



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 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 Operators
- Hull & Associates, Inc.
- Battelle
- The Ohio State University (OSU)



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 preferred method of payment is online at www.centralohioasce.com/seminar 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.

Tentative Schedule

8:00 - 8:30	Registration / Breakfast	12:00 - 1:00	Lunch Break (food provided)
8:30 - 8:40	Welcome / Introduction <i>AJ Smith, ASCE</i>	1:00 - 1:40	Pre-Planning Water Needs and Supply <i>Jeremy Manno, Carrizo Oil & Gas</i>
8:40 - 9:15	Overview of Shale Oil & Gas in Ohio <i>Shawn Bennett, Energy In Depth -Ohio</i>	1:40 - 2:15	Muskingum Watershed Lakes <i>Ted Lozier, MWCD</i>
9:15 - 10:00	Water Sources for Hydraulic Fracturing <i>Brent Winslow, CONSOL Energy</i> <i>(OOGA Water Resources workgroup chair)</i>	2:15 - 2:45	Water Sourcing Collaboration - Panel <i>Matt Hammer, Hull (moderator)</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 - 3:30	Hydraulic Fracturing <i>Thomas Darrah, PhD, OSU</i>
10:45 - 11:15	ODNR Draft Rules <i>Blake Arthur, ODNR Div. of Oil & Gas</i>	3:30 - 4:00	Subsurface Brine Disposal Research <i>Joel Sminchak, Battelle</i>
11:15 - 11:45	Water Impoundment Regulations <i>Doug Evans, ODNR Dam Safety Group</i>	4:00 - 4:45	Wastewater Control / Disposal <i>TBA</i>
11:45 - 12:00	Morning Wrap-up and Q&A	4:45 - 5:00	Closing Remarks / Q&A

rev. 3/20/14

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.

