

ASCE Newsletter

Central Ohio Section

March, 2016
Volume 20, Issue 7

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MARCH LUNCHEON

DATE: Thurs. March 17, 2016,
11:30 A.M. Registration, 12:00 P.M. Lunch

LOCATION: Crowne Plaza Columbus North-Worthington,
6500 Doubletree Ave, Columbus OH

TOPIC: insight2050



insight2050 is a community-wide effort to provide important data and analysis to help Central Ohio communities proactively plan for our Region's growth and development over the next 30+ years. In many ways, this growth is expected to be dramatically different from the past, with an unprecedented 81 percent of our region's future household growth being households without children. The rapid acceleration in both the aging and diversity of our population, along with changing preferences among key segments of our community, will also have profound impacts on the nature and location of our region's growth.

As insight2050 clearly demonstrates, the manner in which our region grows over the coming decades clearly matters. The region's predominant growth patterns and types of development will have significant impacts on our future plans for, and investments in, public infrastructure. It will impact the quality of the air we breathe and therefore the health of our residents. It will most certainly affect the amount of land we continue to consume to accommodate this growth, and perhaps most importantly it will likely have substantial impacts upon the long-term economic competitiveness of our region.

SPEAKER: Terry Foegler, Chair of the Central Ohio District Council of the Urban Land Institute, and coordinator of Dublin Ohio's *Bridge Street District* initiative.

Terry also serves on the Executive Committee of insight2050. Terry Foegler has nearly 40 years of experience leading a broad range of planning, development, and urban revitalization initiatives. Terry has worked for The Ohio State University leading its Campus Partners neighborhood revitalization initiative, and heading its planning and real estate operations. Most recently Terry has been working with the City of Dublin Ohio to help that community better understand some of the implications of the changing drivers of its future growth, develop a new vision for the Bridge Street District to help ensure the community's long term competitiveness, and help lead the implementation of that new vision toward a much denser, more mixed-use and walkable environment for Dublin's future.

MENU: Chicken Roulade, potato, vegetable, salad, rolls, apple pie, coffee, tea.

CPD Hours: A certificate for one (1) Continuing Professional Development (CPD) hour will be issued at the conclusion of the program.

COST: \$20 ASCE Members and Guests, \$15 ASCE Life Members, \$10 Students.

REGISTER: Registration is due by 5:00 PM on Monday, March 14, 2016. Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. Contact A.J. Smith at 614-793-8777, or register@centralohioasce.com to register.

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 Members:

All of our Engineer's Week activities, including our STEM Expo, were well attended this year. Thanks for the many volunteers that made it happen. Your sponsorship and time in these events help engage students and bring awareness to engineering careers.

For the last few months I have shared a few outreach volunteering opportunities, and how ASCE provides many opportunities, resources, and guidance to reach different groups. In addition to outreach, ASCE's volunteer webpage (<http://www.asce.org/volunteer-opportunities/>) has an extensive list of many other opportunities to help advance your career and the Civil Engineering profession.

If your areas of interest are more on the technical side, consider joining an ASCE committee. This provides you with an opportunity to increase your technical knowledge and enhance Civil Engineering. As the ASCE's webpage (http://www.asce.org/asce_committees/) states "Each year, thousands of civil engineering professionals participate in ASCE's activities by volunteering their technical and

professional expertise in support of the Society's vision and mission to advance the practice of civil engineering."

I would like to take this opportunity to thank those Central Ohio Section Members that are active in ASCE technical and professional committees. Thank you for your time and for representing the Central Ohio Section.

Lastly, ASCE's Legislative Fly-In is on March 15-17, 2016. This is one of ASCE's outreach events for members to educate our leaders on the state of our infrastructure and the need for appropriate and sustainable funding mechanisms legislation. Central Ohio Section will be well represented in this two-day event in Washington DC.

Looking forward to meet you at one of our events.

Sincerely,

Carlos Vazquez, PE, M. ASCE

President

ASCE Central Ohio Section

president@centralohioasce.com



BLUE JACKETS HOCKEY GAME

What: Blue Jackets vs. Carolina Hurricanes

When: Thursday, March 24, 2016

Where: Nationwide Arena

Cost: \$10 members, \$15 guests

Based on the popularity of our last Blue Jackets outing, we are planning a group outing to the Blue Jackets-Flames game. Tickets are \$10 per member and \$15 for non-ASCE 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 mbaxendell@primeeng.com. Contact Matt for



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. 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.

