President's Letter

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February, 2011
Volume 15, Issue 6

FEKAURY 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

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
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 or by sending a check (payable to "Ohio Section ITE") to Paul Denny at Barr & Prevost, 2800 Corporate Exchange Drive, Suite 240, Columbus, OH, 43231.

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ASCE Central Ohio Section - Newsletter
February 2011 Page 1
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 24th 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

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.
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 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.

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<td>March 24-25, 11</td>
<td>Modern Detectors for Traffic Surveillance Management/Traveler Information</td>
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### 2010-2011 Central Ohio ASCE Meetings

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<td>Thursday, February, 2011 TBA</td>
<td>Engineers Week</td>
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<td>Thursday, March 17, 2011 Lunch</td>
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<td>Tuesday, April 19, 2011 Lunch</td>
<td>Technical Seminar - Low Impact Development and LEED</td>
<td>Crowne Plaza Columbus North</td>
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<td>Thursday, April 21, 2011 Dinner</td>
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<td>Ohio University - TBA</td>
<td>Bob Heady</td>
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<td>Thursday, May 12, 2011 Lunch</td>
<td>ASCE National President-Elect and Awards Luncheon</td>
<td>The Blackwell Inn at OSU</td>
<td>Mike Mazzoli</td>
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<td>June, 2011</td>
<td>Planning Meeting</td>
<td>TBA</td>
<td>Adam Rich</td>
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<tr>
<td>Friday, June 24, 2011</td>
<td>Annual Golf Outing</td>
<td>Darby Creek Golf Course</td>
<td>Jim Pajk</td>
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### 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 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](http://centralohioasce.com/e-mail) and follow the directions to sign up.

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

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### Board Meeting

Stantec Consulting Services
1500 Lake Shore Drive
Columbus, OH