

ASCE Newsletter

Central Ohio Section

February, 2015
Volume 19, Issue 6

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FEBRUARY E-WEEK LUNCHEON

DATE: Thurs. Feb. 26, 2015
11:30 AM Registration
12:00 P.M. Lunch & Presentation

LOCATION: Bridgewater Conf. Center,
10561 Sawmill Pkwy, Powell, OH 43065



FEBRUARY 22-28, 2015

TOPIC: Engineering New Horizons:
Honda and the Power of Dreams

Clement D'Souza is the Engineering Large Project Leader at Honda of America Mfg., Inc. He will talk about his experiences working with Honda, in particular:

- Good engineering starts with the willingness, ability, and empowerment to dream. At Honda we believe that dreaming big is the key to success.
- Clement will share what he has learned since he started at Honda, how the challenges he faced in launching mass production products prepared him for the biggest challenge of his professional career - developing a state-of-the-art manufacturing facility that will build the first-ever supercar produced in the United States.
- As the production leader for the NSX project, Clement will explain the thrill in creating an all-new plant to build an all-new super sports car. He will talk about the focus of him and his team on creating a plant that has the perfect synergy between man and machine.



SPEAKER: Clement D'Souza is an engineering large project leader at Honda of America Mfg. currently assigned to the New Model Group for the Acura NSX and the startup of the new Performance Manufacturing Center. Born in Bombay, India, D'Souza earned Bachelor's of Science degrees in physics from the University of Bombay (1984) and mechanical engineering from Michigan State University (1988). He speaks three languages, English, Hindi and Japanese and lives with his wife and two children in Powell, Ohio.

MENU: Choice of Slow Roasted Chicken Breast, Roasted Pork Loin, or Vegetarian entrees.

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

COST: \$25 Early Bird by February 13. \$35 after February 13. \$Free for students (register thru Joy Lanham joy@lanhamengineering.com).

REGISTER: Registration is due by 5:00 PM on Friday, Feb. 20, 2015. Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. Contact Carlos Vazquez at 614-634-7132, 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. Walk-ins will be accepted until seating capacity is reached.

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LETTER FROM THE PRESIDENT

Central Ohio Section Members:

I know just as well as anyone how easy it is to get caught up in and to focus on the day to day rigmarole that we all go through in our professional life. Deadlines, reports, emails, conference calls, meetings are all necessary evils in the execution of our duties. We often don't get the opportunity to take a step back and really take a look at what we accomplish. That is until today. What I want you all to do for me is take a moment...or two to think about what you have accomplished in your professional life, and to write in a sentence or two what you are proud of. Then I want you to go so far as to send it in an email to president@centralohioasce.com. I have been doing this a lot lately to combat a general panic related to the various tasks that are piling up on my desk, and I have to say, taking a moment to look at what I have been able to accomplish has really given me the sense that I

can handle anything that is thrown at me. For an example of what I am talking about here is what came to mind with my two sentences: "I am proud that I have been able to use improved data to accurately assess the flood risk in hundreds of communities across the country. I have used this information to assist communities in communicating the risk to their citizens and have started them down the path of reducing that risk."

I think that we, as a profession, have a lot to be proud of and I think that this sort of exercise will highlight the diversity of accomplishments that have been attained in our section.

Sincerely,

Mark Seidelmann, PE, GISP, M.ASCE

President – ASCE Central Ohio Section

president@centralohioasce.com

2015 STEM EXPO

What: 2015 STEM Expo

When: Sat. Feb. 28, 2015

9:00 AM-1:00 PM

Where: The Metro School
(OSU campus)

1929 Kenny Rd,
Columbus, OH 43210



After much success in 2014, the ASCE Central Ohio Section Younger Member Group is hosting a STEM (Science, Technology, Engineering, Math) Expo at the Metro School on the Ohio State Campus on Saturday, February 28, 2015 to conclude Engineer's Week. The Younger Member Group is seeking local STEM companies to sponsor hands-on, STEM related activities for the event. The goal is to expose K-8 students to the world of STEM through fun, interactive activities.



