

May, 2014  
Volume 18, Issue 9

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## MAY AWARDS LUNCHEON

**DATE:** Thurs. May 15, 2014 11:30 AM Registration, 12:00 P.M. Lunch & Presentation

**LOCATION:** Villa Milano, 1630 Schrock Road, Columbus, OH 43229

### TOPIC: OSIS Downtown Odor Control Facility

We will present this year's awards for Outstanding Civil Engineer of Central Ohio and Outstanding Section Member of ASCE Central Ohio, and hear about the OSIS Downtown Odor Control Facility.



The OSIS Downtown Area Odor Control Facilities project was devised in 2007 in response to complaints of odors in the downtown riverfront corridor. Engineering analyses determined that the source of the odors was the Olentangy/Scioto Interceptor Sewer (OSIS), which traverses the downtown corridor and that bio-filters would be the most cost effective method of treatment. While odor mitigation was the main focus of the project, the odor control facilities will also provide ventilation for the OSIS Augmentation and Relief Sewer (OARS), which is a deep tunnel that will convey overflows from combined sewers to the Jackson Pike Wastewater Treatment Plant.

The presentation will cover the goals of the project, the field investigations performed to determine the odor source and sewer ventilation requirements, the design of the biofilter system, an overview of the construction process and an update on the performance of the facilities since construction was completed.

**SPEAKERS:** Greg Fedner, P.E., Project Manager, City of Columbus DOSD  
Lee Weber, P.E., Engineering Manager, Black & Veatch

**MENU:** Lasagna (with meat sauce) or Lasagna Cacciatora (Vegetarian). Please specify at time of registration.

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

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

**REGISTER:** Registration is due by Noon on Monday, May 12, 2014. Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. To register for this event please contact Mark Seidelmann at 614-844-4015, or [register@centralohioasce.com](mailto:register@centralohioasce.com).

**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:

We are nearing the end of my term as your president, and this is really my last formal message to you. I have been practicing civil engineering now for 30 years. Civil Engineering is without a doubt an unparalleled people serving profession, and there have been many enjoyable challenges along the way in my career to realize our main goal of serving people; however, I can tell you that this last year has definitely made a huge difference for me. It has been a great honor to be the chapter president for Central Ohio ASCE.

Our upcoming events:

On May 15<sup>th</sup>, we will meet at Villa Milano for lunch. During this meeting, our new Board will be sworn in office. We will also present this year's awards for Outstanding Civil Engineer of Central Ohio and Outstanding Section Member of ASCE Central Ohio. The main theme of the meeting will be a detail discussion of City of Columbus Downtown OSIS facilities. This will be a fantastic

opportunity to learn about our local projects. Check detail in this newsletter, and hope to see you all.

Also, our June Golf Outing planning is still under way. See details.

We will meet in June, and the upcoming president and the upcoming first vice president will lead a plan to schedule the next year's (2014-2015) educational and social events. We hope to see those who are interested in giving the chapter input. The time and the place will be announced.

Regards,

Michael Navabi, PE, D.WRE, BCEE, F.ASCE  
President – ASCE Central Ohio Section

[President@CentralOhioASCE.com](mailto:President@CentralOhioASCE.com)

## FIX THE HIGHWAY TRUST FUND!!!

**We need your help!** Please contact your Representative and Senators and ask them to fix the Highway Trust Fund so that states can continue to receive the transportation funds they need to improve transportation infrastructure across the country. Click [HERE](#) to send a pre-drafted, editable letter that is automatically sent to your Senators and Representative by entering your address.

The US Department of Transportation announced that the dwindling Highway Trust Fund is forecasted to become insolvent on August 29, which would lead to cutting annual federal highway investment from \$41 billion to \$6 billion and annual transit investment from \$11 billion to \$3 billion.

If we allow the Fund to run dry, the U.S. economy will lose jobs, projects will stop, and productivity will come to a halt. We must fix this problem now with a long-term, sustainable revenue solution to keep America competitive.

Over half of capital investments made by states on our nation's roads, bridges, and transit systems are supported by the federal highway and transit programs administered by the USDOT. Some states have already begun to scale back their plans because of the uncertainty of future federal funds.

