

# ASCE Newsletter

## Central Ohio Section

September, 2012  
Volume 17, Issue 1

### CONTENT

President's Letter 2

Latest News 2-6

Calendar of Events 7

Newsletter Ads 7-8

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### SEPTEMBER DINNER

**DATE:** Thurs. Sept. 20, 2012 - 5:30 P.M. Registration - 6:30 P.M. Dinner - 7:30 P.M. Presentation  
A joint meeting with OSPE and ACI

**LOCATION:** LaScala Restaurant, 4199 West Dublin Granville Road, Dublin OH 43017

**SPEAKER:** Bill Feltz, PE - Anderson Concrete, Vice President of Production  
Nigel Carter - Turner Construction

**TOPIC:** **Heavyweight Concrete Radiation Shielding at the New OSU Hospital**



The presentation will cover the construction of the Radiation Oncology Vaults at the New OSU Wexner Medical Center James Cancer Hospital currently under construction. The radiation vaults are located between the 2nd and 4th floor of the hospital at a height of about 45 to 65 feet above the ground level and are the largest suspended vaults ever constructed in the United States.

Bill Feltz of Anderson Concrete will give a presentation on the production of the heavyweight concrete used for the cast-in-place portion of the radiation shielding vaults. The heavyweight concrete had a unit weight of 260 pcf and needed to be pumped into place.

Nigel Carter of Turner Construction will give a presentation on the construction of the radiation vaults. Particular attention will be given to the challenges presented by the decision to locate the vaults on Level Two of the Hospital and the constructability issues associated with this design decision.

**MENU:** Italian Buffet

**CPD:** A certificate for one (1) Continuing Professional Development (CPD) hour will be issued.

**COST:** \$25 ASCE/ACI Members & Guests, \$10 Students

**REGISTER:** **Registration is due by 5:00 PM on Monday, Sept. 17, 2012.** Late registrations and walk-ins may not be accepted. Registration fees may still be required for no-shows and registrants canceling after the deadline. To register contact Michael Navabi by telephone at (614) 839-0250, or via email at [register@centralohioasce.com](mailto:register@centralohioasce.com).

**PAYMENT:** The preferred method of payment is online (click [HERE](#)) before the registration deadline. Payment may also be made on the day of the event by cash or check. Checks should be made payable to Central Ohio ASCE.

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## LETTER FROM THE PRESIDENT

ASCE Central Ohio Section:

Welcome back to a new year of Central Ohio Section meetings and events. I would like to thank Jim Pajk and the Section Younger Members for organizing and executing another great golf outing this past June.

If you did not make our May luncheon, I wanted to recognize our award winners for 2012-2013. Amanda Engle, P.E. was awarded the "Central Ohio Outstanding Civil Engineer" award and Emily Wieringa, P.E. was awarded the "Outstanding Section Member of Central Ohio Section". The section also recognized 11 life member awards at the luncheon.

The Ohio Council of Sections is continuing their efforts to publish an updated Ohio Infrastructure report card. If you would be interested in helping with this effort, please contact Kevin Carpenter. His contact information can be found here: <http://www.asce.org/Regions-Sections/Branches/Region-3/Leadership/Leadership/>

Congratulations to Randy Over of the Cleveland Section for being elected to the office of President-Elect for ASCE National.

If you are a younger member and interested in getting more involved with the section, the Younger Members group is hosting an array of activities this year. Find out more by enrolling in the Younger Member email list here: <http://www.centralohioasce.com/e-mail>

I look forward to another great year for the Section.

Regards,

Adam Rich

President - ASCE Central Ohio Section

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

## 6TH SEMI-ANNUAL OHIO UNIVERSITY GOLF OUTING

The Ohio University chapter of the ASCE would like to invite you to a student, faculty, and alumni 4-man golf scramble. ASCE is using this fundraiser as an event to help finance our chapter's many projects, competitions, and other activities. Prizes will be awarded to winners complimentary of our sponsors and this event will be followed by the ASCE Fall Social that night. Please join in for food, fun, drinks and plenty of good times.

Teams should consist of 4 people, however if three participants are unable to obtain a fourth, a

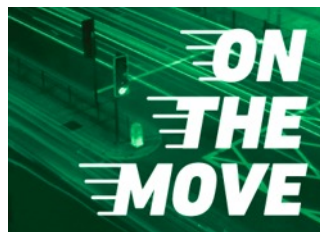


student shall be paired with you. There shall be one scorecard per a team, and teams will be created on a fair handicap. If you would like to participate please fill out the attached form and mail it back with your check, made out to "Ohio University ASCE", attached. It will be \$80 for Alumni and Faculty and \$50 for students. This fee includes a cart for 18 holes, snacks, beverages, dinner and a social hosted by Broney's Alumni Grill. **Registration and participation fees must be in by Friday, September 4<sup>th</sup>.**

Contact: Joseph Cook, Junior Class Representative, [jc349108@ohio.edu](mailto:jc349108@ohio.edu), (740) 408-6450

## MEMBERS ON THE MOVE

We announce the following members on the move in their professional careers:



Peter Narsavage, P.E. has taken a position with E.L. Robinson Engineering.

