combined sewer overflow (CSO) discharges is not well understood and is often overlooked.

New hydrologic & hydraulic modeling programs (e.g., LID Modules in U.S. EPA's SWMM5) are now available to quantify the water quality and quantity benefits of green solutions to control stormwater runoff and CSO discharges. New GIS program (e.g., U.S. EPA's SUSTAIN) can help us locate the high potential areas for implementing green solution using user-specified LID/GI siting criteria. Such tools require specific input data at various resolutions depending on the size of study area. This Webinar summarizes the capabilities and limitations of software tools, data requirements, and required effort.

PATH TO PROFESSIONAL LICENSURE

What: Free Webinar

When: Wed, Feb. 19, 2014

6:30 PM - 7:30 PM

Topic: Your Path to Professional Licensure

RSVP: [HERE](#)

What better time to learn about professional engineering licensure than during National Engineers Week! This ASCE eLearning webinar will describe the step-by-step process to professional licensure

and will cover the basics of the FE and PE examinations relevant to civil engineering students and graduates. The speakers will convey the value of licensure to students and younger members as you make important decisions about the direction you want your careers to take. They will cover changes in the examination and licensure process that are now in effect. In addition, several professionals at nationally recognized firms reveal how licensure has played a role in their success.

2013-2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday February 20, 2014 Lunch	Engineers' Week	All	Bridgewater Conference Center	Engineering Week Committee
Thursday March 20, 2014 Lunch	Ohio Utilities Protection Service	ASCE	TBD	Mark Seidelmann
March 2014 Lunch	ASCE Central Ohio Section Annual Spring Seminar - Oil and Gas Water Resources	ASCE	Cambridge, OH	AJ Smith
Thursday April 17, 2014 Lunch	ASCE National President- Elect Robert Stevens	ASCE	Schmidt's Sausage House	Bob Redfield/ Carolyn Merry
Thursday May 15, 2014 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 13, 2014 Lunch/Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk (ASCE)

OHIO CONSTRUCTION CONFERENCE



connecting owners, designers, contractors & suppliers



What: Ohio Construction Conference

When: March 13, 2014

Where: The Ohio Union - 1739 North High St.

Costs: \$160-\$255

The conference will bring together a 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.

Programming will include sessions on: The Industry's Economic Outlook, Integrated Project Delivery, Wrap-Up Insurance Programs and Professional Liability Insurance, Pre-Fabrication Trends, Workforce Development and Construction Reform Updates.

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

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 11:30 AM

February 27, 2014

Location: Prime AE

3000 Corporate Exchange Dr.
Columbus OH 43231

SHALE ENERGY ENGINEERING CONFERENCE



Pittsburgh, Pennsylvania | July 21 - 23, 2014

New technologies that utilize horizontal drilling and hydraulic fracturing techniques have led to a rapid expansion of the shale oil and gas industry, offering access to new sources of hydrocarbon fuels that hold the promise of energy independence for the United States. At the same time, there has been public concern about the potential environmental effects of these technologies, with environmental regulations being implemented at the state and federal level in response to their rapid deployment.

Civil and Environmental Engineers have as their core mission the protection of the public health, safety, and welfare. The goal of this conference will be to provide a forum for: (1) discussing the

technical challenges associated with shale oil and gas development, (2) exploring the critical environmental issues that exist in this area, and (3) presenting balanced public policy solutions that can be used to safely develop our shale oil and gas resources. The conference will focus on the challenges that lie ahead with developing the means and methods to carefully monitor all aspects of shale oil and gas production, and will encourage and promote the development of technologies that allow for cost effective shale oil and gas exploration, while minimizing the impact on water resources, geological stability of impacted areas, air quality, and infrastructure assets such as roads, pipelines, water, and wastewater networks.

Click [HERE](#) for more information.

OUR PROFESSIONAL SPONSORS

Thank You

ms consultants, inc.
engineers, architects, planners

2221 Schrock Road
Columbus, Ohio 43229-1547
614.898.7100
info@msconsultants.com
www.msconsultants.com

Also follow us on LinkedIn, Facebook and Twitter

Offices in Ohio, Indiana, Pennsylvania, West Virginia & North Carolina

SMBH, Inc. has been serving the needs of the building design and construction industry since 1972.