Rather than seek monetary sponsorship, we invite local STEM professionals to organize an activity on behalf of their employer. Sponsoring



an activity is an easy and great way to get involved in this educational and outreach event. Activity sponsor responsibilities would include:

- Developing a fun, interactive STEM related activity
- Obtaining funding through your employer for the activity materials, if necessary
- Facilitating the activity at the STEM Expo event (typically 2-3 people are needed)

Information for the event, including a list of sponsors and the planned activities can be found at <http://www.centralohioasce.com/STEM-Expo>

Please help us make this a great community event. Event T-Shirts will be available for activity sponsors for a cost of \$12 per shirt. Contact STEMexpo@centralohioasce.com to RSVP, sponsor an activity, order T-Shirts, or submit questions. We thank you for your support!

CONGRESSIONAL FELLOWSHIP OPPORTUNITY



ASCE is in the process of selecting the next Congressional Fellow. The ASCE Congressional Fellows Program provides an opportunity for an ASCE member to work for one year on the staff of a Congressional Committee, U.S. Senator or member of the U.S. House of Representatives. The deadline for applications is **February 27, 2015** for the Fellowship year beginning September 1, 2015.

Since 1997, eighteen ASCE members have been Congressional Fellows. ASCE Fellows join with more than 30 colleagues from 22 other engineering and scientific organizations to bring engineering and scientific advice to members of Congress. Since the program's founding by the American Association for the Advancement of Science (AAAS) in 1973, the Congressional Fellows Program has had several objectives. First and foremost has been to create a cadre of Congressional staffers who understand science and engineering and enhance the capabilities of Congress to deal with those issues. A second

objective has been to develop a group of scientists and engineers who understand Congress and who will return to help the science and engineering community improve its ability to impact public policy. The third objective has been to expose members of Congress and their staffs to the ways of thinking in scientific and engineering fields. The final objective has been to make it easier for the general scientific and engineering community to deliver messages to Congress.

The Congressional Fellowship is open to any ASCE member who is a U.S. citizen. Factors to be weighed by the selection committee include advanced degrees, registration as a Professional Engineer, involvement in ASCE, public policy experience and professional experience. Additionally, the selection committee must also be sensitive to possible conflicts of interest. An annual stipend and relocation expenses are available.

For more information about the Congressional Fellows program visit the [ASCE website](http://www.asce.org) or contact Martin Hight, Senior Manager, Government Relations at 202-789-7843 or mhight@asce.org.

CIVIL ENGINEERING ACHIEVEMENT AWARD NOMINEES

Ohio Outstanding Civil Engineering Achievement Award Criteria

The Ohio Council of ASCE is soliciting nominations for the 2015 Ohio



Outstanding Civil Engineering Achievement Award. Selection criteria for the Ohio OCEA Award parallels national ASCE's criteria except that nominated projects must be located within Ohio's borders. Projects nominated for but not winning the national ASCE OCEA competition are eligible. Ohio Council's OCEA winner will be selected by a committee of judges representing each Ohio Section. The award is given annually to a Civil Engineering project, not an individual or firm, to recognize the contribution of the many engineers who have worked on the project.

Selection is based on how the project demonstrates the application of civil engineering skills and its contribution to civil engineering progress and mankind. Judges will consider the

following criteria: (1) contribution to the well-being of people and communities, (2) resourcefulness in planning and in the solution of design problems, (3) pioneering use of materials and methods, (4) innovations in construction, (5) impact on the physical environment, unusual aspects, and esthetic values, and (6) the project's potential adverse effects. The nomination should look frankly at the project's potential problems.

A bronze plaque will be awarded to the winning Ohio Project to be mounted in a prominent location at the project site. The presentation ceremony will provide an excellent opportunity for publicity and recognition.

Guidelines for Eligibility

Projects must generally be substantially completed and operating for their intended purpose to be considered for the award. Most any civil engineering project is open for consideration. Detailed guidelines will be available soon.

Submittals

The submittal deadline is February 27, 2015. For additional information, entry forms and detail requirements click [HERE](#).

FREE WEBINAR - SUSTAINABLE URBAN CORRIDOR

What: Free Webinar - 1.5 PDH

When: Tues., Feb. 10, 2015

12:00 PM - 1:30 PM

Bring your own lunch

Where: Burgess & Niple

5085 Reed Road

Columbus OH 43220

Topic: Sustainable Transformation/Rehabilitation of an Urban Corridor

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

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.