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.



NATIONAL ASCE COMMITTEE MEMBERS

2016 ASCE committee members from the Central Ohio Section – Thank for your service!

Andrew	Martin	P.E., M.ASCE	ASCE 7-16 Subcommittee On Wind Loads
David	Hawkins	P.E., M.ASCE	Athletic Field Lighting Standards Committee
Sang-Soo	Kim	A.M.ASCE	Bituminous Materials
Mark	Bernhardt	P.E., M.ASCE	Bridge Management, Inspection and Rehabilitation
Mark	Ogden	P.E., M.ASCE	Committee For America's Infrastructure
Coimbatore	Satyapriya	P.E., D.GE, F.ASCE	Continuing Education Committee
Christopher	Merklin	C.Eng, M.ASCE	DIGGS Project Team
Stephen	Taliaferro	P.E., M.ASCE	DIGGS Project Team
Peter	Narsavage	P.E., M.ASCE	DIGGS Standard DIGGS Project Team
John	Messineo	P.E., M.ASCE	Forensic Practices
Dorota	Grejner-Brzezinska	M.ASCE	Ohio State University: Student Chapter
Benjamin	Sperry	EI, A.M.ASCE	Ohio University: Student Chapter
Robert	Heady	P.E., M.ASCE	Ohio University: Student Chapter
Michael	McAvoy	P.E., M.ASCE	Ohio University: Student Chapter
Shane	Vilasineekul	P.E., M.ASCE	Performance of Wood Structures
John	Bossler	Ph.D., P.E., F.ASCE	Publications
Tien	Wu	Ph.D., P.E., Hon.M.ASCE	Risk Assessment and Management
Jieun	Hur	Ph.D., P.E., EIT, M.ASCE	Shake Table Testing Standard
Shad	Sargand	M.ASCE	Shallow Foundations
Thomas	Less	P.E., M.ASCE	Steel Bridges
David	Pritchard	P.E., M.ASCE	Strategic Communications Committee
Ahmad	Al-Akhras	Ph.D., P.E., F.ASCE	Street and Highway Operations Committee
Terence	Parrish	P.E., M.ASCE	Task Committee On Electrical Transmission Line Structural Loads
Michael	Hagenberger	P.E., M.ASCE	Committee On Accreditation & Accreditation Operations
Derek	Wride	P.E., M.ASCE	Sustainability Committee, Visiting International Fellowship Committee
Norman	Kampbell	P.E., M.ASCE	TC On Cured In Place Pipe Design Manual of Practice
Thomas	Christy	P.E., M.ASCE	TC On Wood Pole Structures For Electrical Transmission Lines
Jay	Herskowitz	P.E., M.ASCE	Urban Drainage Standards Committee
Hojjat	Adeli	Ph.D., Dist.M.ASCE	Advanced Materials And Structures, Editorial Board
Harry	Thomas	P.E., F.SEI, M.ASCE	ASCE 7-16 Minimum Design Loads For Bldgs And Other Structures
			ASCE 7-16 Subcommittee On Dead And Live Loads
Robert	Hanson	Ph.D., P.E., F.ASCE	ASCE 41 Analysis Subcommittee
			ASCE 41 General Subcommittee
			ASCE 7-16 Minimum Design Loads For Bldgs And Other Structures
			ASCE 7-16 Subcommittee On Seismic Loads
			Seismic Retrofit Of Existing Buildings Standards
			Tc 12: Seismic Isolation Of ASCE 7-16 Seismic SC
Srinivasarao	Chitikela	M.ASCE	Environmental Council
			Environmental Permitting Committee
			International Council
			International Participation Committee
			Municipal Water Infrastructure Council
			MWIC Residuals Management Technical Committee
			Residuals Management Technical Committee
			Sustainability Committee
			Water, Wastewater & Stormwater Council
			World Water Council Activities Committee
Halil	Sezen	Ph.D., P.E., M.ASCE	Reinforced Concrete Columns (w/ ACI 441)
			Seismic Retrofit Of Existing Buildings Standards
			Shear and Torsion (w/ ACI 445)
Deborah	McAvoy	P.E., PTOE, M.ASCE	Department Heads Coordinating Council
			Committee On Education
			Ohio University: Student Chapter
Jason	Ross	P.E., M.ASCE	Embankments, Dams, and Slopes
			Ohio State University: Student Chapter
Meihuan	Fulk	P.E., D.Eng., M.ASCE	Task Committee On Electrical Transmission Line Structural Loads
			TC On Aesthetic Design Of Transmission Line Structures
Abdollah	Shafieezadeh	A.M.ASCE	IRD Risk And Resilience Measurements Committee
			Task Group 3 Risk Assessment of Structural Infrastructure Facilities