Unless Congress acts now to prevent insolvency of the Highway Trust Fund in 2015, federal

surface transportation investment would have to be cut by at least 92 percent that year. On the other hand, if current revenue and spending rates remain unchanged, the shortfall would exceed \$100 billion by ten years from now. This is an unacceptable and unsustainable path.

ASCE President Randall S. Over, P.E., F.ASCE noted that "the report outlines an ominous picture for the Highway Trust Fund and is not good news for America. As more and more states are forced to put crucial transportation projects on hold due to the uncertainty of federal funds, the nation's surface transportation will continue to deteriorate, causing a negative ripple effect throughout our economy. Roads and bridges won't be maintained, businesses will suffer and jobs will be lost."

Eleven states have already stopped letting projects because of this federal transportation funding uncertainty.

ASCE, along with other stakeholder groups, has been actively meeting with members of Congress to push for a long-term sustainable funding solution to the Highway Trust Fund. ASCE members are urged to contact their elected representatives to tell them why fixing the Highway Trust Fund is critical to our nation's continued economic prosperity.



## ASCE INFRASTRUCTURE RADIO INTERVIEW

Kevin Carpenter was interviewed on a local radio program in Central Ohio, All Sides with Ann Fisher, about the state of Ohio's roads and bridges, and ASCE's infrastructure report card. Kevin is a member of ASCE, a former Region 3 governor, and past president of the Central Ohio ASCE section. Ann Fisher asked him about Ohio's bridges, and he described the reasons why ASCE rated them a C- and the challenges faced by the Ohio counties in funding bridge maintenance and replacement projects.

You can watch and listen to the recorded program on WOSU's website.

<http://wosu.org/2012/allsides/the-state-of-ohios-roads-and-bridges/>



Thanks to Kevin for discussing the issue in the public, and good job!

## 18th ANNUAL GOLF OUTING

With spring in full swing that means Golf Season is upon us. Don't forget to mark your calendars and sign up for the 18<sup>th</sup> annual ASCE Central Ohio Section Golf Outing to be held June 13, 11:00a.m. at Darby Creek Golf Course. The format is the ever popular 2 person mixed format. For a low entry fee of \$70 you get greens fees, cart, driving range, drink tickets, lunch, steak and chicken dinner, beverages, tons of hole and place prizes and lots of "those" pies at the end.

This outing has raised almost \$30,000 over the years to support the Younger Member Group (our annual chefs at the outing), Civil Engineering Career Day and numerous other programs. This is made possible with the generous sponsorships from many Central Ohio firms and businesses. Please consider being a hole sponsor for \$100 or a lunch/dinner/beverage



cart sponsor for \$250 which includes hole recognition as well.

For any questions in regards to sponsorship and/or registering to

play, please contact Jim Pajk at 614-525-3021 or email at [jpajk@franklincountyengineer.org](mailto:jpajk@franklincountyengineer.org). Go to the ASCE Central Ohio website, [www.centralohioasce.org](http://www.centralohioasce.org), to download a flyer.

## MOTORCYCLE RALLY & DINNER

ASCE is offering a motorcycle tour for non-golfers in coordination with the ASCE Golf Outing on June 13. The cost will be \$25 for dinner at the Darby Creek



Golf Course, located between Plain City and Marysville. We typically start the ride from the McDonalds at SR 161 and Avery-Muirfield Drive

in Dublin around noon, and finish at the golf course between 4:00 and 5:00 PM. The tour will navigate the back roads northwest of Columbus with stops at some notable (or not so notable) sites in the area of Union, Logan, Madison, and/or Champaign Counties. It is a scenic ride, the food at the golf course is great (prepared by the Younger Member Group), and it is a time to renew acquaintances in the business at dinner. To sign up or for more information contact Dave Pritchard at 614-519-4819 or [davepritchard@sbcglobal.net](mailto:davepritchard@sbcglobal.net).

## CIVIL ENGINEERING CAREER DAY



Under the sponsorship of the ASCE Central Ohio Section, the 2014 High School Civil Engineering Career Day took place on Thursday, April 24. Beth Meek (S&ME), Emily Wieringa (Columbus Zoo) and Carolyn Merry (OSU) organized the event. A welcome reception was held at the Department of Civil, Environmental and Geodetic Engineering at The Ohio State University. Three tours were conducted that related to different aspects of civil engineering.

