

ASCE Newsletter

Central Ohio Section

March, 2012
Volume 16, Issue 7

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MONTHLY LUNCHEON

Date/Time: Tuesday, March 27, 2012 - 11:30 A.M. Registration - 12:00 Noon Luncheon

Locations: The OSU Fawcett Center – 2400 Olentangy River Rd - Columbus, OH 43210

Speaker: James A. Pajk, P.E. - Franklin County Deputy Engineer, Bridges
Richard Engle, P.E. - E.L. Robinson Engineering of Ohio, Vice-President

Topic: **The Dodridge Street Bridge**

The Dodridge Street Bridge is a three span arched reinforced concrete girder structure spanning the Olentangy River in Columbus, Ohio. The bridge project is being built during the 2011 and 2012 construction seasons.



A short presentation will discuss Franklin County's approach to the structure type determination and some of the design challenges affiliated with this project.

A tour of the project site will take place immediately after the presentation for those interested. Attendees will be required to drive to the project site and bring their own hard hat, safety vest and appropriate footwear for walking to the site. The site is located approximately five minutes from the Fawcett Center. Maps and directions as to where to park will be given at the presentation.

Menu: Lasagna, country style green beans, bread, spinach salad with assorted dressings. Coffee, water, and iced tea will also be available. Vegetarian or dietary restricted meal choices are available (please specify during registration).

PDH: A certificate for one (1) Professional Development Hour (PDH) will be issued at the conclusion of the program.

Cost: \$20 - ASCE, ASHE Members and Guests. \$10 Students and ASCE Life Members. Prepayment is encouraged online via PayPal or mailing a check (payable to ASHE Central Ohio) to: Central Ohio ASHE c/o Franklin County Engineers Office, 970 Dublin Road, Columbus, OH 43215

Registration: Please register and pay online with a credit card at <http://www.centralohioashe.org> or call 614-525-3030. Registration is due by 5:00 PM on Wednesday, March 21, 2012. Please note: Late registrations or walk-ins may not be accepted. Registration fees may still be required for no-shows and registrants canceling after March 21, 2012.

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LETTER FROM THE PRESIDENT

I would like to thank those of you that were able to attend the E-Week luncheon in February. Once again the planning committee did a great job on providing a topic and presentation that is relatable to all disciplines of engineering.

This month ASCE has teamed up with ASHE to provide a lunch presentation and tour of the Dodridge Street Bridge project. Speakers James Pajk, P.E. from the Franklin County Engineers Office and Richard Engel, P.E. of E.L. Robinson Engineering will be presenting at The Fawcett Center and the tour will be held at the project site which is in close proximity. Those who would like to attend will be required to provide their own transportation to the site and proper PPE during the tour. Please see the announcement for complete details.

As identified in last month's newsletter, the Central Ohio Section is seeking nominations for the *Outstanding Central Ohio Section Member*, *Outstanding Civil Engineer of Central Ohio*, and the *Ohio Outstanding Civil Engineering Achievement* awards. Nominations for these awards can be submitted by emailing ASCE Central Ohio at asce@centralohioasce.com.

Also please be sure to register for the upcoming Technical Seminar entitled "Use of Geographic Information Systems (GIS) for engineering applications" that will be held on April 24, 2012 at the Crowne Plaza Hotel Columbus North. Please check the website for further details.

Michael Mazzoli

President@CentralOhioASCE.com

2012 - 2013 ELECTIONS

| BALLOTS FOR 2012-2013 OFFICERS | | |
|--------------------------------|--|--------------------------------|
| Position | Nominated Candidate | Write-In Candidate |
| President | <input type="checkbox"/> Adam Rich, P.E. | <input type="checkbox"/> _____ |
| 1st Vice President | <input type="checkbox"/> Michael Navabi, P.E. | <input type="checkbox"/> _____ |
| 2nd Vice President | <input type="checkbox"/> Carlos Vazquez, P.E. | <input type="checkbox"/> _____ |
| Treasurer | <input type="checkbox"/> Mark Seidelmann, P.E. | <input type="checkbox"/> _____ |
| Secretary | <input type="checkbox"/> Michael Smejkal, P.E. | <input type="checkbox"/> _____ |
| Member-at-Large | <input type="checkbox"/> Brooks Vogel, P.E. | <input type="checkbox"/> _____ |

