

ASCE Newsletter

Central Ohio Section

February, 2012
Volume 16, Issue 6

CONTENT

President's Letter 2

Latest News 2-5

Calendar of Events 5

Newsletter Ads 6-7

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ENGINEERS WEEK LUNCHEON

Date/Time: Thursday, February 23, 2012 - 11:30 A.M. Registration - 12:00 Noon Luncheon

Location: Bridgewater Conference Center – 10561 Sawmill Parkway - Powell, OH 43065 - Phone (614) 734-9800

Speaker: Bryan Palaszewski - NASA John H. Glenn Research Center

Topic: **The Impacts NASA has Made on the Average American Life**

Registration: Early bird registration is \$25 by February 9, 2012. Late registration \$35 (depending on availability, walk-ins may not be accepted). Register online at <http://ohio.apwa.net/events/8509/>. Payment in advance via credit or debit card is strongly encouraged. If paying by check, make payable to the Ohio APWA and mail to: OHIO APWA, PO Box 960, Marysville, OH 43040-0960.



**ENGINEERS
WEEK® 2012**

February 19-25

Engineers Week Sponsoring Organizations
–American Society of Civil Engineers

–American Public Works Association
(Central Ohio Branch)

–Society of Manufacturing Engineers
(Chapter 36)

–Ohio Society of Professional Engineers

–Engineer's Club of Columbus

–Institute of Electrical and Electronics
Engineers (Ohio Chapter)

–Institute of Transportation Engineers

–American Society of Highway Engineers

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LETTER FROM THE PRESIDENT

In January, ASCE and SEAO provided an interactive presentation by Mr. Bill Lantz, P.E. from Shelley, Metz, Baumann Hawk, Inc. of a case study which documented the caisson foundation and structural failure of a medical facility. The presentation discussed missteps, remediation and solutions that were taken by the entire design and construction team during the construction and remediation stages. I wanted to thank Mr. Lantz for providing the group with this very insightful presentation which I hope we can all take the lesson learned and prevent this from happening on future projects.

In February, the E-Week committee has planned a lunch event that will highlight the accomplishments of NASA and how their inventions have affected the average American life. The event will be held at the Bridgewater Conference Center located on Sawmill Road and will be presented by Mr. Brian Palaszewski from the NASA John H. Glenn Research Center in Cleveland, Ohio. A certificate for one Continuing Professional Development (CPD) will be issued at the conclusion of the program.

The time of year has come where we are currently looking for those individuals that would like to give back to ASCE and the engineering profession. We will be holding nominations for positions on the Central Ohio ASCE Board. Typically we look for an individual that would like to become an active board member in the spring where we will hold nominations for any open position on the board. If you or anyone you know would have interest in this please have them contact myself or any board member so that we can add their name to the spring nomination ballot.

Also please check out our web site where we have added links to those companies who have paid sponsorships for employment listings. If you click on to the employment page it will take you to a window where logos of each company are listed. If you click on the company logo it will take you directly to the company's web site employment section.

Michael Mazzoli

President@CentralOhioASCE.com

BREAKFAST WITH REP. LaTOURETTE

Date: Tuesday, March 13, 2012

Time: 7:30 AM to 8:00 AM Registration
 8:00 AM to 8:30 AM Breakfast
 8:30 AM to 9:30 AM Presentation & Q&A

Location: Crowne Plaza Hotel
 5300 Rockside Road
 Independence, Ohio

The Cleveland Section, the Akron-Canton Section, the Central Ohio Section and the Ohio Council of Sections of the American Society of Civil Engineers invite you to:



The Legislative Breakfast

Presented by
 Representative Steven C. LaTourette

14th Congressional District
 US House of Representatives

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

\$15.00 Members
 \$20.00 Non-Members
 \$10.00 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.

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.

INFRASTRUCTURE INVESTMENT FALLING SHORT

A recent study of investment in global infrastructure, completed annually by CG/LA Infrastructure, indicates a 10 to 20 percent shortfall from the \$10 trillion demand. The report, "The Global Infrastructure Marketplace: The World in 2015," analyzes infrastructure needs and spending in 80 countries using a 20 year history to project rates of investment. The report highlights the impacts on the global economy resulting from inadequate investment in roads, bridges, mass transit, and ports. Some of the major findings the report highlights are:

--Instead of increasing with the upturned economy, investments in infrastructure in the United States are declining and make up only 11 percent of the world total.

--China is projected to be the world's largest infrastructure market, leading a group of rising clusters and regions that include Canada, Australia, and Brazil. Investments in India and Russia are falling behind.

--Producing or receiving commodities leads to greatest infrastructure investment, with the most activity centered in Brazil, China, Africa, the Middle East, and parts of Latin America.

--Traditionally demanding sectors continue to lag. Mass transit is lagging; and investment in water distribution and wastewater treatment will be less than 9 percent of the total global investment. Highways and electricity investments account for 65 percent of the global total.

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.

ASCE news ONLINE PUBLICATION



Beginning with January's edition, *ASCE News - The Newspaper for Members of the American Society of Civil Engineers*, is now published in a digital format only.

The digital edition will be made available for viewing and download by ASCE members each mid-month. The high quality online maga-

zine loads quickly, can be expanded and customized to best fit your monitor and viewing preferences or printed for easy reading.

The January 2012 edition of *ASCE News* can be viewed electronically by clicking [HERE](#).

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

2011 - 2012 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Location	Coordinator
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

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 March 1, 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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