The first tour in the morning session was of the new Zoombezi Bay Baboon Lagoon – a \$4.5M project – at the Columbus Zoo led by Emily Wieringa. This is a new multi-level play structure with pools.



The second tour of the morning was of the Emerald Parkway extension between Sawmill Rd and Riverside Drive. Ken Richardson (City of Dublin) and Igel representatives gave an overview of the \$8M project.

The group traveled to lunch at the OSU 4-H Center, where they were joined by three OSU students. Carolyn Merry gave a talk about the civil engineering program at OSU and Deb McAvoy gave a talk about the civil engineering program at Ohio University.



The tour in the afternoon session was of the Scioto Greenway Project showing the downtown Main Street Dam removal – a \$35.5M project – that was led by Nell Selander (Columbus Downtown Development Corporation), Bryon Ringley (Stantec), and Jeff Ruschau (Messer).

There were 18 high school students participating in the program, representing St. Francis DeSales, Olentangy Liberty, Westerville South, Whitehall Yearling, Hilliard Davidson, and Columbus Alternative. Each student received a hard hat and a pair of safety glasses as a memento of the event. As the day went on, the students were asking more and more questions, so we could tell that they had been listening throughout the day. We may have a few future civil engineers from this group of juniors!

## OHIO SCIENCE DAY

ASCE Ohio Council is once again presenting awards for Civil Engineering related projects at the State Science Day here in Columbus. Will you be able to serve as a judge this year? It is a great incentive to the students, rewards their interest in engineering, and encourages them in engineering careers. The Central Ohio Section sponsors one award for which we need to pick first, second, and third place student projects from everyone that applies.

The date is Saturday, May 10, typically from 7:30 am until 12:30 pm.

If you can volunteer to be a judge, please contact [newsletter@centralohioasce.org](mailto:newsletter@centralohioasce.org) to reserve your spot and obtain more information.

Also, if you know of anyone that would make a good judge, please let them know about this opportunity. We are especially seeking younger engineers or engineering students, and women engineers.

If you would like to see more information about state science day, their website is here:

<http://ohiosci.org/state-science-day-2014/>



## FREE WEBINAR - MODERN ROUNDABOUTS

**What:** Free Webinar - 1.5 PDH

**When:** Thurs., June 19, 2014

12:00 PM - 1:30 PM

Bring your own lunch

**Where:** Korda/Nemeth Engineering, Inc.

1650 Watermark Drive, Ste 200

Columbus, OH 43215

**Topic:** Modern Roundabouts: The Geometric Aspects

**RSVP:** To [newsletter@centralohioasce.org](mailto:newsletter@centralohioasce.org) by Tuesday, June 17, 2014.

\*Open only to Central Ohio ASCE Section Members.

\*Seating is limited to the first 25 people.

### Purpose and Background

This webinar will focus on the best practices for designing the geometric aspects of roundabouts to maximize the safety of all road users using guidance from the latest publications from FHWA and TRB. About 65% of all crashes in urban areas and 40% of all crashes in rural areas occur at or near intersections or driveways. Safety improvements at these locations have always been a priority and pose a challenge for most transportation agencies. Because crashes are typically complex events, a variety of mitigation measures have been tried with varying degrees of success, including the modern roundabout. This webinar will focus on the best practices for designing the geometric aspects of roundabouts to maximize the safety of all road users using guidance from the latest publications from FHWA and TRB. Three case studies will be used to highlight problems that can result from roundabouts that are not designed in accordance with best practices.

### Primary Discussion Topics

- Geometric aspects of roundabout design
- The best sources of information about roundabouts
- The latest FHWA Roundabout Reports and, NCHRP Report 672 and also the research from NCHRP Report 572
- Three case studies highlighting various issues that arise from improperly designed roundabouts



### Webinar Benefits

- Learn how to design various types of modern roundabouts to maximize capacity
- Understand the key horizontal and vertical geometric design parameters
- Recognize the relationship of geometry to safety and geometry to capacity from a design perspective
- Become more familiar with the latest edition of FHWA's Roundabout Guide (NCHRP 672)
- Learn best practices for handling pedestrians and bicyclists at modern roundabouts

### Webinar Outline

- Right of way impacts
- Design parameters affecting capacity
- Relative importance of entry and exit radii
- Geometric design to reduce path overlap
- Addressing potential crash patterns
- Splitter islands
- Truck aprons
- Spacing to adjacent traffic signals
- Sight distance
- Lesson

The Central Ohio Section of ASCE 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 Central Ohio Section is paying the registration fee and inviting any interested section members to attend for free. Just RSVP by the deadline. Seating is limited, so do not delay.