Emily Wieringa, P.E. has taken a position as Construction Manager with the Columbus Zoo.

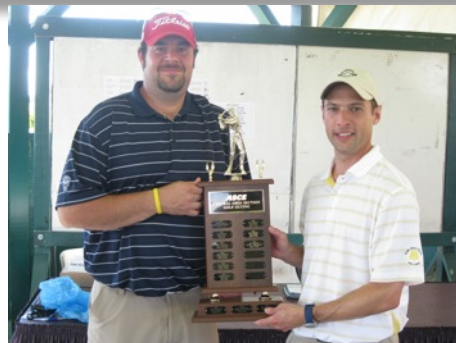
Mike Skejkal, P.E. has taken a position as Director of Engineering with the Tucson Arizona Airport Authority.

To share your "On The Move" moment, please send info to [Newsletter@centralohioasce.com](mailto:Newsletter@centralohioasce.com)



## GOLF OUTING A HIT!

With excellent weather and a course in great shape in spite of the lack of rain this summer, 77 golfers participated in the 16<sup>th</sup> annual Central Ohio Section Golf Outing. The outing raised almost \$2,900 to support the Younger Member Group and the ASCE Central Ohio Section Civil Engineering Career Day. The golfers were joined by six motorcycle riders at Darby Creek Golf Course for dinner after an afternoon ride through Union and Logan Counties. Patrick Herl and Zack Freshner posted the winning low score with Mike Ciotola and John Dippolito coming in second.



Prize hole winners included:

**Closest to the pin:** Chris Clevenger, #7, Mike Smejkal #11 and John Dippolito #16

**Closest to the pin, 2<sup>nd</sup> shot:** Steve Slusher #8, Steve Koch #10 and Rich Weigand #15

**Longest Drive:** John Dippolito #12 and Zach Freshner #17

**Longest Putt:** Chris Clevenger #9, Dave Strittmatter #13, Tom Roch #14 and Jay Muether #18

**Winning Poker Hand (Holes 1 through 5):** Gary Zych and Brett Dreger

Many other prizes were given away for selected placings.

As always, one of the main highlights is the lunch and dinner that is prepared by the Younger Member Group, who benefits from the outing proceeds. Lunch included hamburgers, hot dogs and snacks and dinner included steaks, chicken, sides and the always popular and required pie selection. A big thanks to the following and their company for allowing them to take time off to volunteer for this event: Matt Marquis - S&ME, Eric Biehl - ODOT, Stephanie Phillips - Parsons Brinkerhoff, Michael Romanello - S&ME.



(ABOVE) Golfers and motorcyclists enjoying dinner.



(LEFT) L-R, Michael Romanello, Eric Biehl, Matt Marquis, Stephanie Phillips.

Another thank you goes out to the 30 sponsors of this outing who make this outing special and allow net proceeds to benefit the Younger Member Group, Civil Engineering Career Day and other important section programs. The outing has raised close to \$28,000 in its history. We would like to thank the following sponsors in particular for extra support by sponsoring lunch, dinner, or the beverage cart:

**Barr Prevost**

**Jones-Stuckey**

**TranSystems**

**Team Fishel**

**WD Transportation**

**ADS**

Another special thanks to **Geotechnical Consultants, Inc.** who is the only firm to have sponsored all 16 outings!!

Companies that have sponsored at least 10 years - Gannett Fleming, E.P. Ferris and Associates, Spence Environmental, S&ME, DLZ, URS, Ohio Wetlands Foundation, Jones-Stuckey, EL Robinson, Anderson Concrete, Ohio Ready Mix Concrete Association, RW Armstrong, The Ohio State University, Stantec, Kleingers, CTL Engineering, PSI

And the rest of our important sponsors - Mean and Hunt, Strand Associates, Inc., Prime Engineering, Crawford, Murphy and Tilly, CT Consultants, Korda, HDR, Bob Redfield

If you have any questions, comments or suggestions to improve the outing, would like to include your firm as a possible sponsor for next year or you are a younger member that would like to help out with the outing, please contact Jim Pajk at 614-525-3021 or [jpajk@franklincountyengineer.org](mailto:jpajk@franklincountyengineer.org)

