

March, 2014  
Volume 18, Issue 7

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## MARCH LUNCHEON

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

**LOCATION:** City of Columbus Training  
Facility - 1881 East 25th Avenue, Columbus,  
OH 43219

**TOPIC:** Best Practices

The Central Ohio Damage Prevention Council will present the latest "Best Practices" as per the Common Ground Alliance regarding planning and design. They will also discuss the Ohio Utilities Protection Service's role in the design process. Representatives from the local utility companies will be on hand to explain how a design ticket is handled internally with respect to their own company.

The Greater Columbus Damage Prevention Council was created to bring together underground facility operators, government agencies, excavators, industry associations and service providers to address issues related to the goal of reducing damages to underground facilities, to provide cooperation and coordination of construction activities, and to improve communication, involvement, and commitment to these goals.

**SPEAKERS:** Central Ohio Damage Prevention Council

**MENU:** Box lunch and drink.

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

**COST:** \$FREE ASCE Members & Guests, ASCE Life Members, Students.

**REGISTER:** Registration is due by 5:00 PM on Mon., March 13. Registration will be limited to the first 120 individuals. To register for this event please contact Mark Seidemann at 614-844-4015, or [register@centralohioasce.com](mailto:register@centralohioasce.com).



## 2013-2014 BOARD OF DIRECTORS

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## LETTER FROM THE PRESIDENT

Central Ohio Section Members:

Many attended the Engineers' Week in February.

It was great to see many Mid-Ohio engineers.

Here are our upcoming events:

During our March 20<sup>th</sup> luncheon, we will present the Central Ohio Damage Prevention Council's latest "Best Practices". We will also discuss the Ohio Utilities Protection Service's role in the design process. Representatives from the local utility companies will be on hand to explain how a design ticket is handled internally with respect to their own company.

Our annual Spring Seminar will be on April 2 about "Water Resources for Shale & Gas Operations in Ohio". 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. This informative educational seminar will provide attendees with 7 Professional Development Hours (PDHs).

Do not miss our upcoming free live webinar "A Closer Look at Road Diets" on March 28<sup>th</sup>, which will earn you 1 PDH. Look for details in this newsletter.

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](mailto:President@CentralOhioASCE.com)

## DISCOVER ENGINEERING GLOBAL MARATHON

Women in engineering and technology play a critical role in defining how we live and thrive on our shared planet. But in most countries women are under-represented in the Engineering and Technology professions. By coming together to form a global community, the industry can elevate the conversation, support each other and network for a greater good.

The Global Marathon is the launching point. Marathon women meet emerging and established leaders around the world; share stories of everyday as well as special personal and professional challenges and successes; and contribute their voices to what women in Engineering and Technology are saying and doing.

Women from any discipline, experience level, age, interest, culture, industry or employer participate. The marathon fills the need for a connected, facilitated, collaborative place for individuals and organizations.

You can visit our Facebook page at [www.facebook.com/globalmarathon](http://www.facebook.com/globalmarathon) or [HERE](#) for more information, downloads, and resources.



## BLUE JACKETS HOCKEY GAME

What: Blue Jackets vs. Colorado Avalanche

When: Tues. Apr. 1, 2014

Where: Nationwide Arena

Cost: \$10 members, \$15 guests

Based on the popularity of our last Blue Jackets outing, we, in conjunction with ASHE, have a group package of 50 tickets to the Blue Jackets-Avalanche game. Tickets are \$10 per member and \$15 per non-ASCE/ASHE guests. 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 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.



## ASCE CRANE SAFETY SEMINAR



### SAVE THE DATE

What: ASCE Crane Safety Seminar

When: Tuesday, April 29, 2014

Where: Chicago, Illinois

Cost: T.B.A.

OSHA has promulgated new crane safety regulations that will have an impact on design documents, bidding, negotiating, and construction operations. This half day seminar will arm you with the knowledge needed to prevent:

- Costly Change Orders
- Construction Schedule Disruptions
- Re-designs
- Disputes

### Course Objective

To raise awareness of engineers' and management's roles, responsibilities, and influence with regard to safety on the construction worksite including crane safety. The ASCE/CI

Crane Safety Training course will prepare engineers and supervisors to utilize their management and technical training to implement safety as a core objective of the construction project.

### Learning Objectives

- Explore changes to OSHA regulations which place more safety responsibility on engineers, supervisors and owners
- Become familiar with the different types of cranes and hoists
- Cover the procedures for proper inspection and maintenance
- Establish the guidelines for proper equipment testing and load rating capacities
- Outline the proper procedures for crane operators and co-workers
- Outline regulations for load handling and handling equipment
- Identifying the Elements of a crane safety plan

This course is intended for construction engineers, supervisors, and owners, who want to learn more about crane safety on construction sites, and how to develop comprehensive crane safety plans that are both safety-program-compliant and project-specific. The program will also provide high-level technical background relative to crane operations, legal and regulatory explanations; and expert guidance to deal effectively with all players on the project from owner to subcontractor.

## 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](mailto: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](mailto: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](mailto: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.