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.

## OHIO ENGINEERS LEGISLATIVE DAY

**What:** Ohio Engineers  
Legislative Day  
4 CPD hours available

**When:** Wed, May 28, 2014  
9:00 AM - 1:45 PM

**Where:** The Capital Club - Columbus, OH  
ASCE members may register for a **30% reduced price!**

Join the Ohio Society of Professional Engineers, with ASCE Ohio Council of Local Sections as co-sponsor, for the 2014 Ohio Legislative Day. The program includes a representative of ASCE's headquarters. Use this opportunity to visit your legislator's office following the program to encourage their support of infrastructure and industry related issues.



Topics will include:

- Ohio Public Works Commission - Accomplishments of the Last 20 Years
- Bridging Our Way to the Future With Public Private Partnerships
- Good Samaritan Law / Computer Based Testing
- Fracking - Regulation & Taxes
- Bill Summary
- Making the Highway Trust Fund Solvent

Click [HERE](#) to register.

## INTERNATIONAL CONF. ON PERPETUAL PAVEMENT

**What:** International Conference on Perpetual Pavement (ICPP)

**When:** Oct. 30-31, 2014

**Where:** Hilton Columbus/Polaris

We invite you to attend the ICPP, an international conference that the Central Ohio Section of ASCE is sponsoring. This is the only conference focused solely on Perpetual Pavement: flexible pavements designed with a lifetime over 50 years of service with only periodic surface renewal. Perpetual pavements contain a surface layer of high quality hot-mix asphalt that resists rutting and traffic wear, intermediate layers of high modulus asphalt that provides structure and also resists rutting, and a fatigue resistant bottom layer for crack resistance. Perpetual pavements are becoming popular with transportation agencies seeking to reduce lifecycle costs and eliminate user impacts associated with pavement reconstruction. At

the previous International Conferences on Perpetual Pavement (2006 and 2009), over 250 experts representing over a dozen countries and 30 states, came together to share their knowledge, research, and experiences with Perpetual Pavement. Nineteen state departments of transportation sent a representative.

ICPP 2014 is structured around presentations on research and practical issues such as design verification and calibration, modeling, instrumentation, monitoring, and construction and maintenance and includes two keynote speakers. Professional Development Hours will be available.

For more information or to register see the conference web site at <http://www.ohio.edu/icpp/>. You may also contact the Ohio Research Institute for Transportation and the Environment at [orite@ohio.edu](mailto:orite@ohio.edu), or by calling (740) 593-0430 (Tuesday-Thursday 8:00-5:00 only).

## OHIO UNIV. STUDENT SUCCESSES

Please congratulate the Ohio University Student Chapter for their recent accomplishments:

Placed 1st in the Environmental Competition at the Ohio Valley Student Conference

This competition involved the treatment of simulated flu gas desulfurization (FGD) wastewater. Tasks were:

- Treating for conductivity, total sulfates, total calcium, total suspended solids (TSS), and pH
- A time constraint requiring the treatment process take place in less than 45 minutes and construction of the process in less than 15 minutes
- Estimating the cost of the treatment process, including an operator and power usage
- Constructing the system from building materials available from a hardware store

Teams were evaluated on their design poster, system costs, construction speed, and treatment effectiveness. The team used alum for coagulation and ammonia for pH adjustment.

Placed 4th Concrete Canoe Completion at the Ohio Valley Student Conference

This competition involved design and fabrication of a canoe using light-weight concrete. The competition consisted of a design paper, an oral presentation, overall product judging, and races. The races consisted of a men and women's 200 meter sprint and a 600 meter slalom/endurance races, and



a co-ed 200 meter sprint. All of these aspects were used to determine an overall winner and the top team advanced to the national competition. After resurrecting the concrete canoe team in 2007, this year's team made the best showing to date.

Honorable Mention from ASCE National after being named in the Top Third of Student Organizations Nationally

2014 ASCE Student Organization Award winners were selected by the Committee on Student Members, based on activities recorded in the 2013 Annual Report. These award winners participated in a variety of activities, from community service projects to professional meetings to social activities. Please click [HERE](#) to view other award winners.

