

ASCE Newsletter

Central Ohio Section

October, 2015
Volume 20, Issue 2

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OCTOBER LUNCHEON

DATE: Thurs. Oct. 15, 2015
11:30 A.M. Registration
12:00 P.M. Lunch Presentation

LOCATION: Blazing Saddles Saloon
121 E Campus View Blvd
Columbus OH 43235

TOPIC: I-270/US-23 Interchange "Trench"

The "Trench" carries two northbound express lanes that bypass traffic lights at Campus View and Flint Road, spitting cars out near North Woods Boulevard. It is 25 feet deep, about 4,000 feet long

and 40 feet wide. Increased population and development in Delaware County have left the I-270/Rt. 23 interchange over capacity. About 150,000 vehicles travel through the interchange each day. ODOT had to either add lanes or give drivers an alternate route. The recently completed trench does both.

SPEAKERS: **Mr. Charles Kiner**, PE, Area Engineer, ODOT District 6. Mr. Kiner is an Area Engineer in the Construction Division of the Department of Transportation in District 6 with a staff of project engineers and transportation managers. His 25 years of construction administration experience includes the oversight of major Interstate projects: Tuttle Road, Polaris, Easton, and International Gateway interchanges, including his current assignments, the I-270, Route 23, and 315 improvements on the north side of Franklin County. He also managed the award winning Main Street and Rich Street Bridge projects in downtown Columbus and wrote a nationally published article about the Rich Street Bridge for Aspire Magazine. Mr. Kiner holds a Bachelor of Science degree in Civil Engineering from Ohio State University and is a Registered Professional Engineer.

Mr. Brian Davidson, PE, Project Manager, ODOT District 6. Brian Davidson started his ODOT District 6 project management career in 2013, and previously spent 8 years as the Deputy Engineer at Marion County Engineer's Office. Brian received his BSCE from Ohio Northern University. He is the project manager of the North Side Fix projects, as well as the Columbus Crossroads 70/71 Phase 5 project, the Design Build Gemini Place Extension and the District 6 Ohio Bridge Partnership Program Design Build projects. He is an avid bow hunter & duck hunter, husband and father of two boys.

MENU: BBQ Buffet: Fresh Garden Salad, Warm Corn Bread, Green Beans, Mac & Cheese, Cole Slaw, Pulled Pork, Rolls, Cookies, Brownies, Coffee, Tea, Soda.

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, Oct. 9, 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.



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LETTER FROM THE PRESIDENT

Central Ohio Section Members:

It was great to see many of you attend the September's joint lunch meeting with Engineer's Club of Columbus. Our thanks to Dax Blake, PE, from the City of Columbus, for his excellent presentation on Blueprint Columbus Wet Weather Management Plan.

Most of you are probably aware that within the boundaries of the Central Ohio Section we have two Universities with Civil Engineering programs: The Ohio State University and Ohio University. They both have very active ASCE student chapters. Besides their commonly known competition events for building and racing concrete canoe and designing and building a portable steel bridge (as part of the Ohio Valley Student Conference), both chapters have a wide range of activities including technical, social networking, fundraisers, public service, and K-12 outreach. These activities enhance their education and help develop teamwork, leadership, contacts, and social skills needed to be successful Civil Engineers.

Did your office worked on an interesting project you would like to share? Do you work on a construction site nearby any of our student chapters? Would you like an excuse to visit your alma mater? Both of our student chapters are always looking for sponsors to give them presentations and tours on what it all means. These presentations and live tours give meaning to those lectures of endless equations and computer simulations. These are useful in particular to freshmen and sophomore students so they can have a

better understanding of what Civil engineering is and all its disciplines.

For local companies and public entities, this is a great opportunity to have your junior engineers get out of the office and expand their "comfort zone" and practice public speaking skills. You will find a great audience and most likely some pizza as well! It's a great opportunity to meet students that in the near future may be your interns, your colleagues, your employees. An opportunity to ask them what is a "concrete bat".