## OHIO CONSTRUCTION CONFERENCE



What: Ohio Construction Conference  
When: March 13, 2014  
Where: The Ohio Union - 1739 North High St.  
Costs: \$160-\$255

The Central Ohio Section of the American Society of Civil Engineers is pleased to support the 2014 Ohio Construction Conference set for Thursday, March 13 from 7 a.m. to 5 p.m. at The Ohio Union on the campus of The Ohio State University.

With 300 industry leaders expected to attend, the Conference is the largest professional education event in the Midwest. Gathering owners, facility managers, design

professionals, contractors and suppliers, the OCC encourages the exchange of information about regional and national initiatives, as well as best business practices.

The one day conference features a variety of general and breakout sessions, including, "An Owner's Take on Technology: Small Group Discussions Led by Local Owners and Design Professionals." To wrap up a day of dialogue, Conference participants will sit with owners and design professionals at small roundtables to discuss challenges facing the industry.

Cost to attend the Conference is \$255 for the entire day's programming, meals and refreshments. If you can't commit to the entire day, consider a half-day registration for \$160 per person. Firms may also take advantage of a bulk discount for multiple registrations and get 3 full-day registrations for \$550! All registrations are non-refundable but may be transferred to another employee at the firm.

For more information or to register, visit [www.bx.org](http://www.bx.org) or contact Deb Murphy at the Exchange, 614-486-9521, ext. 215 or by email at [dmurphy@bx.org](mailto:dmurphy@bx.org).

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



## STEM EXPO A SUCCESS

The ASCE Central Ohio Section welcomed over 140 students in grades K – 8 at the STEM Expo on February 22, 2014. The students explored hands-on activities and exhibits in the Science, Technology, Engineering, and Math fields sponsored by local firms, professional societies, and educational departments. In addition to over 20 interactive activities and exhibits, the students and their parents were able to tour the Ohio State Center for Automotive Research and participate in an interactive program by BUGMAN Education. Students also received take home activity bags provided by HR Gray.



This educational outreach event was organized by the ASCE Younger Member Group and held at The Metro Early College High School. The event was advertised through Columbus area-wide elementary and middle schools, where information was shared through classroom and upper grade level science teachers as well as electronic media outlets. The cost for the venue was covered through the State Public Affairs Grant program, while all activities and exhibits were provided on a volunteer basis. A full list of activities and exhibits, and a link to event photos can be found on the STEM Expo website at <http://centralohioasce.com/STEM-Expo>. The Younger Member Group would like to thank the



following activity sponsors and exhibitors for making this event so successful:

HR Gray  
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 Structural Engineer's Association of Ohio (SEAoO)  
 Ohio State ASCE Student Chapter  
 National Engineer's Week Foundation  
 Ohio State Center for Automotive Research  
 Ohio State Center for Aviation Studies  
 The Metro School  
 BUGMAN Education  
STEM Expo Planning Committee  
 Michael Romanello (Chair)  
 Matt Baxendell  
 Matt Marquis  
 Carlos Vazquez  
 Keith Knuppel  
 Jennifer Rivera  
 Zach Stolarsky  
 Eric Biehl  
 Jason Ross  
 Dave Pritchard  
 Carolyn Merry  
 Bob Redfield

## FREE WEBINAR - ROAD DIETS

What: Free Webinar - 1.0 PDH

When: Friday, March 28, 2014

12:00 PM - 1:00 PM

Bring your own lunch

Where: Korda/Nemeth Engineering, Inc.

1650 Watermark Drive, Ste 200

Columbus, OH 43215

Topic: A Closer Look at Road Diets

RSVP: To [newsletter@centralohioasce.org](mailto:newsletter@centralohioasce.org) by Wed., March 26, 2014.



### Learning Outcomes

- Know road diets and the operational impacts to a roadway
- Understand the criteria that must be met for implementation
- Recognize the safety and community benefits of a road diet
- Understand the need for public outreach and the planning process
- Understand post-installation oversight and maintenance

### Webinar Benefits

- Develop a thorough understanding of road diets
- Know when and why to consider a road diet
- Identify the keys to a successful project
- Explain the benefits of a road diet and the elements of a complete streets design

### Intended Audience

- Transportation professionals for consultants, cities, counties, and state agencies
- Individuals with some background or training in traffic operations and transportation planning

### Webinar Outline

- Introduction
- Defining a Road Diet
- Choosing the proper facility for implementation
- Public outreach process
- Post-installation considerations
- Conclusion/webinar takeaways

\*Open only to Central Ohio ASCE Section Members.

\*Seating is limited to the first 25 people.

### Purpose and Background

A road diet generally represents the rechannelization of a roadway from four lanes, consisting of two travel lanes in each direction, to three lanes, consisting of one travel lane in each direction separated by a two-way left-turn lane. The additional roadway width that results from this reconfiguration is then used to establish bicycle lanes, accommodate on-street parking, or create additional separation between the motoring public and pedestrians and bicyclists.