Purpose and Background

During the past 50 years, roadway infrastructure in the urban environment has been focused on moving vehicles as quickly as possible from one place to another – generally into the city in the morning and to the suburbs in the evening. As urban living becomes more popular and dependence on the automobile becomes less desirable, city officials are looking at ways to transform roadway corridors into comprehensive transportation networks. This hierarchical network needs to function efficiently to support the movement of people and goods, as well as benefit the communities in which they are located. This webinar will show various challenges and solutions addressed in a rehabilitation infrastructure project in Washington DC – the Rehabilitation of H Street NE.

Primary Discussion Topics

- Incorporate traffic calming devices
- Integrate multi-modal transportation strategies
- Expand the public realm
- Mitigate disturbance to businesses during construction
- Design is a process – stakeholder involvement is not just for the community; it includes navigating through multiple government needs, requirements, and future goals

Learning Outcomes/Webinar Benefits

- Develop a strong team of professionals

- Maintain a consistent dialogue between the design team and the client, and the client and the community
- Respond to the changing nature of public expectations
- Apply the three principles of sustainability – cultural, economic, and environmental. Add a fourth element which is the human impact to the environment
- Improvise when design standards cannot be applied
- Discover how to avoid costly errors
- Learn technical solutions applied in the design
- Understand the symbiotic relationship between civil engineers, landscape architects, traffic engineers, lighting engineers, urban designers, and public outreach consultants needed to complete the project
- Understand how the corridor has transformed after three years of construction completion and how it will change in the next three years
- Learn design production tricks
- Hear about the importance of checking condition in the field during the design process

Webinar Outline

- Description of the Corridor before the project
- Description of how improvements along the corridor help economic, cultural, and environmental conditions.
- Stakeholder engagement process – public, private developments, and government agencies
- Technical challenges resolved during the design process
- Lessons Learned

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.

INPUT: DELAYED OR CANCELED PROJECTS

As you can likely tell, the Congressional debate is beginning to take shape regarding the need to avert another Highway Trust Fund crisis and reauthorize the surface transportation program (MAP-21) before the May 31, 2015 legislative deadline. ASCE would like to keep Congress informed about the impact short-term funding extensions and inadequate revenues are having on the ability of our members to plan and deliver highway & transit projects. If you have specific

real-world examples of recent projects that have been delayed or canceled due to the uncertainty present in the federal program, please share them via the govwash@asce.org email address. ASCE describes the troubling dynamics associated with short-term federal funding extensions quite often but are always looking for specific examples to help educate Members of Congress on this issue.

ROBERT O'SHEA ENGINEERING ETHICS AWARD

The Ohio Council of ASCE is seeking papers from Ohio ASCE Student Chapters/Clubs and Younger Members Groups for the 2015 Robert O'Shea Engineering Ethics Award. One winner will be selected to receive an award certificate and a cash award in the amount of \$500.00. The organization to which the winner is affiliated (Student Chapter/Club for a student, Section Younger Members Group for a younger member) will receive the cash award. The author of the paper representing the organization that is selected as the winner will receive the award certificate.

Younger members of any of the Ohio Sections of ASCE and undergraduate members of the ASCE Student Chapters/Clubs from any college or university located in Ohio who are in good standing at the time their papers are submitted are eligible to author the paper. Each Younger Member Group from a Section located in Ohio and each Student Chapter/Club from a college or university located in Ohio may submit one paper to the competition. The author may be selected

in any manner by the Younger Members Group or Student Chapter/Club according to local practice.

Papers are to be submitted using the topic of the 2015 National ASCE Daniel W. Mead Prize, and papers submitted for the Robert O'Shea Engineering Ethics Award may also be submitted for the Daniel W. Mead Prize. The 2015 Mead Prize topic for students is "Should the Engineer of Record (who has sealed a set of plans) be held responsible, to any degree, for injury or death to builders or bystanders that occurs during the construction of his/her design?" The 2015 Mead Prize topic for younger members is similar but authors need to review the instructions for the 2015 Mead Prize for Younger Members [HERE](#).

