

ASCE Newsletter

Central Ohio Section

September, 2015
Volume 20, Issue 1

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SEPTEMBER LUNCHEON

DATE: Thurs. Sept. 17, 2015
11:30 A.M. Registration
12:00 P.M. Lunch Presentation

LOCATION: Spaghetti Warehouse
397 West Broad St
Columbus OH 43215

TOPIC: Blueprint Columbus

The Department of Public Utilities is in the process of implementing Blueprint Columbus in targeted neighborhoods to address overflows that occur from the City's sanitary sewer system during periods of wet weather.

Blueprint Columbus focuses on eliminating the source of the problem, which is rain water entering the sanitary sewer. There are four components that make up Blueprint Columbus: lining resident's sewer lateral, a voluntary sump pump program and redirecting roof water runoff away from the home's foundation drain. Green infrastructure will be installed on right-of-way property to treat rain water that's been redirected before it enters the storm sewer system.

SPEAKER: Mr. Dax Blake, PE; Administrator, Division of Sewerage and Drainage, City of Columbus

Mr. Blake became the City of Columbus, Ohio Division of Sewerage and Drainage (DOSD) Administrator in early 2007. As the leader for the division, he is responsible for overseeing two large wastewater treatment plants with a combined capacity of 480 million gallons per day, a biosolids composting facility, and over 7000 miles of combined, sanitary, and storm sewer infrastructure. The division has over 500 employees serving a population of roughly 1.2 million people. The annual operating budget is approximately \$250 million.

MENU: Buffet style: Spaghetti meatballs, Lasagna, Fettuccini Alfredo, Manicotti, Grilled Chicken Caesar, Chicken Parmesan, Salad, Bread, Coffee, Tea.

CPD: A certificate for one 1 CPD hour will be issued.

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

REGISTER: Registration is due by 5:00 PM on Friday, Sept. 11, 2015. 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 614-793-9070, 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:

AJ Smith, our 1st Vice President, directed our June planning meeting. During the well-attended meeting we put together a great line-up of activities for this year: technical lunches and dinner meetings, more webinars, among other events. OSU and OU student chapters and our Young Members' leadership are helping us plan several social activities, project tours, and outreach events as well. All these activities represent the wide variety of disciplines and awesome people that Civil Engineering encompasses. The coming year promises to be really busy! I hope to see all of you at these events! Remember that we are always looking for volunteers to help.

At the National level, ASCE is leading the efforts to properly educate our congressional leaders and the public in general on the importance (and urgency) of developing comprehensive and sustainable planning, including long-term funding mechanisms for our national and local infrastructure. Being able to plan and prepare for long term needs is key to our economic growth and competitiveness in the global economy.

A great example of the importance of educating our leaders and the public is the Highway Trust Fund (HTF). This Fund is in the brink of insolvency. For more information regarding

the HTF and how you can get involved, please visit www.fixthetrustfund.org/.

The Ohio Council of Sections is continuing their efforts to publish an updated Ohio Infrastructure report card. Contact Peter Narsavage if you would like to help with this effort. We will update you on the report card development process on a future newsletter.

I would like to thank last year's board members and active participants for a great year of events. Your dedication to the society and professional expertise is invaluable. In particular, my sincere thanks to our past ASCE President, Mark Seidelmann PE, GISP, M.ASCE for his outstanding leadership, and commitment to the Central Ohio Section over the past five years.

I am looking forward to serving as your president for the upcoming year.

Sincerely,

Carlos Vazquez, PE, M. ASCE

President

ASCE Central Ohio Section

president@centralohioasce.com



HIGHWAY TRUST FUND UPDATE

As you are probably aware, Congress has been facing the expiration of the third short-term financing extension to the Highway Trust Fund in a year. As the Highway Trust Fund's deadline was nearing and the Senate was near agreement on a long-term plan, ASCE leaders met with Senate leadership to discuss a solution. The Senate proposed the DRIVE [Developing Roadway Infrastructure for a Vibrant Economy] Act, a complex plan that secures funding for three years, with considerations for an additional 3 years, while keeping the gas tax untouched. This was passed by the full Senate, but not the House, requiring another short-term extension through October. There is hope that the House can agree on a version of the bill to reconcile

differences by the time this latest short-term extension expires.