2016 STEM EXPO A SUCCESS

The 3rd Annual Central Ohio STEM Expo was held on March 5, 2016 at Thomas Worthington High School. Organized by the ASCE Central Ohio Section Younger Member Group, the event welcomed 470 students in grades kindergarten through 8th grade. The students engaged in hands-on activities demonstrating Science, Technology, Engineering and Math concepts. Over 40 activities featuring themes such as bugs, bridge building, robots, towers, programming, virtual reality and drone imaging. The diverse range of activities were provided on a volunteer basis from organizations in the local STEM community comprising of engineering firms, professional societies, corporations, and independent educational programs. This year's event also included a feature presentation by ABC 6 / FOX 28 Meteorologist Phil Kelly. A complete list of the event sponsors and participating organizations, and their activities, is provided on the following page.

A big thank you goes out to the STEM Expo Planning Committee for their hard work in again making this a very successful event:
Michael Romanello (Chair)

Keith Knuppel
Zach Stolarsky
Patrick Karnes
Jennifer Rivera
Phillip Hinson
Brian Ditzler



2016 STEM EXPO A SUCCESS

A big thank you to our activity sponsors and corporate sponsors!

ACTIVITIES & EXHIBITS

Program a Friend.....	Girl Scouts of Ohio's Heartland
Hands-On STEM Activities.....	STEM Is Elementary
Water Strider Challenge.....	Shocking Discoveries
Gumdrop-Toothpick Bridge.....	WSP Parsons Brinkerhoff
Balloon Rocket Car & Lightsabers: Battery Power.....	ms consultants, inc.
The Science of Spinning.....	S&ME, Inc.
Turtle Research Station.....	Columbus Zoo & Aquarium
BUGS Observation Tables.....	BUGMAN Education
Penny Boat Challenge.....	E.L. Robinson Engineering
Block Kids.....	National Association for Women in Construction (NAWIC)
K'Nex Bridge.....	Association for Bridge Construction and Design (ABCD)
Shapes with Straws.....	HR Gray
Edible Car Races.....	Honda
Challenge Island Experience.....	Challenge Island
Marshmallow Cell Towers.....	Verizon
Energy is Everywhere.....	BRICKS 4 KIDZ Dublin-Upper Arlington
Stormwater: Reducing Runoff.....	Franklin Soil and Water Conservation District
Building with Linker Logs, PVC Pipes & KEVA Planks.....	Ohio Technology & Engineering Educators Assoc.
Lakewood MS Future City Team.....	National Engineers Week Future City Competition
Penny Bridge.....	Carpenter Marty Transportation
Goldie Blox & Lego Construction.....	ASCE Younger Member Group
MOOV Kit Construction.....	Oh Know! The Knowing Place
Science Friction.....	DLZ
Lego Robot Battles.....	Robot Academy
Heart Beat Simulator.....	Chalmers P. Wylie VA Ambulatory Care Center (Columbus VA)
Power Tower.....	Paul J. Ford and Company
Virtual Reality & Drone Imaging.....	Infinite Impact
Math Explorations.....	Math Academy Plus
Paper Bridge.....	Women's Transportation Seminar (WTS)
Exploring Magnetism.....	Ohio State ASCE Student Chapter
Lego and Jenga Challenge.....	Elford
Structures Rocks!.....	Schaefer / Structural Engineers Assoc. of Ohio (SEAOO)
Bridge Building / Super Structures.....	Sylvan Learning of Columbus
Water Filtration.....	IBI Group
Additional Activities By:.....	Society of Women Engineers (SWE) • Career Eagles Aviation Initiative American Society of Heating, Refrigeration, Air-Conditioning Engineers

Platinum Sponsor



STEM Grant Provided By:



Gold Sponsors



Silver Sponsors



FREE WEBINAR - GEOTECHNICAL STUDIES IN KARST

What: Free Webinar - 1.5 PDH

When: Fri., March 11, 2016

11:30 AM - 1:00 PM

Where: S&ME

6190 Enterprise Ct.

Dublin OH 43016

Topic: Geotechnical Investigations in Karst

RSVP: To Chris Nye at CNye@smeinc.com by Mon. March 7, 2015.