Papers shall not exceed 2,000 words and must be submitted by March 1, 2015. Individuals interested in submitting should contact their respective Younger Member Group or Student Chapter/Club for additional details and requirements.

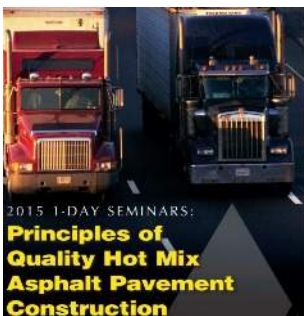
ASPHALT SEMINAR

What: Construction of Quality Hot Mix Asphalt Pavements Seminar

When: Thursday, Feb. 12, 2015
8:00 AM - 5:00 PM

Where: Ohio Department of Transportation
Central Auditorium
1980 W Broad St
Columbus OH 43223

The Asphalt Institute is pleased to offer its one-day workshop "Principles of Quality Hot Mix Asphalt Pavement Construction." Attend this course and you will learn to produce high quality pavements by learning the basic principles of hot mix asphalt pavement construction and the inspector's responsibilities at various



stages in the construction process. You will develop a general understanding of hot mix materials, production, and placement and compaction operations. Extra attention will be given to mix placement and compaction.

This workshop is designed for engineers, inspectors, technicians and contractor personnel responsible for quality control of paving materials, mix design procedures, the inspection and operations of asphalt plants, and paving operations. Participants should include personnel from federal, state, county and local agencies, airport authorities, paving contractors, consulting engineers, and testing laboratories.

Participants will receive a continental breakfast, breaks, lunch, a personalized certificate for seven and a half (7.5) Professional Development Hours (PDHs), and the Asphalt Institute's MS-22 Manual: Construction of Hot Mix Asphalt Pavements (a \$65 value) and other course materials.

The best way to register for seminars is online using AI's secure website www.asphaltinstitute.org. For any questions, contact Asphalt Institute headquarters at 859.288.4960 or email to seminars@asphaltinstitute.org.

CIVIL ENGINEERING 17th BEST JOB



Glassdoor, an online career community site, recently published their **25 Best Jobs in America for 2015** list, and Civil Engineering placed 17th. The jobs were ranked based on the overall Glassdoor Job Score determined by three factors: number of job openings, average base

salary, and a career opportunities rating. Click [HERE](#) for the top 25.

17. Civil Engineer - Glassdoor Job Score: 4.3

- Number of Job Openings: 6,120
- Average Base Salary: \$73,383
- Career Opportunities Rating: 3.5

FREE WEBINAR - HEC-GeoRAS MAPPING

What: Free Webinar - 1.5 PDH

When: Tues., March 3, 2015
12:00 Noon - 1:00 PM
Bring your own lunch

Where: S&ME, Inc.
6190 Enterprise Court
Dublin OH 43016

Topic: Floodplain Mapping Using HEC-GeoRAS and RAS Mapper

RSVP: To cnye@smeinc.com by Friday, Feb. 27, 2015.

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.

Purpose and Background

HEC-GeoRAS is an ArcGIS toolbar that helps incorporate LiDAR and other topographic datasets in to HEC-RAS. This webinar will demonstrate how to add topographic data to a HEC-RAS model once the HEC-RAS model has been run, and how to map the resulting floodplain using both HEC-GeoRAS and the new HEC-RAS tool, RAS Mapper.

Primary Discussion Topics

- HEC-GeoRAS files
- Incorporating survey data
- Attributing Shapefiles
- Exporting to HEC-RAS
- Importing into HEC-RAS
- Setting up the HEC-RAS geometry file



- Mapping results in RAS Mapper
- Exporting results and mapping with HEC-GeoRAS

Learning Outcomes

- Understand how to create HEC-RAS models based on topographic data that can include survey
- Know how to map the results using both RAS Mapper and HEC-GeoRAS once the HEC-RAS model is created

Webinar Benefits

- Learn how to set up a HEC-RAS model based on topographic data
- Learn out to efficiently incorporate survey data into a HEC-RAS model
- Learn how to partially or fully replace HEC-RAS cross sections based on topographic data
- Understand differences between mapping results with RAS Mapper and HEC- GeoRAS