I would like to end this month's letter by recognizing our student advisors for providing guidance to our future Civil Engineers within our section. Ohio State University Students rely on their Faculty Advisor Gaj Sivandran, PhD, and Practitioner Advisor Jason Ross, PE (S&ME). Ohio University students rely on Benjamin Sperry, PhD, and Robert Heady, PE, SI (Muskingum County Engineer's Office). Thank you for your time and passion!

I am looking forward to seeing you at future events.

Sincerely,

Carlos Vazquez, PE, M. ASCE
President
ASCE Central Ohio Section
president@centralohioasce.com



OHIO COUNCIL LEGISLATIVE SUPPORT

In the spring of this year the ASCE Ohio Council overwhelming voted to support recent legislation by Representative Jim Renacci (OH-16) for his sponsorship of HR 1846 "Bridge to Sustainable Infrastructure Act". Representative Renacci held an infrastructure workshop in Cleveland on March 30th with representatives of professional societies, industry groups, local mayors, planning commissions and others to discuss the critical need for finding a long term sustainable solution for the Highway Trust Fund. ASCE was asked to participate, and Central Ohio Section Member and ASCE Federal Advocacy Captain Jim Pajk represented the group at this meeting.

Click the [Bridge to Sustainable Infrastructure Act](#) to find out more about this legislation, the current bi-partisan co-sponsors and which groups support this legislation. It is important to note that there are five Ohio members of the House of Representatives that have co-sponsored this bill: Jim Renacci, Marcy Kaptur, Tim Ryan, Joyce Beatty and Bob Gibbs, that have co-sponsored this legislation.

Congressman Rencacci has thanked the Ohio Council for their support and continued efforts in meeting with legislators and other actions to push for a solution for the Highway Trust Fund.

The Ohio Council of local ASCE Sections was organized in 1969 to focus statewide attention on issues of interest and concern to civil engineers. It was established to coordinate and communicate activities of the six individual sections of ASCE in Ohio with a total of about 3500 members; Akron-Canton, Central Ohio, Cincinnati, Cleveland, Dayton, and Toledo, plus the Youngstown branch. It is composed of delegates from each section based on membership of the section.



OTEC CONFERENCE



Ohio Transportation Engineering Conference

Ohio's Future Rides on Transportation

What: Ohio Transportation Engineering Conference

When: Tuesday, Oct. 27, 2015

8:00 AM - 5:00 PM

Wednesday, Oct. 28, 2015

8:30 AM - 3:00 PM

Where: Greater Columbus Convention Center

400 N. High St.

Columbus, OH 43215

Join Transportation officials, government and members of the academic community at Ohio Transportation Engineering Conference -- one of the nation's largest transportation conferences. The conference features exciting speakers, technical sessions and an exhibition hall. Meet other professionals in your specialty area and share stories of innovation and transportation.

OTEC 2015 marks the 69th annual meeting of this statewide conference. The Ohio Transportation Engineering Conference is a two-day event attended by over 3,000 people nationally. OTEC is co-sponsored by the Ohio Department of Transportation and The Ohio State University, and the conference is organized to provide something for everyone

interested in Ohio's transportation industry. The program tries to address the latest policy and technical information, as well as covering new ideas in transportation policy, planning, environmental, design, construction, maintenance, operation, local government, and management of transportation resources.

2015 Theme: Ohio's Future Rides On Transportation:

Focused on a highly-integrated transportation network, Ohio is rapidly becoming a national business and logistics hub. At the heart of this progress is historical investments which enhance and improve safety, capacity and accessibility for all modes of transportation. Whether safely carrying people or freight on highways, rail, water, bicycle or transit, each mode will enhance Ohio's future economic growth and quality of life.

Students can attend OTEC sessions as well as visit the exhibit displays to gain a first-hand look at how the various aspects of the industry interact and support each other. The best part of all of this, conference registration is "free" to students with a valid student identification.

For additional information click [HERE](#).