On a local level, several Section members have been busy meeting with local members of Congress or their staff, including Senators Portman and Brown as well as Representatives Tiberi, Beatty, and Stivers.



NEW ASCE INSTITUTE

At the recent 2015 ASCE Pipelines Conference, ASCE launched the Utility Engineering and Surveying Institute (UESI), the ninth ASCE institute and the first introduced since 2008.



The new institute was approved by the Board of Direction earlier this year and will provide a home for surveyors, engineers, technicians, CADD,

and GIS professionals engaged in engineering surveying/geomatics.

The semi-autonomous institutes of ASCE provide comprehensive services in the Society's various technical areas. UESI will become the first national organization designed to embrace professionals engaged in utility and pipeline infrastructure engineering, planning, design, construction, mapping, coordination, operations, and asset management, for all utility pipelines regardless of the products they transport. It strives to become a leader in standards development, manuals of practice, and educational opportunities.

For more on UESI and to express an interest in becoming part of the inaugural class of members, write to uesi@asce.org.

FREE WEBINAR - ROADWAY DESIGN IMPROVEMENTS

What: Free Webinar - 1.5 PDH

When: Friday., Sept. 18, 2015
12:00 PM - 1:30 PM

Where: Burgess and Niple
5085 Reed Rd
Columbus, OH 43220

Topic: Roadway Geometric Design for Improved Safety and Operations

RSVP: To newsletter@centralohioasce.com by Tuesday, Sept. 15, 2015.

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.



Purpose and Background

This webinar explores the National Cooperative Highway Research Program (NCHRP) Synthesis 432: Recent Roadway Geometric Design Research for Improved Safety and Operations as well as other recent publications such as NCHRP Report 707 on Auxiliary Lanes, NCHRP Report 730 on Ramp Terminals and NCHRP Report 422 on Trade-Off Considerations in Highway Geometric Design. Given the abundance of literature on roadway geometric design issues, practitioners have faced challenges identifying the information that they need to do their job effectively.

The webinar provides options to practitioners on where to find these sources to help them make more informed decisions on geometric design issues that impact safety and operations. NCHRP Synthesis 432 is an update to NCHRP Synthesis 299 that was published in 2001. The report is structured to correspond to chapters in the AASHTO Green Book. Reports 707, 730 and 422 were published in 2011/2012 and provide additional guidance that practitioners find useful.

The webinar reviews NCHRP Synthesis 432 material in other related NCHRP reports on a topic by topic basis, highlighting key findings and important topics of geometric design research throughout the previous decade.

Learning Outcomes

- Recognize key geometric design research topics and findings from the last ten years

- Locate source documents that provide further details on those topics and findings
- Get familiar with key topics of NCHRP Synthesis 432
- Apply the most recent research in relation to key topics in the 2011 edition of the AASHTO Green Book

Webinar Benefits

- Improve your understanding of geometric design
- Familiarize with the signal timing information provided in the FHWA manual
- Gain a better understanding of how geometric design affects safety and operations
- Improved understanding of how highway geometry impacts all road users

Webinar Outline

- Introduction
- Design Controls and Criteria: Design Vehicles, Design Speed, Design Consistency
- Elements of Design: Sight Distance, Horizontal Alignment, Vertical Alignment
- Cross-Section Elements: Traveled Way Width, Lane Width, Shoulders, Medians
- Intersections: Alignment, Skew, Auxiliary Lanes, Sight Distance, Pedestrian and Bicycle Facilities
- Interchanges: Design of Ramps and Ramp Terminals, Alternative Interchange Designs, Pedestrian and Bicycle Facilities
- Summary of Findings, Barriers to Widespread Implementation, Work Zone Considerations

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.

ASCE CONVENTION

Civil engineers from across the country and around the world will converge on New York City in October for the first ASCE Convention. Explore the state of the industry and profession via a thought-provoking, multidisciplinary program that can earn you as many as 24 PDHs. You'll be inspired by opening keynote speaker Luke Williams, an authority on business innovation leadership. Registration is open; sign up now and save as much as \$200. Get details on the inaugural ASCE Convention [HERE](#).