OHIO COUNCIL OF LOCAL SECTION DELEGATES (Please vote for 6 or write-in)

| | |
|--|---|
| <input type="checkbox"/> Peter Narsavage, P.E. | <input type="checkbox"/> James Pajk, P.E. |
| <input type="checkbox"/> Gregory Barden, P.E. | <input type="checkbox"/> Bethany Meek, P.E. |
| <input type="checkbox"/> Carolyn Merry, PhD. | <input type="checkbox"/> _____ (write-in) |
| <input type="checkbox"/> Robert Redfield | |

NOMINATION FOR OUTSTANDING CIVIL ENGINEER OF CENTRAL OHIO

_____ (Please nominate an engineer.)

NOMINATION FOR OUTSTANDING ASCE CENTRAL OHIO SECTION MEMBER

_____ (Please nominate a section member.)

TWO WAYS TO VOTE. PLEASE VOTE BY APRIL 11, 2012.

- ASCE members who have paid their section dues should receive an email with a link for online voting. If you do not receive the email invitation, send a request to asce@centralohioasce.com and we will send you one.
- Send hard-copy ballot to: Julie Pickering, 1500 Lake Shore Drive, Ste 100, Columbus, OH 43204

2012 GREAT LAKES GEOTECHNICAL CONFERENCE

The 17th Annual Great Lakes Geotechnical/Geoenvironmental Conference will be hosted on the campus of Case Western Reserve University.

In recent years, our communities were confronted with energy and sustainability challenges. Geotechnical and geoenvironmental engineering provides important arsenals to address the challenges in the areas such as sustainable transportation and urban infrastructure systems, geohazards mitigation, development of renewable energy, geological carbon sequestration, and exploration of new energy sources (i.e. shale oil, shale gas), etc. This also presents opportunities to catalyze a new wave of innovations in the Geoengineering profession.

The 17th Annual GLGGC will provide a forum for presenting some of these advancements. The emphasis will be towards the theme of energy and sustainability, with emphasize on innovative geotechnical and geoenvironmental engineering solutions. The conference sessions will be organized in two major thrusts, each will include two technical sessions, running consecutively, with three or four speakers for each session. With the exception of the keynote speakers, presentations will be limited to approximately 15-20 minutes. A CEU of 0.8 will be certified to the conference participants.

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

O T E C 2 0 1 2 C A L L F O R A B S T R A C T S



The 2012 Ohio Transportation Engineering Conference (OTEC) will be held on October 30 - 31, 2012 in Columbus.

Call for Abstracts: Abstracts will be accepted for the 2012 conference: March 5 - April 6, 2012

Guidelines: Abstracts are to be 150 words or less and should include: abstract title, author name, affiliation, address, phone number and e-mail (no pictures). Abstracts are to be e-mailed to: lisa.hall@dot.state.oh.us

This year's Conference Theme: "Transportation – Revising the Blueprint". We are at the forefront of a revolution where the traditional transportation plan is obsolete. To be successful, the new transportation blueprint must include innovative funding solutions, enhanced delivery of products and services and a strategy for economic development. Welcome to OTEC 2012, welcome to the transportation revolution.

Watch for regular conference updates on the [WEBSITE](#). For questions contact Lisa Hall at (614) 644-0273

B R E A K F A S T W I T H R E P . L a T O U R E T T E

Date: Tuesday, 3/13/ 2012.
7:30 AM Registration
8:00 AM Breakfast,
8:30 AM Presentation & Q&A

Location: Crowne Plaza Hotel, 5300 Rockside Road, Independence, Ohio

The Legislative Breakfast Representative Steven C. LaTourette

14th Congressional District, US House of Representatives. Rep. LaTourette serves on the House sub-committee for: Transportation, Housing and Urban Development, and Related Agencies

Menu: "THE BUCKEYE BREAKFAST" - Scrambled Eggs, Bacon & Sausage Links served with Home Fried Potatoes



Cost: \$15 Members, \$20 Non-Members, \$10 Students

Make reservations early as space is limited. You must confirm reservations before March 8, 2012 to:

Linda Kimberly
Mentor City Engineering Office
(440) 974-5783

kimberly@cityofmentor.com

Cancellations: Please note that due to commitments that must be made to the restaurant, any cancellations after March 8, 2012 or no-shows will be billed for the cost of the meeting.