OTEC JOINT ASSOCIATION HAPPY HOUR

What: OTEC Happy Hour

When: Tuesday, Oct. 27, 2015

6:00 PM - 8:00 PM

Where: Brothers Bar & Grill

477 Park Street

Columbus, OH 43215



Walk across the street, have a drink and chat with your peers and colleagues after the first day of the 2015 OTEC Conference. Drink Tickets will be provided

Questions: Contact Zach Stolarsky
zach.stolarsky@korda.com

Sponsored by: WTS, ASHE, ABCD, Engineers Club & ASCE



DEPT OF HEALTH WASTEWATER DESIGNERS

The Ohio Department of Health is preparing a list of consulting engineers qualified and interested in the design of small on-site sewage treatment systems in Ohio.

The Department adopted new sewage treatment systems rules effective January 1, 2015 that establish the standards for the siting, design, installation, monitoring, maintenance



and abandonment of sewage treatment systems including household and small flow on-site systems (systems that can treat up to 1,000 gpd). Several professional engineers participated in the extensive rule development process, and ODH currently has professional engineers represented on the sewage treatment systems technical advisory committee that provides review and recommendations to the Director of Health regarding sewage treatment system products for use in the state. ODH appreciates the contributions that professional engineers have made to the development of the rules and now their implementation.

If you or your firm is interested in being placed on this list, please contact Steven Schmidt at the Ohio Department of Health at Steven.Schmidt@odh.ohio.gov. For additional information on the new rules and submittal information, please click [HERE](#).

FREE WEBINAR - ROADWAYS IN URBAN CORE

What: Free Webinar - 1.0 PDH

When: Monday, Nov. 9, 2015
12:00 PM - 1:00 PM

Where: Korda/Nemeth Engineering
1650 Watermark Drive, Ste 200
Columbus, OH 43215

Topic: Redeveloping Roadways for the Urban Core within Constrained Right-of-Ways

RSVP: To newsletter@centralohioasce.com by Friday, Nov. 6, 2015.

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.



Purpose and Background

As our cities expand and population densities increase, our infrastructure network has had to increase and adapt to serve our growing needs. As the urban core expands, more and more rural facilities are transformed to match an urban setting. Similarly, as population densities increase within the urban core, there is a need to incorporate multimodal facilities into ever more constrained right-of-ways. Each of these types of transformations have their overall general challenges as well as context sensitive needs. The primary goals of this webinar are to assist engineers and planners in identifying the issues and then selecting best practices to solve the challenges of redeveloping transportation networks to accommodate the expanding urban core. The webinar discusses recent guidelines from the FHWA, AASHTO, NACTO, ULI and other societies to help designers in redeveloping roadways for the urban core.

Primary Discussion Topics

- Legacy issues from the slow conversion of rural roads to urban facilities
- Return of population to the urban core
- Implementing redevelopment visions into ex. facilities
- Identifying areas for improvement and selecting appropriate treatments

- Incorporating safety improvements for all users
- Accommodating multi-modal users in constrained R/W

Learning Outcomes

- Identify the challenges of transforming rural facilities to an urban setting
- Explain population movement trends to the urban core
- Apply best practices for redeveloping existing facilities
- Understand the needs of non-motorized users
- Select improvements to improve safety for vehicular and non-motorized users

Webinar Benefits

- Learn best practices and new methods for retrofitting single-mode facilities into multimodal settings
- Know how to design safer transportation facilities for vehicular and non-motorized users
- Discuss recent guidelines from various societies

Webinar Outline

- Overview and introduction to roadway redevelopment
- Legacy Issues of rural facilities in an urban setting
- Population movement trends to the urban core
- Best Practices for redevelopment of urban facilities
- Enhancing safety and operations for all users
- Course summary and conclusions

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.

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.

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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).

2015-2016 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday Oct. 15, 2015 Lunch	270/33 Interchange	ASCE/ ACI/ SEAO	Blazing Saddles Saloon	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	Villa Milano.	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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BOARD MEETING

Our Next Board Meeting
Will Be 11:30 A.M.
October 29, 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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