

# ASCE Newsletter

## Central Ohio Section

February, 2011  
Volume 15, Issue 6

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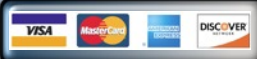
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## FEBRUARY LUNCH MEETING



**ASHE, APWA, ASCE, Engineers Club, IEEE,  
ITE, OSPE, WTS and SME Present:**

### Engineers Week Luncheon

**Thursday, February 24th**

The Bridgewater Conference Center  
10561 Sawmill Parkway  
Powell, Ohio 43065  
11:30 AM Registration  
12:00 Noon Luncheon



**Keynote Speaker:  
Terry Foegler**

Associate Vice President,  
Physical Planning  
and Real Estate  
The Ohio State University



*Come hear Mr. Foegler highlight new approaches to the planning and development of the Ohio State University.*

Lunch choices include:

- 1) Slow Roasted Chicken Breast
- 2) Roasted Pork Loin

Vegetarian available upon request

Please indicate your meal selection upon registration.

**Cost:** \$25 Pre-Registered/Pre-Paid  
Students FREE - Bring Your Resume  
\$35 at the door (depending on availability,  
walk-ins may not be accepted)

Register by **Wednesday, February 16th** online at [www.ohioite.org](http://www.ohioite.org)  
or by contacting Paul Denny at Barr & Prevost  
(PDenny@barreng.com: 614-714-0270). Please pay in advance via  
credit card online at [www.ohioite.org](http://www.ohioite.org) or by sending a check (payable  
to "Ohio Section ITE") to Paul Denny at Barr & Prevost, 2800 Corpora-  
rate Exchange Drive, Suite 240, Columbus, OH, 43231.



**ENGINEERS  
WEEK® 2011**  
FEBRUARY 20-26

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## LETTER FROM THE PRESIDENT

We had a great turnout at our January luncheon meeting...thanks to everyone who attended! Our next luncheon is the annual Engineer's Week Luncheon which will be held on February 24<sup>th</sup> at the Bridgewater Conference Center. Our speaker this year is Terry Foegler, Associate Vice President of the Department of Physical Planning and Real Estate at The Ohio State University. He will be highlighting new approaches to the planning and development of OSU. As always, the luncheon will be a joint meeting with many other local engineering

organizations. For more details, please see page 1 of this newsletter. Hope to see you all there!

Have a wonderful February!

Thank you,

Julie L. Pickering, PE, M.ASCE

[Julie.Pickering@Stantec.com](mailto:Julie.Pickering@Stantec.com)

## INSTITUTE OF SUSTAINABLE INFRASTRUCTURE



The Institute for Sustainable Infrastructure (ISI), jointly founded by the American Council of Engineering Companies (ACEC), the American Public Works Association (APWA), and the American Society of Civil Engineers (ASCE), will hold its first board meeting February 8-9, 2011. The ISI is a new, independent non-profit organization tasked with developing and administering a sustainability rating system for infrastructure in North America. It will provide agencies with a uniform and comprehensive measuring tool to evaluate the sustainability of infrastructure projects.

The ISI rating system is designed to identify the benefits of sustainable practices for owners, regulators, and practitioners. Based on the "triple bottom line" - including considerations for environmental, economic, and social impacts - the system strives to improve a project's performance while also accounting for the short and long term value of the project.

The voluntary, web-based rating system will be formally launched in summer of 2011, and will apply to a wide range of infrastructure projects from water, wastewater, energy, roads, and bridges. The rating system will be adaptable to projects of any complexity or size, equally applicable for very large state and federal projects and for smaller, local projects. It will be adaptable for each project's specific needs and circumstances, and offer performance-based outcomes rather than being prescriptive. The two major approaches of the rating system will be the *Pathway Contribution*, or "doing the right thing" with the community as the common denominator, and the *Performance Contribution*, or "doing things right" or engineering high-performing projects.

Membership into ISI will be open to individuals, organizations, and agencies and will ultimately develop certification and continuing education programs for rating system users. The system will also include a third-party certification and an option for self-assessment.

**COWBOYS STADIUM - SUPER BOWL XLV FACTS**

Host to Super Bowl XLV, the new Cowboys Stadium in Arlington, Texas is an engineering spectacle. Occupying nearly 3-million square feet and seating 100,000 fans, it cost nearly \$1.3 billion to build.