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.

*Bring your own lunch.



Purpose and Background

Carbonate and evaporite geologic formations underlie a large portion of the world. These formations contain soluble compounds that result in portions of the formations dissolving over time to produce cavities, conduits, enlarged joints, caves, etc. The landforms resulting from these features are referred to as karst. Karst poses many geotechnical concerns such as subsidence, sinkholes, uneven structural support, high groundwater production, and groundwater sensitivity to contamination.

Locating and characterizing karst features at depth is a challenging task. Even large features can easily be missed by conventional borings and may not be detectable by some geophysical methods. This makes it necessary to employ a specially focused investigation that incorporates geological, geotechnical, statistical, and geophysical approaches to evaluate risks and determine the appropriate level of investigation.

This presentation includes a brief introduction to karst and the associated geotechnical issues. The instructor discusses and provides examples of methods and strategies for investigating and characterizing various aspects of karst.

Primary Discussion Topics

- Geotechnical issues in karst
- Geologic associations of karst features

- Applications and limitations of various methods for investigating in karst
- Integrated approach to investigation

Learning Outcomes

- Develop an understanding of the interaction of natural distribution of karst features
- Learn the key factors and limitations of borings and geophysics in karst
- Develop an understanding of the mechanics of how to integrate results of different investigation techniques

Webinar Benefits

- Learn a comprehensive approach for effective investigation of karst
- Learn to find the limitations of investigation methods for more effective use
- Avoid costly errors from misinterpretation and use of inappropriate investigation methods
- Find out how to implement the latest approaches to investigating karst
- Learn the latest technology to effectively investigate karst

Webinar Outline

- Introduction to karst
- Geotechnical issues in karst
- Geology and the structure of karst
- Borings
- Geophysics
- Integration of methods
- Example cases

The Central Ohio Section sponsors free continuing education webinars as a service to our members. These webinars are produced by ASCE and normally cost \$250 or \$300 for ASCE members. However, the Section is paying the registration fee and inviting any interested section members to attend for free. You can see [the complete list of webinars available from ASCE National on their website](#). If you see one you like, let us know. If you and your company would like to host one, let us know that too. If you open it up to any interested Central Ohio ASCE section members to come, we will pay the registration fee.

2016 OHIO CONSTRUCTION CONFERENCE

What: Ohio Construction Conference

When: Wed., March 16, 2016

Where: The Ohio Union - 1739 North High St.



Save the date for the 2016 Ohio Construction Conference, presented by McGraw Hill Construction and The Builders Exchange of Central Ohio. The conference will bring together a unique 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.

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

2015-2016 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday March 17, 2016 Lunch	Insight 2050 (MORPC)	ASCE	Crowne Plaza North	Carlos Vazquez
Thursday April 14 or 21, 2016 Dinner	OU/OSU Student Chapter Presentations	ASCE	Athens, OH	OSU/OU Student Chapters
Wednesday April 20, 2016 All Day	ASCE Spring Seminar - Water Quality	ASCE	OSU Fawcett Center	Firat Sever
Thursday May 19, 2016 Lunch	Awards President-Elect Mattei "Initiatives & Raise the Bar"	ASCE	T.B.D.	Carlos Vazquez/ AJ Smith
June, 2016 Dinner	2016-2017 Planning Meeting	All	Tommy's Pizza - Dublin, OH	Chris Nye
Friday June 17, 2016 Lunch & Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk

CADD CLASS VOLUNTEERS



Starting again in 2016 the ASCE Younger Member Group (YMG) will be presenting instructional Autodesk Civil3D Computer Aided Design (CAD) seminars on the campus of the Ohio State University.

The seminars will introduce the 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 YMG is seeking volunteers from the Central Ohio Section to supplement our teaching group. This is also a great way to see prospective interns in action learning valuable job skills. Please contact Tom Less (Tom.Less@woolpert.com) if you're interested in taking part.

