

ASCE Newsletter

Central Ohio Section

January, 2012
Volume 16, Issue 5

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JANUARY DINNER MEETING

Date/Time: Thursday, January 12, 2012 - 5:30 P.M. - Registration - 6:00 P.M. - Dinner

Location: Winking Lizard Tavern – 1380 Bethel Road Road - Columbus, OH 43220

Speaker: Bill Lantz, P.E. - Senior Project Manager, Shelley, Metz, Baumann Hawk, Inc.

Topic: **Caisson Failure Case Study**

Bill will present his expert witness testimony in a case involving a caisson failure resulting in approximately six inches of settlement and significant damage to the building. The presentation will cover the many problems contributing to the failure and the “red flags” that were not addressed by the parties involved, including the structural engineer, the geotechnical engineer and the inspection agency. The presentation will close with an interactive discussion on how lessons learned can be applied and preventative measures taken to protect your own projects. SEAO and ASCE are pleased to invite you to join us for this valuable seminar.

Time: 5:30 P.M. - Registration begins
6:00 P.M. - Dinner Buffet Begins
6:30 P.M. - Program Begins

CPD Hours: A certificate for one (1) Continuing Professional Development (CPD) hour will be issued at the conclusion of the program.

RSVP: **Registration is due by 5:00 PM on Monday, January 9, 2012.** Late registrations and walk-ins may not be accepted. Registration fees may still be required for no-shows and registrants canceling after January 9, 2012. To register contact Adam Rich by telephone at (614) 918-2476, or via email at register@centralohioasce.com.

Cost: \$20 ASCE/SEAO Members & Guests - \$10 Students

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LETTER FROM THE PRESIDENT

I hope that everyone had an outstanding holiday season and are now ready as I am looking forward to the exciting upcoming ASCE events over the next six months, including dinner meetings for the months of January and April, lunch meetings for February, March and May and concluding with the June golf outing.

I wanted to thank Dane Redinger, P.E., President of the Central Ohio ACI section, for his group's effort planning the December dinner meeting that was held at the Arlington Café. The presentation discussed the replacement of the I-71 Jeremiah Morrow Bridge project that is being built by Kokosing Construction and designed by HNTB Cleveland. Both Ryan Cocco of Kokosing Construction and Murat Aydemir, P.E., S.E. of HNTB did an excellent job explaining the design and current construction sequence and gave us an in depth view of the scale and complexity of this massive project in Southern Ohio.

Be sure to attend our next event on January 12, 2012 which will be discussing a caisson failure case study. The presentation will be given by Mr. Bill Lantz, P.E. of Shelly Metz Baumann Hawk, Inc. which will discuss the failure of the caisson foundation system that caused approximately 6 inches of settlement and significant building damage. The presentation will conclude with a question and answer session that will hopefully help prevent these problems occurring on future projects. A certificate for one Continuing Professional Development (CPD) will be issued at the conclusion of the program.

Happy New Year!

Michael Mazzoli

President@CentralOhioASCE.com

GUY NORDENSON PRESENTATION

GUY NORDENSON

Date: Wednesday, January 18, 2012

Time: 5:30 PM

Location: The Ohio State University
 Knowlton Hall Auditorium
 Knowlton School of Architecture
 275 W. Woodruff Ave.
 Columbus, OH 43210

Guy Nordenson is a professor of structural engineering and architecture at Princeton University and a faculty associate of the University Center for Human Values. In 2003 Nordenson was the first recipient of the American Academy of Arts and Letters Academy Award in Architecture for contributions to architecture by a non-architect.



With Terence Riley he was co-curator of the "Tall Buildings" exhibition held at Museum of Modern Art (MoMA) in New York City in 2004. He has served as Commissioner and Secretary of the New York City Public Design Commission since

2006. He was the editor of Seven Structural Engineers —The Felix Candela Lectures in Structural Engineering, published in 2008 by MoMA. His project "On the Water—the NY/NJ Upper Bay" won the 2007 AIA College of Fellows Latrobe Research Prize. The research was published in On the Water | Palisade Bay and served as the inspiration for the MoMA workshop and exhibition "Rising Currents" in 2010. Nordenson was a recipient of the AIA's 2009 Institute Honors for Collaborative Achievement Award.

Nordenson was the structural engineer for the Museum of Modern Art expansion in New York, the Jubilee Church in Rome, the Simmons Residence Hall at MIT in Massachusetts, the Disneyland Parking Structure in California, the Santa Fe Opera House, and over 100 other projects. He is active in earthquake engineering, technology transfer, long-range planning, and research.

CPD Hours

A certificate for one (1) Continuing Professional Development (CPD) hour will be issued at the conclusion of the seminar.

Parking is available in one of 3 nearby parking garages on the OSU campus - Tuttle Park Place Garage, Northwest Garage, and Lane Avenue Garage. Click [HERE](#) for a campus map.