### Primary Discussion Topics

- Defining a Road Diet
- Choosing the proper facility for implementation
- Public outreach process

## COMMUNITY ENGINEERING CORPS

ASCE is pleased to announce the launch of the Community Engineering Corps (CEC), an alliance with the Ameri-



can Water Works Association (AWWA) and lead partner Engineers Without Borders-USA (EWB). Through this program, EWB is expanding its reach of development projects to *within* our borders. The CEC harnesses the expertise of thousands of volunteers by providing pro bono engineering services that address the infrastructure needs of underserved communities in the USA. It works collaboratively with communities to design solutions to problems that the community has identified and only partners with communities that do not have the financial resources to access engineering resources in a traditional manner.

**Mission:** Community Engineering Corps will bring underserved communities and volunteer engineering leaders together to advance local infrastructure solutions.

**Vision:** The alliance's vision is a country where all communities have access to the technical expertise required to ensure the infrastructure capacity to meet their needs.

There are opportunities for members of chapters of ASCE, EWB-USA or AWWA sections to volunteer their time and expertise to help communities that have requested the assistance of the CEC. Opportunities for individuals include being a Student Chapter Mentor, or serving on the Domestic Application Review Committee (DARC), the Technical Review Committee (TRC), or the Legal Committee.

For more information on this exciting outreach opportunity, click [HERE](#).



## 2013-2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday March 20, 2014 Lunch	Ohio Utilities Protection Service	ASCE	City of Columbus Training Facility	Mark Seidelmann
March 2014 Lunch	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)

## 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](mailto:Matt.Baxendell@woolpert.com)) if you're interested in taking part.

## 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.



## 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

March 27, 2014

Location: Prime AE

3000 Corporate Exchange Dr.

Columbus OH 43231

## SHALE ENERGY ENGINEERING CONFERENCE



### 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.

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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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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  
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Various Speakers from ODNR, OOGA,  
MWCD, EID-OH, Operators, Consultants

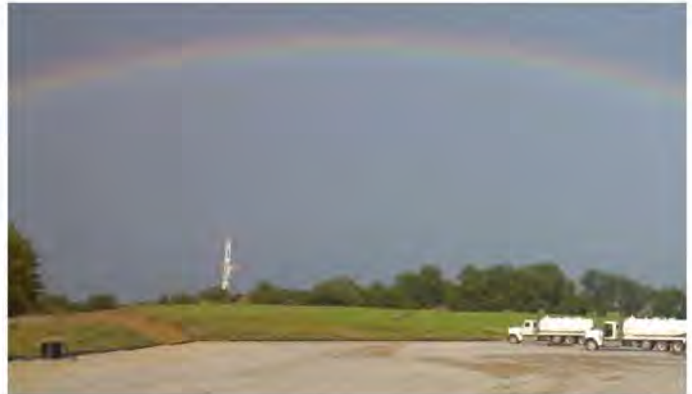
At the end of 2013, Ohio had exceeded 1,000 permits for horizontal wells in the Utica shale formation. That number may triple in the next couple years. As demand for water to support operations increases, methods and decision-making processes of finding, storing and conveying fresh water are being developed. 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 / reuse.**

**Speakers**

**Various Speakers from:**

- ODNR
- Ohio Oil & Gas Association (OOGA)
- Energy In Depth-Ohio
- Muskingum Watershed Conservancy District
- Oil & Gas Operator
- Hull & Associates, Inc.
- Academia



Seminar Includes: Course Reference Materials, Certificate for 7 Professional Development Hours, Breakfast, Lunch and Two Breaks.

Format: One Day Seminar, Business Casual Attire





## 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/](http://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](mailto:ajsmith@hullinc.com)

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e-mail \_\_\_\_\_

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

\_\_\_\_\_

## Tentative Schedule

8:00 - 8:30	Registration / Breakfast	12:00 - 1:00	Lunch Break
8:30 - 8:40	Welcome / Introduction <i>AJ Smith, ASCE</i>	1:00 - 1:30	Pre-Planning Water Needs and Supply <i>Jeremy Manno, Carrizo Oil &amp; Gas</i>
8:40 - 9:15	Overview of Shale Oil & Gas in Ohio <i>Shawn Bennett, Energy In Depth -Ohio</i>	1:30 - 2:15	Muskingum Watershed Lakes <i>Ted Lozier, MWCD</i>
9:15 - 10:00	Activities of OOGA Water Resources Work Group <i>Brent Winslow, OOGA</i>	2:15 - 2:45	Water Sourcing Collaboration <i>Matt Hammer, Hull</i>
10:00 - 10:15	Break	2:45 - 3:00	Break
10:15 - 10:45	Update on ODNR Water Sourcing Study <i>Cheryl Green, Hull</i>	3:00 - 4:00	Hydraulic Fracturing/ Water Recycling & Reuse <i>TBA</i>
10:45 - 11:15	ODNR Draft Rules <i>Blake Arthur, ODNR Div. of Oil &amp; Gas</i>	4:00 - 4:45	Water Disposal / Injection Wells <i>TBA</i>
11:30 - 12:00	Water Impoundment Regulations <i>Doug Evans, ODNR Dam Safety Group</i>	4:45 - 5:00	Closing Remarks / Q&A

rev. 2/26/14

## 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.