Presented by: The Cleveland Section, the Akron-Canton Section, the Central Ohio Section and the Ohio Council of Sections of the American Society of Civil Engineers.

A S C E S P R I N G S E M I N A R

SAVE THE DATE!

ASCE 2012 Spring Seminar

Use of Geographic Information Systems (GIS) for engineering applications

WHEN: Tuesday, 4/24/2012 - 9:00am

WHERE: Crowne Plaza Hotel Columbus North, 6500 Doubletree Avenue, Columbus, OH 43229

GIS is a powerful tool used across multiple disciplines to enhance engineering applications. In today's professional environment, GIS technology is necessary to analyze and display geographic information as it relates to transportation, public utilities and water resources.

- For transportation, GIS is used to analyze imagery to assist with critical planning, design and quality control.
- For public utilities, GIS is used to help prioritize water main replacements and rehabilitation by organizing, relating and mapping several years of maintenance and work order information.
- For water resources GIS is a powerful tool for the determination of many parameters used to create hydrologic and hydraulic models.

S H E E T P I L I N G D E S I G N S E M I N A R

WHEN: Wed, 03/21/2012 - 8:00am

WHERE: Ohio Contractors Association, 1313 Dublin Road, Columbus, OH 43215

PRESENTER: Richard Hartman, Ph.D., P.E., Hartman Engineering

The Design and Construction of Steel Sheet Piling Structures Seminar is a one day class covering topics ranging from design concepts, to practical field problems, through recent product advancements in the design and manufacturing of steel sheet piling.

The seminar will be presented by Richard Hartman, Ph.D., P.E., a leading international expert in the design and construction of steel sheet pile structures. Dr. Hartman is licensed as a professional engineer in 38 states and has over 40 years of experience in the subject. For the past 15 years he has been involved in the research and design of new sheet pile sections and, based on that research, holds four patents for sheet piling sections.

Seminar Content :

- Design parameters, layout, and construction considerations for cellular cofferdams
- Design and construction considerations for bulkheads, open cell designs and combination walls
- Design and construction considerations for cofferdams and trenches
- Properties of steel sheet piling, changes in steel pile manufacturing, concerns regarding performance, transverse loads, stresses in sheet piling, and redesign of sheet piling sections
- Review of design software for steel sheet piling structures
- Questions, answers and conclusions

For more information and to register for the seminar, see the informational flyer located [HERE](#).

A S C E G U I D E L I N E S F O R U R B A N D R A I N A G E

The ASCE Urban Drainage Standards Committee is in process of issuing three new standard guidelines for Design of Urban Subsurface Drainage, Installation of Urban Subsurface Drainage, and Operation and Maintenance of Urban Subsurface Drainage. A public comment period will be conducted from April 1, 2012, through May 16, 2012.

The intent of the guidelines is to provide guidance for urban subsurface drainage, and updates ASCE/EWRI 12-05, ASCE/EWRI 13-05, and ASCE/EWRI 14-05 with new material developed within the past five years. The collection and conveyance of subsurface drainage waters for applications such as airports, roads, and other

transportation systems, as well as industrial, commercial, residential, and recreational areas are covered. Guidelines are not provided for agricultural drainage, landfills, recharge systems, detention ponds, conventional storm sewer design, or the use of injection systems.

To participate in the public comment period, contact Lee Kusek, ASCE Codes & Standards Administrator at lkusek@asce.org or 703-295-6176. For more information on this standard or ASCE's standards program, contact Jim Jennings at jjennings@asce.org or 703-295-6406.

A W A R D N O M I N A T I O N S

In preparation for the upcoming awards season, we are seeking nominations for the categories described below.

OUTSTANDING CENTRAL OHIO SECTION MEMBER

Presented by the Central Ohio Section, this award is presented annually to an outstanding member of the Central Ohio Section. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Member of Central Ohio Section in good standing.
2. Has made a significant contribution to the Section through participation in the activities of the Section.
3. Promotes a good image of the Section and its members through their participation and example.



OUTSTANDING CIVIL ENGINEER OF CENTRAL OHIO

Presented by the Central Ohio Section, this award is presented annually to an outstanding civil engineer who doesn't have to be an ASCE member. For a list of past winners, click [HERE](#). To nominate an individual, please contact any board member or email asce@centralohioasce.com. A list of nominees will be included in the award ballot in March.