SMBH
STRUCTURAL ENGINEERING

1166 Dublin Road, Suite 200
Columbus, Ohio 43215-1038
614.481.9800
www.smbhinc.com

SPENCE
Environmental Consulting, Inc.

- Environmental Assessment & Remediation
- BUSTR Corrective Action
- Groundwater Monitoring
- Geotechnical Engineering
- Environmental Compliance & Permitting

70 West Columbus Street, Pickerington, OH 43147
ph: 614.837.4750 www.SpenceEnv.com

Engineering • Planning • Architecture
Environmental • Surveys • Transportation

In Ohio, call
(614) 486-4383

Stantec

One Team. Infinite Solutions.

Rated one of the best structural engineering firms to work for by Structural Engineer Magazine.

Steven Schaefer Associates, Inc.
Consulting Structural Engineers

1000 Columbus Avenue, Columbus, OH 43215-1038 • Fax: 614-481-9800
Columbus, OH 43215-1038

KORDA www.korda.com

Site Development | Transportation | Public Works | Surveying

Alt & Witzig Engineering, Inc.

Geotechnical Engineering • Environmental Services • Construction Quality Control • Special Inspection

2415 Soito Harper Drive, Columbus, Ohio 43204 Ph: (614) 274-7428

CELEBRATING
100 YEARS
1912 - 2012

BURGESS & NIPLE
Engineers • Architects • Planners

5085 Reed Road
Columbus, OH 43220
614.459.2050

Other OH offices: Akron, Cleveland, Cincinnati & Painesville
burgessniple.com

E.L. ROBINSON ENGINEERING

A Full Service Civil Engineering Firm

Highway • Bridges • Geotechnical • Hydraulics • Oil & Natural Gas • Construction Administration

Columbus 614.586.0642 Cleveland 216.452.1890
www.elrobinsonengineering.com

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.



OUR PROFESSIONAL SPONSORS

Thank You

Made In Ohio

CARPENTER MARTY transportation

BRIDGE • SURVEY • TRAFFIC • ROADWAY
RIGHT OF WAY • PUBLIC INVOLVEMENT

7007 Discovery Blvd., Dublin, Ohio • 301.7.46.44.65/247

Put Your Ad Here

Business Card Ad
\$175 / year

Double Business Card Ad
\$350 / year

To purchase a newsletter ad, email your request to newsletter@centralohioasce.com

PRIME
(formerly PRIME Engineering, Inc.)

Bridge Design, Bridge Inspection,
Highway Design, Architecture,
Water Resources and CM/CI

www.primeeng.com

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

8101 North High Street, Ste 150
Columbus, OH 43235
(614) 468-1200

cmtlengr.com

S&ME
26 offices including Columbus, Cleveland & Cincinnati

Environmental Services • Natural & Cultural Resources
Occupational Health & Safety • Water Resources & Solid Waste Engineering
Geotechnical Engineering • Construction Materials Engineering & Testing

www.smeinc.com

Jones-Stuckey

Award-winning Bridges
Bridge Inspection/Load Rating • Highway Design
Civil / Site Design • Sewers • Waterlines
Recreation • Parks • Environmental Studies
Construction Administration

Columbus 614.486.0401
Akron 330.794.7957

www.jonesstuckey.com

DHDC
Engineering Consulting Services, Inc.

Grumman Exploration, Inc.
Near-surface Geophysics
Non-destructive Subsurface Exploration

Services

- Ground-Penetrating Radar
- Electrical Resistivity Imaging
- Electromagnetic Profiling
- Seismic Testing
- Magnetometry

(614) 488-7860
www.GrummanExploration.com
info@GrummanExploration.com

"Look before you dig"

Gannett Fleming
Engineers and Architects, P.C.
Excellence Delivered **As Promised**

Transportation Planning and Design
Bridge Design and Inspection
Geotechnical Engineering and Exploration
Environmental • Design/Build • GIS

Joe Rikk Jr, P.E. • jrikk@gfnet.com • 614.794.9424
www.gannettfleming.com • Offices Worldwide ISO 9001:2008 CERTIFIED

Authentic & Intentional

Mead & Hunt

Engineering | Architecture | Aviation
Construction Services | Historic Preservation
Planning Development | Survey

614-792-5900 | meadhunt.com

RIVER CONSULTING

A Leading Mid-Major A/E to Global Energy, Food, Process and Industrial Clients.