- The stadium is the largest column-free room in the world, stretching over a quarter mile in length
- The partially retractable roof is high enough for the Statue of Liberty to stand inside.
- The 660,800 SF retractable roof, consisting of two 600 ton panels, can be opened or closed in 9 minutes.
- The motors used to operate the roof use 960 total horsepower
- When closed, the roof encompasses over 104 million cubic feet of volume
- The roof is supported by two arches that weigh 3,255 tons each and rise 292 feet above the field.
- Each arch is 17 feet wide by 35 feet deep, and constructed with high-strength grade 65 steel imported from Luxembourg.
- Each arch spans over twice as long as the Gateway Arch in St. Louis and contain 50,000 bolts.
- The foundation for each arch is 176 feet long, 71 feet deep and 18 feet wide. The walls were made of a 30 inch slurry wall and enclosed a total volume of about 3,400 cu-yd of concrete.
- The retractable glass end-zone doors are 120 feet high by 180 feet wide.
- The worlds largest high definition LED video display hangs 90 feet above the field. At 72 feet high by 160 feet long, it is the equivalent of nearly 5000 52-inch televisions.
- An 86-foot high glass curtain wall circles the building sloping outward at 14 degrees
- Over 2,900 TV screens are scattered throughout the stadium, and there are over 800 vending locations
- Parts of the structure are built with wide flange sizes up to W14x730 – the heaviest rolled shape in the world
- The playing field is about 54 feet below grade and about 25 feet below the water table, supported by a permanent soil nail wall
- The excavation for the stadium involved the removal of 1.4 million cubic yards of soil
- 90% of construction waste was recycled



**ASCE CONTINUING EDUCATION WORKSHOPS**

ASCE is pleased to provide the upcoming ASCE Continuing Education seminars and workshops in the Midwest Region. These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department and may be of interest to you. Please click on the links below for additional information.

<b>DATES</b>	<b>SEMINARS AND COMPUTER WORKSHOP LINKS</b>	<b>Location</b>
Feb. 17-18, 2011	<a href="#">Design of Lateral Force Resisting Systems in 2009 International Building Code</a>	Cincinnati, OH
Feb. 24-25, 2011	<a href="#">Upgrading Treatment Plants and Pumping Stations</a>	Chicago, IL
March 10-11, 2011	<a href="#">Earth Retaining Structures, Design, Construction and Inspection: Now in LRFD</a>	Cincinnati, OH
March 10-11, 2011	<a href="#">HEC-HMS Computer Workshop</a>	Chicago, IL
March 16-18, 2011	<a href="#">Design of Foundations for Dynamic Loads</a>	Cincinnati, OH
March 17-18, 2011	<a href="#">Design of Cold Formed Steel Structures The New 2007 Specification</a>	Chicago, IL
March 23-25, 2011	<a href="#">Design and Construction of Microtunneling Projects</a>	Chicago, IL
March 24-25, 2011	<a href="#">Low Impact Development Applications for Water Resource Management</a>	Madison, WI
March 24-25, 2011	<a href="#">Modern Detectors for Traffic Surveillance Management/Traveler Information</a>	Chicago, IL

**2010 - 2011 CENTRAL OHIO ASCE MEETINGS**

Meeting Date	Topic	Location	Person Responsible
Thursday, February, 2011 TBA	Engineers Week	TBA	E-Week Organizer
Thursday, March 17, 2011 Lunch	West Main Street Bridge - Westerville	Villa Milano	Michael Bashor/ Jim Pajk
Tuesday, April 19, 2011 Lunch	Technical Seminar - Low Impact Development and LEED	Crowne Plaza Columbus North	Michael Navabi
Thursday, April 21, 2011 Dinner	US-33 Nelsonville By-Pass Project	Ohio University - TBA	Bob Heady
Thursday, May 12, 2011 Lunch	ASCE National President-Elect and Awards Luncheon	The Blackwell Inn at OSU	Mike Mazzoli
June, 2011	Planning Meeting	TBA	Adam Rich
Friday, June 24, 2011	Annual Golf Outing	Darby Creek Golf Course	Jim Pajk

**BOWLING EVENT**

On Sunday, February 27th, join the Younger Member Group for an afternoon at the bowling lanes. It will be an opportunity to meet new people, eat, socialize and knock down some pins. You are welcome to bring your family or a guest. Please RSVP to Stephanie Phillips at [PhillipsS@pbworld.com](mailto:PhillipsS@pbworld.com) by February 23.



When: Sunday, February 2, 1:00-4:00pm.

Where: Thompson's Capri Lanes, 5860 Roche Dr., Columbus, OH 43229. (<http://www.capribowling.com/>)

Registration: \$10/person includes 3 games, shoes, pizza, salad, and soda.

**KEEP UP TO DATE**

**Join Our E-Mail List!**  
Keep up to date with all the current events and announcements. Just go to <http://centralohioasce.com/e-mail> and follow the directions to sign up.

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[www.centralohioasce.com](http://www.centralohioasce.com)

**E-Mail Us:**  
[asce@centralohioasce.com](mailto:asce@centralohioasce.com)

**BOARD MEETING**

*Our Next Board Meeting Will Be Held at 11:30 A.M. Thursday, March 3, 2011. Stantec Consulting Services 1500 Lake Shore Drive Columbus, OH*

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*Thank You*

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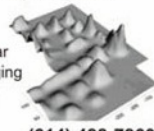
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