LICHTENSTEIN DISTINGUISHED LECTURE

THE LIMITS OF THE TALLEST BUILDING AND THE LONGEST BRIDGE

Date: Friday, February 3, 2012
 Time: 3:30 PM
 Location: The Ohio State University
 Robert Smith Seminar Room
 Physics Research Building
 191 W. Woodruff Ave.
 Columbus, OH 43210

Born in Switzerland and a graduate of the City College of New York, Mr. Matthys Levy received his MS and CE degrees from Columbia University. He is the recipient of the ASCE Innovation in Civil Engineering Award and three PCI awards. He was named a Structural Engineering Legend in Design by Structural Engineering Magazine in 2003. He is the co-author of the best selling book, *Why Buildings Fall Down*, as well as, *Structural Design in Architecture; Why the Earth Quakes; Earthquakes, Volcanoes & Tsunamis;* and *Earthquake Games and Engineering the City*. His recent book, *Why the Wind Blows, a history of weather and global warming*, was published in 2007. He was the principal designer for many projects including the



Javits Convention Center and the Georgia Dome in Atlanta, and a cable-stayed pedestrian bridge at Rockefeller University. He is the inventor of the Tenstar Dome structure, a unique tensegrity cable dome used to cover large spaces with minimal obstruction. Mr. Levy has served as an expert in forensic investigations including the World Trade Center Collapses in New York. He was elected to the National Academy of Engineering in 1996.

Ever since the late nineteenth century, structures have been built higher and bridges have spanned further. In 1939 when I arrived in the United States, New York could boast having the world's tallest skyscraper, the Empire State Building, and San Francisco the world's longest suspension bridge, the Golden Gate Bridge. After the Second World War, these records would soon tumble as longer and taller structures would be planned and built until here we are in the twenty-first century with Dubai's Burj Khalifa tower scraping the clouds at 828 m high and the planned Stretto di Messina Bridge jumping 5070 m across the strait separating Sicily from the Italian mainland. Have we reached too high and too far in our quest for sheer size? Have we reached the technological limit of how high we can build or how far we can span? What about Frank Lloyd Wright's mile high tower and the tempting Strait of Gibraltar waiting to join Europe to Africa. I propose to explore the limits that technology presents us in this quest and whether there are socio-economic constraints that may outweigh mere physical limits.

ASCE news ONLINE PUBLICATION



Beginning with January's edition, *ASCE News - The Newspaper for Members of the American Society of Civil Engineers*, will be published in a digital format only, part of ASCE's commitment to sustainability and fiscal responsibility.

The digital edition will be "published" and made available for viewing and download by ASCE members each mid-month, at the same time the print editions arrived in the mail. The high quality online magazine loads quickly, can be

expanded and customized to best fit your monitor, and viewing preferences tailored for easy reading. The document can also be printed for convenience.

The December 2011 edition of *ASCE News*, which will match the hardcopy to be mailed, can be viewed electronically by clicking [HERE](#). This November edition is in the same format as the digital-only editions that will appear starting in January, 2012.

By discontinuing the newspaper's print edition, ASCE furthers its commitment to sustainable publishing, reduces printing and mailing costs, and continues to advance its electronic publishing efforts.

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

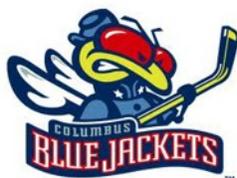
Presented by the Ohio Council of ASCE Sections, this award is given annually to a Civil Engineering project, not an individual or firm, to recognize the contribution of the many engineers who have worked on the project. The award is part of the [ASCE National OCEA Program](#).

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>.

Y O U N G E R M E M B E R S B L U E J A C K E T S E V E N T



The American Society of Highway Engineers (ASHE) has invited Younger Members to join them for a happy hour and Blue Jackets game on Thursday, January 19th. The happy hour is at Brothers Bar & Grille from 5:30 to 6:30 and the game is at 7:00. Tickets are \$23 and

payment much be received by Friday, January 13th. Spouses and guests are welcome. For additional information, payment and registration, contact Aaron Call at (614) 459-2050 or Aaron.Call@BurgessNiple.com. Payments may be mailed to Burgess & Niple, c/o Aaron Call, 5085 Reed Road, Columbus, OH 43220.

2011 - 2012 CENTRAL OHIO ASCE MEETINGS

| Meeting Date | Topic | Location | Coordinator |
|--------------------------------------|-----------------------------|-------------------------------|---------------------------------------|
| Thursday, January 12, 2012 Dinner | Caisson Case Study | Winking Lizard | Carrie Bremer (SEAoO) |
| Thursday, February 23, 2012 Lunch | NASA! (Engineering Week) | Bridgewater Conference Center | Engineering Week Organizing Committee |
| 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 | 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.

- Jan. 19-20, 2012 Chicago [Earthquake Induced Ground Motions -Newly Updated](#)
- Feb. 9-10, 2012 Chicago [Pumping Systems Design for Civil Engineers](#)
- Feb. 23-24, 2012 Minneapolis [Progressive Collapse Mitigation: Practical Analysis Methods and Proven Solutions](#)
- 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](#)
- March 29-30, 2012 Chicago [Seismic Design and Performance of Building Structures](#)

HIGH SCHOOL INTERNSHIP OPPORTUNITY

Metro Early College High School is seeking interested companies or individuals to participate in their Internship Program. This experience will connect aspiring young people with real-world professionals in order to foster partnerships that will benefit you (your organization), the students, and our community. Professionals can "give back" by sharing their



career knowledge and leadership skills with tomorrow's leaders--today's students. The Metro students can potentially assist in supporting roles to facilitate the work of you and your organization. To obtain more information, please contact Mr. Cory Neugebauer, Internship Coordinator/Senior Social Science Teacher at Metro Early College High School, at (614) 247-2276 or neugebauer@themetroschool.org

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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 February 2, 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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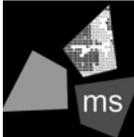
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