General Requirements:

1. Practices or teaches civil engineering in Central Ohio.
2. Must have made a significant contribution to civil engineering profession during the last year.
3. One who exemplifies the public image and perception of the civil engineer and its profession.

OHIO OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT AWARD

Presented by the Ohio Council of ASCE Sections, this 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. The award is part of the [ASCE National OCEA Program](#).

Selection is based on how the project demonstrates the application of civil engineering skills and its contribution to civil engineering progress and mankind. The project's potential adverse effects will be considered. Entries should look frankly at the project's problems, technical and otherwise. 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, and
5. Impact on the physical environment, unusual aspects, and aesthetic values.

Additional eligibility requirements, submittal guidelines, and deadlines may be found soon on the Ohio Section website at <http://www.ohioasce.org/OCEA>. Deadline for nominations is 5:00 PM, Friday, March 16, 2012.

BEST JOBS OF 2012 - CIVIL ENGINEER

Taking the #26 spot, U.S. News and World Reports has named Civil engineering as one of the Best Jobs of 2012 based on projected employment growth and other factors. The Bureau of Labor Statistics forecasts that employment for civil engi-



neers will increase 19.4% between 2010 and 2020. A civil engineer can "actually see [things] being built. ... It's very rewarding to see the results of what you saw on paper. It gives you a lot of personal satisfaction," said Andrew Herrmann, president of the ASCE. For additional information and the complete list, please visit [HERE](#).

2011 - 2012 CENTRAL OHIO ASCE MEETINGS

| Meeting Date | Topic | Location | Coordinator |
|-----------------------------------|--------------------------------------|-----------------------|-------------------------|
| Tuesday, March 27, 2012 Lunch | Dodridge Street Bridge | OSU Fawcett Center | Scott Roe (FCEO) |
| Thursday, April 19, 2012 Lunch | T.B.D. | OSU | Dr. Carolyn Merry (OSU) |
| Thursday, May 17, 2012 Lunch | ASCE President Elect | OSU Faculty Club | Bob Redfield (ASCE) |
| June, 2012 | Planning Meeting | T.B.D. | Michael Navabi (ASCE) |
| Friday, June 22, 2012 | Annual Golf Outing & Motorcycle Tour | Darby Creek Golf Club | Jim Pajk (ASCE) |

ASCE CONTINUING EDUCATION

ASCE Geographic Services is pleased to provide Continuing Education seminars and workshops. These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department.

| | | |
|-------------------|-------------|---|
| March 7-9, 2012 | Chicago | HEC-RAS Computer Workshop for Unsteady Flow Applications |
| March 29-30, 2012 | Minneapolis | Introduction to Dam and Levee Safety, Evaluation and Rehabilitation |
| April 26-27, 2012 | Cincinnati | HEC-HMS Computer Workshop |
| May 10-11, 2012 | Madison, WI | Structural Condition Assessment of Existing Structures |
| June 7-8, 2012 | Milwaukee | Earth Retaining Structures Selection, Design, Construction and Inspection: Now in an LRFD Design Platform |
| June 14-15, 2012 | Cincinnati | Financial Management for the Professional Engineer |
| June 14-15, 2012 | Chicago | Structural Design of Industrial Facilities ~ <i>Newly Updated</i> |
| June 21-22, 2012 | Chicago | Wind Loads for Buildings and Other Structures- <i>Newly Updated</i> |
| July 11-13, 2012 | Chicago | HEC-RAS Computer Workshop |
| July 26-27, 2012 | Minneapolis | Seismic Design of Highway Bridges |
| August 9-10, 2012 | Chicago | Managing the Design Process - Keeping on Schedule, within Budget, and Selecting the Right Resources |
| Sept. 12-14, 2012 | St. Louis | Structural Vibration Analysis, Design and Troubleshooting |
| Sept. 19-21, 2012 | St. Louis | Structural Design of Buildings and Industrial Facilities for Bomb Blasts and Accidental Chemical Explosions |
| Sept. 20-21, 2012 | Minneapolis | Low Impact Development Applications for Water Resource Management |
| Sept. 27-28, 2012 | Chicago | Storm Water Treatment using Detention Ponds and Commercial Devices ~ <i>New</i> |

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 April 5, 2012.
 4960 Vulcan Avenue
 Columbus, Ohio 43228*

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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