Convention topics:

- State of the industry and profession
- Professional, leadership, and technical training
- Cross-discipline technical projects

- Causes, effects, and mitigation of natural and man-made catastrophes
- ASCE strategic issues and public policy
- Significant projects
- History & heritage

Important Dates:

- Sept. 8, 2015 - Hotel Reservation Deadline
- Sept. 16, 2015 - Advanced Registration Deadline
- Oct. 11, 2015 - Convention Starts



GOLF OUTING RECAP

While it was the first time in its history that rain played havoc with this event, 65 golfers still enjoyed the 19th annual Central Ohio Section Golf Outing. Over \$1800 was raised to support the Younger Member Group and the ASCE Central Ohio Section Civil Engineering Career Day. The outing was held again at Darby Creek Golf Course. Jay Muether and Ryan Mraz won a tiebreaker by posting the winning low score of two over par with Dave Becker and Matt Selhorst coming in second. Prize hole winners included:



Closest to the pin: Jeff Hackenbracht #11

Closest to the pin, 2nd shot: Joe Grani #8, Jim Reitz #10

Longest Drive: Steve Hart #12 and Darrell Miller #17

Longest Putt: Ron Mattox #9, Jeff Feltz #13, David Walter #14 and David Rourke #18

Many other prizes were given away for selected placings.

Once again the highlight is the lunch and dinner that is prepared by the Younger Member Group, who benefits from the outing proceeds. A big thanks to the following Younger Members who volunteered their time to cater the event:

Patrick Karnes, Strand

Keith Knipple, HR Gray

Matt Baxendell, Prime

Olivia Pina and Domenic Caporale, ASCE OSU Student Chapter

Lunch included hamburgers, hot dogs and snacks and dinner included steaks, chicken, sides and the always popular and required pie selection.

A HUGE thank you goes out to the 31 sponsors of this outing who make this outing special and allow net proceeds to benefit the Younger Member Group and the Civil Engineering Career Day. The outing has raised over \$35,000 in its history. We would like to thank the following sponsors in particular for extra support:

Ohio Wetlands Foundation:	Lunch Sponsor
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Transystems:	Dinner Sponsor
S&ME:	Dinner Sponsor
CM Transportation:	Beverage Cart Sponsor

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

FAITH MISSION STEEL TOE BOOT DRIVE



Faith Mission is currently having a steel toed boot drive for the people they serve in the greater Columbus area. Faith Mission is an organization

downtown Columbus that helps out people in need – primarily the homeless. They offer three meals a day and shelter as well. In addition, they work to help people find jobs. Many times these folks end up in the construction industry. That being the case, they have seen that there is a need for steel toed boots, which can get very expensive.

Faith Mission is requesting donations of new or gently used steel toed boots for the people they serve. Resource International will be collecting boots over the course of the next few weeks and delivering them to Faith Mission periodically.

This is a great service opportunity for the civil engineering community. You may drop them off at Resource International (6350 Presidential Gateway, Columbus, OH 43231. Contact Jon Sterenberg at 614-797-9371 or jonathans@resourceinternational.com) or drop them off directly at the Faith Mission office at 245 N Grant Avenue from 7 a.m. to 7 p.m. daily.

DREAM BIG! IMAX MOVIE



It's official! Brought to you by ASCE, production has begun on "Dream Big!," a celebration of engineering that will leave viewers breathless by taking them above, below, around, and through some of engineers' most impressive achievements, all in stunning lifelike clarity on eight-story-tall IMAX® and other giant screens.

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!" will have its world premiere in 2016. Although a lot of great plans are in the works, your ideas can help make the experience even more amazing. What should be featured in "Dream Big!"?

Share and submit your inspirations via the [THIS LINK](#), especially in these three areas:

- A civil engineering project that could be featured as a main storyline for the film. A project that is unique, revolutionary and filled with innovations and one that connects with other areas of engineering.
- A charismatic, pioneering engineer involved in a compelling project that could be featured as a main character in the film.
- A captivating, unforgettable engineering image or sequence that would be mind-blowing on an IMAX 3D screen.

Watch for more about production of "Dream Big!" in the coming months. See more [HERE](#).

FREE ON-DEMAND WEBINARS



As a benefit to members, in 2015 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.

CIVIL ENGINEERING REFERENCE BOOKS

Late last year, 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).