We design some of the most challenging steel and concrete structures for clients around the globe. Visit our website for examples of our projects.

445 Hutchinson Ave., Suite 740
Columbus, Ohio 43235

www.riverconsulting.com

Urban Revitalization | Waste Management | Energy | Environment

Solving complex challenges related to land, energy and the environment.

Hull can help!
Contact 614.793.8777
www.hullinc.com

Hull
& Associates, Inc.



2014 Seminar

Southgate Hotel
2248 Southgate Pkwy.
Cambridge, OH 43725
(Map enclosed)

Wednesday, April 2, 2014
8:00 AM to 5:00 PM

**Earn 7.0
PDHs!**

Water Resources for Shale Oil & Gas Operations in Ohio **Earn 7.0 Professional Development Hours (PDH)!**

WATER RESOURCES FOR SHALE OIL & GAS OPERATIONS IN OHIO SEMINAR

Various Speakers from Industry, Consulting,
Public Agencies, Water Districts (TBA)

At the end of 2013, Ohio had exceeded 1,000 permits for horizontal wells in the Utica shale formation. That number may triple in the next couple years. As demand for water to support operations increases, methods and decision-making processes of finding, storing and conveying fresh water are being developed. Regulations governing the storage and disposal of water are evolving. Technologies are being tested and employed to recycle and reuse wastewater. Learn about these topics from knowledgeable speakers with experience in the industry and management of Ohio's water resources.

Who should attend? Engineering consultants, oil & gas producers, municipalities, vendors, and others interested in learning more about current regulations and practices in the areas of water sourcing, withdrawal, use and disposal.



Seminar Includes: Course Reference Materials, Certificate for 7 Professional Development Hours (Seminar is IACET certified for 0.7 Continuing Education Units), Breakfast, Lunch and Two Breaks.

Format: One Day Seminar, Business Casual Attire

Speaker

Various Speakers (TBA) from:

- Oil & Gas Industry
- Engineering Consulting Firms
- Public Agencies
- Watershed Districts
- Research Organizations

Registration

One registrant per form. Please duplicate this form for additional registrants.

ASCE Members: \$ 100.00
 Non-Members: \$ 150.00
 Students: \$ 50.00
 Registration after March 24, 2014: \$ 200.00

Fee includes morning breakfast, lunch, break refreshments, and parking.

The method of payment is online at www.centralohioasce.com/ by March 28, 2014. Any Checks should be made payable to Central Ohio ASCE.

Please register and pay [online](#) with a credit card. **Registration is due by 4 PM on Friday, March 28, 2014.** Registration fees may still be required for no-shows and registrants canceling after March 28, 2014.

Make checks payable to: Central Ohio ASCE

AJ Smith, Hull & Associates, Inc.
 146 W. Main St., St. Clairsville, OH 43950
 Telephone: (614)793-8777
ajsmith@hullinc.com

Name _____

Company _____

Address _____

City _____

State _____ Zip _____

Phone _____

e-mail _____

Lunch will be buffet style. Please specify preference or any special dietary needs.

Schedule

8:00 - 8:30 Registration / Breakfast

9:00 - 9:30 Topic TBD

9:30 - 10:00 Topic TBD

10:00 - 10:15 Break

10:15 - 12:00 Topic TBD

12:00 - 1:00 Lunch Break

1:00 - 1:45 Topic TBD

1:45 - 3:30 Topic TBD

3:30 - 3:45 Break

3:45 - 5:00 Topic TBD

Directions and Map

DIRECTIONS TO THE EVENT:

Southgate Hotel

2248 Southgate Parkway

Cambridge, Ohio 43725

Phone: (740) 432-7313

From the West:

Take I-70 East toward Wheeling. Take exit 178 and turn left to follow SR 209 north. Hotel is 0.7 miles on left.

From the East:

Take I-70 West toward Columbus. Take exit 178 and turn right to follow SR 209 north. Hotel is 0.7 miles on left.

From the North:

Take I-77 South to I-70 W toward Columbus. Take exit 178 and turn right to follow SR 209 north. Hotel is 0.7 miles on left.

From the South:

Take I-77 North to I-70 W toward Columbus. Take exit 178 and turn right to follow SR 209 north. Hotel is 0.7 miles on left.