## L I C H T E N S T E I N   D I S T I N G U I S H E D   L E C T U R E

When: Friday, September 14, 2012

Where: Smith Seminar Room

Physics Research Building

The Ohio State University

191 W. Woodruff Ave

Who: William F. Baker,

Partner in Charge of Structural Engineering

Skidmore, Owings & Merrill, LLP

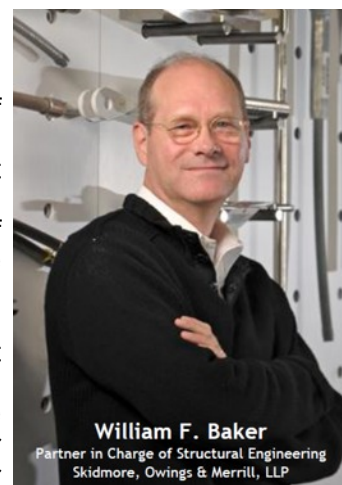
### THEORY IS PRACTICAL: The Philosophy of Design

The founders of modern structural engineering created structures that were inspiring in their form and economical in their execution. While this economy was undoubtedly driven by financial pressures, it was also a result of the ideological purity of the design. Best exemplified by structures such as Brunel's Royal Albert Bridge or Paddington train shed, this structural clarity demonstrates high design skill, as complicated structural designs were simply beyond an engineer's ability to calculate. However, within the past few years, the explosion of computational power has enabled engineers to design and create structures that are extremely complex and beyond one's ability to comprehend without the aid of a computer (some are conceptually unfathomable even with a computer). Our modern analytical tools can yield a more efficient structure than one achievable through simpler means, but these same tools can also enable the creation of overly complicated structures that are financially and materially expensive. From designing bridges to designing

buildings that are bridges, Bill Baker will propose a design philosophy to "bridge" the divide between design and analysis.

Throughout his distinguished career, Bill has dedicated himself to structural innovation. His best known contribution is development of the buttressed core structural system for the Burj Khalifa, the world's tallest man-made structure.

While widely regarded for his work on super tall buildings, his expertise also extends to long-span roof structures, such as the Korean Air Lines Operations Hangar and the Virginia Beach Convention Center, as well as specialty structures like Broadgate-Exchange House and the GM Renaissance Center-North Lobby. He received the CTBUH Fazlur Rahman Khan Medal in 2008, the Fritz Leonhardt Preis award in Germany in 2009, the Gold Medal from the U.K. Institution of Structural Engineers in 2010, and the ASCE Outstanding Projects and Leaders (OPAL) Lifetime Award for Design in 2011. He was elected to the National Academy of Engineering in 2011.



## 2 0 1 2   M I D W E S T   G E O T E C H N I C A L   C O N F E R E N C E

Columbus will host the 2012 Midwest Geotechnical Conference at the Crowne Plaza Columbus Downtown from September 25-27.



The Conference seeks to bring together State and Federal DOT geotechnical professionals from the north central region of the United States along with geotechnical professionals from the private sector and academia to promote technical interaction and professional development. This year's conference will be a forum for the exchange of information on state-of-the-practice issues within geotechnical engineering, geology, and geophysics for those involved with highway transportation design and construction. In this manner, the Conference seeks to:

- Facilitate sharing of experiences and best practices
- Promote use of new and innovative technology
- Encourage interaction and exchange of technical information
- Share mutual challenges and seek common solutions

The member State and Federal DOT organizations include: Iowa; Illinois; Indiana; Kansas; Michigan; Minnesota; Missouri; Nebraska; Ohio; Wisconsin; and the FHWA Resource Center.

For further information about the conference, please click [HERE](#)



## 2012 MOTORCYCLE RALLY

As part of the June 24 golf outing, ASCE offered a motorcycle tour for non-golfers. The group rode on a tour of rural hills and valleys of Union, Logan and Champaign Counties. The cyclists joined the golfers for dinner at the Darby Creek Golf Club after the golf outing. A good time was had by all, and all are looking forward to next years ride!



*Pictured, L to R, Alex Cofield, Chris Hall, Beth Meek, Dave Pritchard, Craig Snively, Brad Jones*