Webinar Outline

- Introduction
- File set up
- Required and optional data
- Incorporating survey in ArcGIS
- Exporting and importing to HEC-RAS
- Incorporating survey in HEC-RAS/Partial replacement of cross-section geometry
- Floodplain mapping with RAS Mapper
- Exporting from HEC-RAS
- Importing in to ArcGIS
- Mapping with HEC-GeoRAS
- Mapping comparison

CADD CLASS VOLUNTEERS



Starting again in 2015 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 Matt Baxendell (Matt.Baxendell@woolpert.com) if you're interested in taking part.

2015 OHIO CONSTRUCTION CONFERENCE

What: Ohio Construction Conference

When: March 19, 2015

Where: The Ohio Union - 1739 North High St.

Save the date for the 2015 Ohio Construction Conference. The conference will bring together a unique mix of industry leaders in the commercial construction community - representing owners, facility managers, architects, engineers, contractors, subcontractors, and suppliers in a constructive,

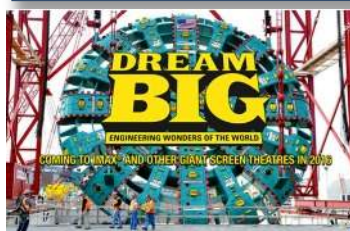


collaborative conference aimed to benefit each component of a project team. For additional information, click [HERE](#).

2014 - 2015 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday February 26, 2015 Lunch	Engineers Week - Engineering New Horizons: Honda and the Power of Dreams	ASCE/ ALL	Bridgewater Conference Center	Engineers Week Committee
Thursday March 26, 2015 Lunch	Bridge Park Development	ASCE/ SEAoO	Villa Milano	Matt Inkrott
Wednesday April 22, 2015 Dinner	OU/OSU Student Chapter Presentations & Portsmouth Bypass	ASCE	Old Canal Smokehouse - Chillicothe, OH	Tony Klimek - Lower Scioto Valley Chapter
April/May 2015 (TBD) All Day	ASCE Spring Seminar - Roundabouts	ASCE	TBD	Chris Nye
Thursday May 21, 2015 Lunch	ASCE Region 3 Director & Awards Luncheon	ASCE	Schmidt's Sausage Haus	Carlos Vazquez
June, 2015	2015-2016 Planning Meeting	All	Tommy's Pizza - Dublin, OH	A.J. Smith
Friday June 12, 2015 Lunch & Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk

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](#).

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 AM
March 5, 2015
Location: Stantec
1500 Lake Shore Drive, Suite 100
Columbus OH 43204

REGIONAL CONTINUING EDUCATION SEMINARS

ASCE's Continuing Education Department is proud to announce the schedule of seminars and workshops for the fall in winter in the Region 3 geographic area. Additional information on these seminars may be found at the following website: <http://mylearning.asce.org/diweb/catalog/t/2116/c/79>. These face-to-face seminars are comprised of small groups of like-

minded individuals, allowing for personalized attention from instructors to meet your needs. More than 200 courses take place across the nation for a variety of specialty areas. Register two or more individuals from the same organization for the same Seminar (title, date, and location) and save 10% on each seminar registration.

Program	Full Dates	City/State
Design of Concrete Pavements — NEW	November 6—7, 2014	Cincinnati, OH
Structural-Vibration Analysis: Design and Troubleshooting	November 19—21, 2014	Chicago, IL
Designing Nonbuilding Structures Using ASCE/SEI 7-10 ~NEWLY UPDATED	December 4—5, 2014	Cincinnati, OH
Managing the Design Process: Keeping on Schedule, within Budget, and Selecting the Right Resources	December 11—12, 2014	Chicago, IL
Instrumentation and Monitoring Bootcamp: Planning, Execution, and Measurement Uncertainty for Structural and Geotechnical Construction Projects	February 26—27, 2015	Chicago, IL
Wind Loads for Buildings and Other Structures	February 5—6, 2015	Chicago, IL
Leadership Development for the Engineer	March 5—6, 2015	Cincinnati, OH

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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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