*A big thank you goes out to all of the students for their hard work, Facility Advisor Deborah McAvoy, Dean Dennis Irwin, the Russ College of Engineering and Technology, and Bob Heady who serves as practitioner advisor for their support.*

## CADD INSTRUCTION A SUCCESS



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 introduced 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. Attendance ranged from 15-40 students.

Thank you to the following individuals who offered their time and expertise to this successful outreach effort: Matt Baxendell, Woolpert; Tom Less, Woolpert; John Moorehead, Advanced Civil Design; Matt Marquis, S&ME; Dax Clapsaddle, George J. Igel Inc.; Will Ferguson, CEC Inc.; Jennifer Rivera, Geotechnical Consultants.



## 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 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 use and cannot be checked out. They are located on the 3rd floor in a special collection area of the main Columbus library (north side of building in the half-height stacks).

Thanks to Adam Rich for organizing the donation.



## ASCE STRUCTURES CONGRESS



Save the Date  
STRUCTURES CONGRESS 2015  
Portland, Oregon - U.S.A  
April 23 - 25, 2015

### CALL FOR PROPOSALS

Submit your abstract and/or full session proposal today for Structures Congress 2015.

We are currently accepting proposals for complete sessions and abstracts for individual papers to be presented at Structures Congress 2015. The Congress provides a forum to advance the art, science, and practice of structural engineering. All proposals are due

June 11, 2014. Visit the conference website for all the details [www.structurescongress.org](http://www.structurescongress.org)

### Top 5 Reasons to Attend this Congress

- Network and make connections with leaders in your profession
- Gain Knowledge by attending outstanding technical sessions - over 110 from which to choose
- Earn Professional Development Hours (PDH's) in technical sessions
- Interface with students and young professionals
- Visit Portland for roses, parks, museums, outdoor adventure, great food, and so much more.

## REFER A COLLEAGUE TO ASCE, WIN PRIZES

Share your passion for ASCE with civil engineering colleagues and win prizes! It's as simple as 1, 2, 3...

1. Recruit - Tap into your network of friends and colleagues and tell them about the value of ASCE. To help you get started, download [ASCE Benefits-at-a-Glance](#) or visit [Recruitment Tools](#).

2. Refer - Simply complete the [ASCE Membership Drive form](#) and we'll do the asking for you. Your recruits will receive a special email invitation and you will get reward credit when they join.

3. Reward - The more recruits who join, the more you win! We'll keep [your personal scoreboard](#) up-to-date so that you can track all of your colleagues and friends who join.

When the drive ends on August 1, 2014, we'll award cash prizes to:

- Top Region
- Top Younger Member Groups
- Top Sections & Branches
- Top Recruiter
- New Member

## 2013-2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday May 15, 2014 Lunch	Columbus Biofilters / Annual Awards Lunch / ASCE Region 3 Director	ASCE	Villa Milano	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)

## 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.



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## OHIO GEOLOGIC SOCIETY

**What:** One Day Core Workshop - Presented by the Ohio Geological Society and the ODNR Division of Geological Survey

**When:** Friday, May 30, 2014

**Where:** H.R. Collins Laboratory  
Delaware, Ohio

**Topic:** Depositional Systems and Hydrocarbon Potential of Upper Devonian Shales of the Western Appalachian Basin

**Instructors:** Brian Currie, Mac Swinford, Joe Hannibal, John Wicks, Mike Angle and Brian Mott

**Registration Fee:** \$195 (prior to May 23)

\$250 (after May 23)

(includes continental breakfast and lunch)

For more information click [HERE](#) or email [macswinford@gmail.com](mailto:macswinford@gmail.com).

### KEEP UP TO DATE

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### BOARD MEETING

*Our Next Board Meeting  
Will Be 11:30 AM*

*May 29, 2014*

*Location: T.B.D.*

*3000 Corporate Exchange Dr.  
Columbus OH 43231*



## 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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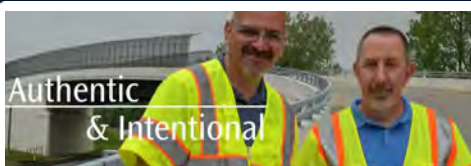
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