## 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.

| Seminar/Workshop  | Date                   | City / State    |
|---|------------------------|-----------------|
| Dam Breach Analysis Using the Hydrologic Engineering Center's River Analysis System HEC-RAS                 | October 24 - 26, 2012  | Chicago, IL     |
| Design of Cold Formed Steel Structures  | November 1 - 2, 2012   | Chicago, IL     |
| Structural Design of Buildings and Industrial Facilities for Blast Loads and Accidental Chemical Explosions | November 14 - 16, 2012 | Cleveland, OH   |
| Seismic Hazard Evaluation and Mitigation Using Simple Methods <b>-NEW</b>                                   | December 6 - 7, 2012   | Chicago, IL     |
| Financial Management for the Professional Engineer  | January 17 - 18, 2013  | Minneapolis, MN |
| Risk- Based Seismic Design and Evaluation   | January 17 - 18, 2013  | Chicago, IL     |
| Introduction to Dam and Levee Safety, Evaluation and Rehabilitation   | February 7 - 8, 2013   | Chicago, IL     |
| Seismic Loads for Buildings and Other Structures  | February 7 - 8, 2013   | New Orleans, LA |
| Wetlands and 404 Permitting   | February 7 - 8, 2013   | New Orleans, LA |
| Leadership Development for the Engineer   | March 7 - 8, 2013      | Chicago, IL     |
| Stormwater BMPs That Work: Effective Analysis, Design and Maintenance                                       | March 7 - 8, 2013      | Chicago, IL     |
| Aluminum Structural Design with the 2010 Aluminum Design Manual   | March 21 - 22, 2013    | Chicago, IL     |
| How to Start, Build and Run a Forensic Engineering Practice   | March 21 - 22, 2013    | Chicago, IL     |
| Wind Loads for Buildings and Other Structures   | March 21 - 22, 2013    | Cincinnati, OH  |

## 2012 - 2013 CENTRAL OHIO ASCE MEETINGS

| Meeting Date                             | Topic   | Group(s)                        | Location                     | Coordinator   |
|--|---|---------------------------------|------------------------------|---|
| Thursday<br>September 20, 2012<br>Dinner | Heavyweight Concrete for Radiation Shielding at the New OSU Hospital            | ASCE / ACI                      | LaScala Restaurant, Dublin   | Nick Scaglione  |
| Thursday<br>October 25, 2012<br>Lunch    | 5th Avenue Dam Removal and Lower Olentangy River Ecosystem Restoration Project  | ASCE / Columbus Engineers' Club | Crowne Plaza North, Columbus | Travis White  |
| Thursday<br>November 15, 2012<br>Lunch   | Pedestrian Glu-Lam Arch Bridge Presentation                                     | ASCE / SEAO                     | Villa Milano, Westerville    | William Zacharias                                     |
| Thursday<br>December 20, 2012<br>Lunch   | Columbus Solids Treatment Utilization Master Plan                               | ASCE / City of Columbus         | Crowne Plaza North, Columbus | Greg Barden   |
| Thursday<br>January 17, 2013<br>Lunch    | Columbus Airport Updates  | ASCE Younger Members            | Crowne Plaza North, Columbus | Stephanie Phillips                                    |
| T.B.D.<br>February 18, 2013<br>Lunch     | Engineers' Week   | All                             | TBD                          | Engineering Week Committee                            |
| Thursday<br>March 14, 2013<br>Lunch      | Sustainability utilizing GIS  | ASCE                            | TBD                          | Mark Siedelmann and David Alvarez                     |
| Thursday<br>April 24-25, 2013<br>Lunch   | OSU/OU Student Chapter & President Elect  | OSU / OU / ASCE                 | TBD                          | Bob Redfield / Dr. Carolyn Merry                      |
| Thursday<br>March 28, 2013<br>Lunch      | ASCE Annual Seminar: "Design and Construction of Steel Sheet Piling Structures" | ASCE                            | WD Partners, Dublin          | Carlos Vazquez (ASCE)                                 |
| Thursday<br>May 16, 2013<br>Lunch        | Engineers Without Borders (EWB) / Awards  | ASCE                            | TBD                          | Coordinator: Dave Pritchard - Awards: Kevin Carpenter |
| T.B.D.<br>June, 2013<br>Dinner           | 2013-2014 Planning Meeting  | ASCE                            | Tommy's Pizza, Dublin, Ohio  | Mark Siedelmann (ASCE)                                |
| Friday<br>June 21, 2013<br>Lunch/Dinner  | Annual Golf Outing  | ASCE                            | Derby Creek Golf Club        | Jim Pajk (ASCE)                                       |

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

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

## BOARD MEETING

Our Next Board Meeting  
Will Be September 27, 2012.  
11:30 A.M.  
Location: EDG, Inc.



## 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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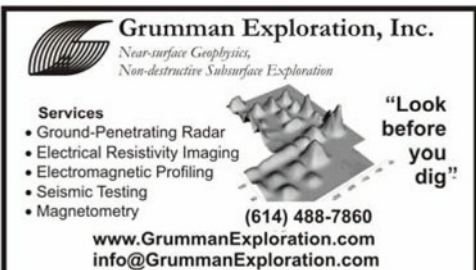
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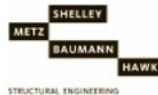


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