The classes will occur once a week for a few hours on a day to be determined, running likely from the 2nd week in

CIVIL ENGINEERING REFERENCE BOOKS

The Central Ohio Section bought a number of civil engineering reference books and donated them to the Columbus Main Library for public use. The titles are as follows:

- Minimum Design Loads (7-10)
- Design of Marine Facilities for Berthing, Mooring
- FRP Composite Connections
- Foundation Engineering Handbook
- Trenchless Technology Piping
- Civil Engineer's Handbook of Professional Practice

- Building Code Requirements and Specification for Masonry Structures (5-11 & 6-11)
- Urban Stormwater Controls
- Municipal Wastewater Plants
- Structural Steel Designer's Handbook



The books are for reference and can't be checked out. They are located on the 3rd floor in a special collection area of the main library (north side of building in the half-height stacks).

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 A.M.
March 31, 2016
At W.D. Partners

DREAM BIG! IMAX MOVIE



All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative and amazing ways. Dream Big will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds and a tunnel deep below the earth. Along the way the audience will witness how today's engineers are shaping the world of tomorrow.

Dream Big recently moved into full production thanks to the Bechtel Corporation, which has signed on as the film's presenting sponsor. The film will take advantage of the awe-inspiring scope of giant-screen theaters including IMAX to show how engineers have made civilization possible, and to encourage youth to make it a career. ASCE is working with award-winning documentary filmmakers MacGillivray Freeman on the production and associated educational materials. Dream Big will have its world premiere during Engineers Week in February 2017. Click [HERE](#) for a preview.

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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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Spring Seminar - Water Quality

Water Quality SEMINAR

Various Speakers from:

City of Columbus, OEPA, City of Delaware,
Consultants

Water Quality remains to be a hot topic in Ohio with algal blooms in surface waters as well as issues with drinking water quality. What can we do to improve our waters? Learn from knowledgeable speakers about HABs, water/wastewater treatment, resource recovery, groundwater, stormwater BMPs, drinking water quality and more!

Who should attend? Engineers, designers, managers, operators, regulatory professionals, construction managers, and others interested in learning more about current practices regarding water quality.

Speakers

Speakers include representatives from:

- Ohio Environmental Protection Agency (OEPA)
- City of Columbus, Division of Sewerage and Drainage (DOSD)
- Ohio State University (OSU)
- City of Columbus, Division of Water (DOW)
- City of Delaware
- American Structurepoint
- MWH
- Stantec



Seminar Includes:

- Course Reference Materials
- Certificate for Professional Development Hours
- Breakfast, Lunch, and Two Refreshment Breaks

Format: One Day Seminar, Business Casual Attire



Registration

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

ASCE Members: \$ 115.00
 Non-Members: \$ 165.00
 Students: \$ 30.00
 Registration after April 1, 2016: \$ 200.00

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

The preferred method of payment is online at www.centralohioasce.com/seminar by April 14, 2016. Any Checks should be made payable to *Central Ohio ASCE*.

Please register and pay [online](#) with a credit card. **Registration at the regular fee is due by 4 PM on Friday, April 1, 2016.** Registration fees will still be required for no-shows and registrants canceling after April 15, 2016.

Make checks payable to: *Central Ohio ASCE*

Firat Sever, American Structurepoint.
 2550 Corporate Exchange Drive, Columbus, OH 43231
 Telephone: (614) 901-2235
fsever@structurepoint.com

Name _____

Company _____

Address _____

City _____

State _____ Zip _____

Phone _____

e-mail _____

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



Seminar Program

(subject to change)