9TH ANNUAL OHIO UNIVERSITY ASCE GOLF OUTING

The Ohio University Chapter of the American Society of Civil Engineers invites you to partake in this year's Annual Alumni Golf Outing Fundraiser. Attached is all information regarding the event. This golf outing is the primary source of donation for the student school year. It produces funds for all guest speakers, educational activities and competitions. The golf outing will be held this coming September 26th, 2015 with a 9:00am shotgun start. There will be individual prizes and donated items for top teams. All spirits will be included for the day as well as breakfast. If you have any questions, please contact Andrew Leshner at (419) 606-5759 or al713906@ohio.edu. Thank you and we look forward to having you participate!

Saturday
September 26th
9:00 AM
Shotgun Start
OU Golf Course

9TH ANNUAL ASCE GOLF OUTING

Four-person golf scramble for students, faculty, and alumni. Contests include scramble, individual long drive, individual closest to the pin, and individual longest putt. Teams must consist of four people. Teams will be created on a fair handicap and will be given one scorecard. Fee includes cart for 18 holes, snacks, beverages, dinner, and social at Broney's Alumni Grill.

To register, fill out the sign-up form and return it with a check made out to "Ohio University ASCE"

Cost: \$50 for students, \$80 for non-students

Deadline: September 12th, 2015

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For more information contact,
Andrew Leshner, ASCE Program Director
(419) 606-5759
al713906@ohio.edu



2015-2016 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday Sept. 17, 2015 Lunch	Blueprint Columbus	ASCE/ ECC	Spaghetti Warehouse	Greg Barden
Thursday Oct. 15, 2015 Lunch	270/33 Interchange	ASCE/ ACI/ SEAO	T.B.D.	Jon Beier
Thursday Nov. 19, 2015 Lunch	City of Columbus Dams	ASCE	Confluence Park	Miriam Siegfried
Thursday Dec. 17, 2015 Lunch	OSU Center for Automotive Research	ASCE/ ASHE	Fawcett Center	David Pritchard
Thursday Jan. 21, 2016 Lunch	ODOT Planning and Projects	ASCE	T.B.D.	Mark Seidelmann
Thursday Feb. 25, 2016 Lunch	Engineers Week Topic	ALL	T.B.D.	E-week Committee
Thursday March 17, 2016 Lunch	Insight 2050 (MORPC)	ASCE	T.B.D.	Carlos Vazquez
Thursday April 21, 2016 Dinner	OU/OSU Student Chapter Presentations & President-Elect "Raise the Bar"	ASCE	Athens, OH	OSU/OU Student Chapters
April/May, 2016 All Day	ASCE Spring Seminar	ASCE	T.B.D.	Firat Sever
Thursday May 19, 2016 Lunch	OARS/Awards	ASCE	T.B.D.	Greg Barden
June, 2016 Dinner	2016-2017 Planning Meeting	All	Tommy's Pizza - Dublin, OH	Chris Nye
June, 2016 Lunch & Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk

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Web: www.centralohioasce.com

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BOARD MEETING

Our Next Board Meeting
Will Be 11:30 A.M.
Sept. 24, 2015
At W.D. Partners

NCEES & RAISE THE BAR

Delegates at the annual meeting of the National Council of Examiners for Engineering and Surveying (NCEES), the U.S. Engineering and surveying licensure boards that make up the organization recently voted to adopt a position statement that mirrors ASCE's "Raise the Bar" initiative, a position which ASCE has backed. That is, that increased educational requirements will be required for engineering licensure. ASCE has held such a position since 1998, and is intended to better prepare civil engineers of the 21st century for the current industry world, safeguarding the health, safety, and welfare of the public.

NCEES's rationale for this position statement is in "NCEES's responsibility to recommend changes to the licensure process that will ensure protection of the health, safety, and welfare of the public now and in the future as described in the NCEES strategic plan and in the mission and vision statements."

NCEES has committed to engaging outside technical engineering societies to identify additional education

pathways that may meet the requirements. Some identified pathways may include:

1. Earning an accredited bachelor's degree and then at least 30 semester hours of appropriate upper-level undergraduate or graduate-level coursework in engineering inside or outside the university environment.
2. Earning an accredited bachelor's degree in engineering followed by an engineering master's degree.

While NCEES member boards maintain the "Model Law" and "Model Rules" as manuals of best practice, each U.S. State and territory sets their own licensing laws and rules. Thus, each state must make its own decision on licensure requirements in the future. The NCEES vote removes an effective date for implementation of these requirements until implementation guidelines can be adequately addressed. The rules had previously been set to take effect in 2020.

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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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