7:30 - 8:00	Registration / Breakfast	12:00 - 1:00	Lunch
8:00 - 8:15	Welcome / Introduction <i>Firat Sever, ASCE / Central Ohio</i>	1:00 - 1:40	Use of Ultrasound for Environmental Applications <i>Linda Weavers, OSU</i>
8:15 - 9:00	Upgrades Regarding Ohio EPA's Plan for Nutrient Pollution Control <i>Dan Dudley, OEPA</i>	1:40 - 2:40	Lake Erie Isn't the Only One Facing Water Quality Challenges <i>Matt Steele and Rod Dunn, City of Columbus, DOW</i>
9:00 - 9:30	Introduction to Nutrient Removal at Ohio's Municipal Improvements Project <i>Dale Kocarek, Stantec</i>	2:40 - 2:55	Break
9:30 - 9:45	Break	2:55 - 3:25	City of Delaware Water Treatment Plant Expansion and Improvements Project <i>Brad Stanton, City of Delaware</i>
9:45 - 10:15	Green Technology to Recover Phosphorous at WWTPs <i>Viraj deSilva, American Structurepoint</i>	3:25 - 3:55	Today's Water Treatments Challenges <i>Tim Wolfe, MWH</i>
10:15 - 11:00	Columbus Has Gone Green! <i>Tim Fallara, City of Columbus, DOSD</i> <i>Eric Onderak, AECOM</i> <i>Steven Thompson, AECOM</i> <i>Jacob Slechter, City of Columbus, Div. of Cons. Ins.</i> <i>Scott Compston, City of Columbus, Div. of Cons. Ins.</i>	3:55 - 4:15	Drinking Water Harmful Algal Blooms in Ohio <i>TBD, OEPA</i>
11:00 - 11:30	Construction Stormwater Permitting in Ohio <i>Mike Joseph, OEPA</i>	4:15 - 4:35	Ambient Groundwater Quality in Ohio <i>Chris Kenah, OEPA</i>
11:30 - 12:00	Columbus Southerly WWTP - Planning for the Future <i>Rick Kent, City of Columbus, DPU</i>	4:35 - 4:45	Closing Remarks <i>Firat Sever, ASCE / Central Ohio</i>

Directions and Map

DIRECTIONS TO THE EVENT:

The Fawcett Center

2400 Olentangy River Road

Columbus, OH 43210

Phone: (614) 292-1342

From the West:

Take I-70 East to State Route 315 North. Follow to the Lane Avenue Exit. Turn right on Lane Avenue and turn left on Olentangy River Road. The Fawcett Center is the first driveway on the right.

From the East:

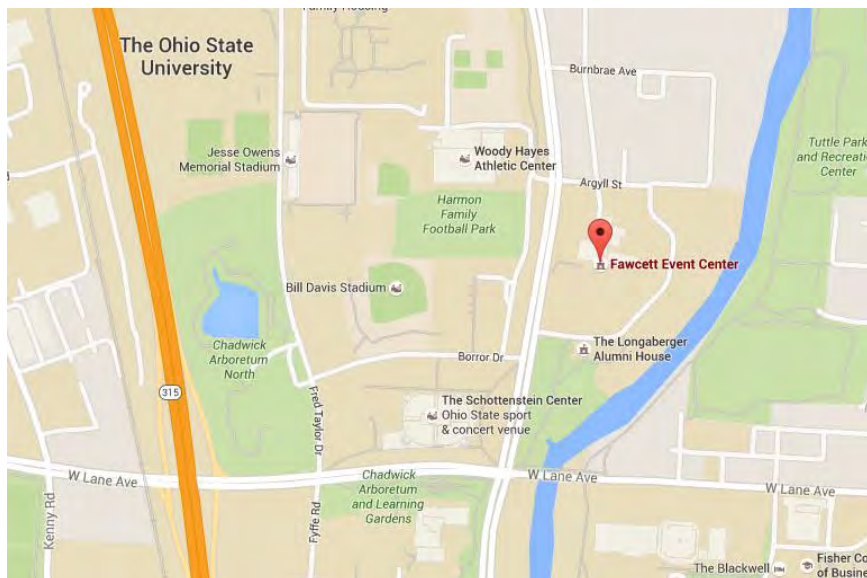
Take 670 West to State Route 315 North. Follow to the Lane Avenue Exit. Turn right on Lane Avenue and turn left on Olentangy River Road. The Fawcett Center is the first driveway on the right.

From the North:

Take either I-71 or State Route 23 South to I-270 West. Take I-270 West to State Route 315 North. Follow to the Lane Avenue Exit. Turn right on Lane Avenue and turn left on Olentangy River Road. The Fawcett Center is the first driveway on the right.

From the South:

Take either I-71 North to State Route 315 North, OR State Route 23 North to I-270 West to State Route 315 North. Follow to the Lane Avenue Exit. Turn right on Lane Avenue and turn left on Olentangy River Road. The Fawcett Center is the first driveway on the right.



**A PARKING PERMIT WILL BE PROVIDED
UPON REGISTRATION**