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PRESIDENT'S REMARKS

The new ASCE year has begun, and it got off to an exciting start last month with a tour of the I-75/SR-4 Interchange Reconstruction Project! This was a very interesting field trip that included a presentation by CH2M Hill about the design challenges of the project, and then a guided tour of the project by officials from Kokosing and ODOT. I thought it was a very unique experience to be standing on top of the I-75 mainline bridge over the Great Miami River that one day soon will carry hundreds of thousands of vehicles every day. That was really a once in a lifetime experience!

Please be sure to make your reservation by October 12 to attend the next Section Meeting to be held on **Thursday, October 15 at 11:30 AM**. This meeting will be held on the University of Dayton campus, and we will be hearing a presentation from members of the University's ETHOS Club, of which several are UD Civil Engineering students.

Mark Ewalt will discuss the installation of a water system in a village in Cameroon during summer 2009. Tom Schoen and Mark Plecnik will share their developing plan to address the widespread problem of arsenic polluted drinking water in rural Bangladesh.

ETHOS is an acronym for "Engineers in Technical Humanitarian Opportunities of Service-learning." Over the past several years, the ASCE Dayton Section has provided funds for students to travel abroad to provide humanitarian aid and engineering solutions to the less fortunate of our international community. Please plan to attend the meeting and show your support for this very worthy cause!

I would like to personally thank Tom Mc Crate for his many years of service to the ASCE Dayton Section Education Committee. Tom has been the chair of this committee for a long time, and recently decided to step down as the committee chair. I am pleased that Tom will remain an active member of the Education Committee, as his input and service are greatly valued. Thank you Tom!

The Education Committee is responsible for organizing the annual seminar that is typically held in late February. They also nominate students for the Dayton Section Outstanding Senior Award, given each year to a senior student at the University of Dayton who demonstrates outstanding leadership, and service to ASCE. The Education Committee also nominates students to receive the Weiss Memorial Scholarship, given to a student each year that demonstrates academic excellence and involvement in ASCE.

Terry Dalrymple has accepted the Board nomination to become the new chair of the Education Committee. Terry has been a long-standing member of ASCE, has been active for many years on the Dayton Section Board, and is a past-president of the Dayton Section. He has also continued to serve on the ASCE Ohio Council, as well as the Dayton Section Education Committee. The Board is looking forward to having Terry serve as the new chair of the Education Committee for many years to come!

Steve Bergstresser, P.E.
ASCE Dayton Section President
City of Kettering Engineering Director / City Engineer

ASCE LUNCHEON MEETING

Date: Thursday, October 15, 2009

Time: 11:30 am – lunch served, 12:00 pm - presentation

Place: University of Dayton, Virginia W. Kettering Residence Hall, Rooms 141 and 143

Topic: An exciting ETHOS update from UD engineering students! Mark Ewalt will discuss the installation of a water system in a village in Cameroon during summer 2009. Tom Schoen and Mark Plecnik will share their developing plan to address the widespread problem of arsenic polluted drinking water in rural Bangladesh.

Presented by: ETHOS (Engineers in Technical Humanitarian Opportunities of Service-learning)

Cost: \$12.00/member, \$6.00/student with RSVP. Cost without RSVP is \$17 at the door.

Reservations: Contact **MaryJo Csizma**, City of Kettering Engineering Department,
by **5:00pm on Monday, October 12, 2009.**

Phone: 937-296-2436, Fax: 937-296-3242 or

Email: MaryJo.Csizma@ketteringoh.org

Lunch will be sandwiches and beverages.

Please remember that if you must cancel your reservation, do so at least 2 days prior to the meeting.

IMPORTANT PARKING INFORMATION: Parking passes have been reserved for **Lots SV** (near Stuart Hall) for this meeting.

You will have to stop at the main Visitors Center on College Park Drive to pick up a parking pass. Tell the guard you are there for the ASCE chapter meeting at VWK Hall.

IN ORDER TO ARRIVE AT THE MEETING ON TIME FOR LUNCH AT 11:30 AM/PRESENTATION AT 12:00 PM, PLEASE ALLOW AN EXTRA 10-15 MINUTES OF TRAVEL TIME TO PARK AND WALK TO THE MEETING ROOM IN VWK.

CAMPUS MAP: Refer to link (<http://housing.udayton.edu/facilities/map/Campus-Map%207-07.pdf>) for campus map. Main Visitors Center – Grid I4, Lot SV –Grid C13, and VWK (VK on map) – Grid F12

DIRECTIONS to Main Visitors Center:

- Heading south on Brown St., turn **LEFT** (east) on **STEWART ST**
- Immediately veer to the right into the main University of Dayton Entrance
- Follow College Park Drive Past Keller Hall (law school) and the Roesch Library
- Veer to the right to the Main Visitors Center – ask for a parking pass for the ASCE luncheon / SV parking lot

DIRECTIONS from MAIN VISITORS CENTER to SV LOT:

·Turn **RIGHT** out of the Main Visitors Center onto **L STREET** ·At the light, turn **LEFT** (south) onto **BROWN ST** ·Pass Caldwell St, Stonemill Rd, Kiefaber St., and Lowes St. ·At the light, turn **LEFT** (east) onto **IRVING AVE** ·On your left, pass Frericks Way, Lawnview Ave, Evanston Ave, and Trinity Ave. After Trinity, on your right pass, Mahrt Ave and Acacia Dr.

Immediately after passing Acacia Dr. on your right, turn left onto an unnamed road with a “University of Dayton Sign. At the “Y” in the road, veer right to go up the hill. Turn Left to park in the SV lot. Make sure to display your parking pass. Walk out of the lot up hill toward Stuart Hall. Pass Stuart Hall on your right and walk down the hill towards VWK Hall, look for the main entrance on the right (up steps). Through the main entrance go to the left toward the cafeteria (not up the stairs to the lobby), pass the cafeteria and turn left down the hall. Rooms 141/143 will be on the left

IMPORTANT NOTE: *Stewart Bridge is closed for construction, please follow detour signs or take the Main Street/Jefferson Street exit from US-35.*

LAST MONTH'S SECTION MEETING

Thank you to everyone who attended the field trip at Malfunction Junction. Thank you to Jason Centers, Kirby Fontaine, Josh Bowman CH2M Hill, Kokosing Construction Company, and ODOT. Below are a few pictures from the field trip.



FUTURE LUNCHEON MEETINGS

Here are the dates of the meetings for 2009/2010. Put them on your calendar and watch for more details! Remember to check the newsletter each month for additional details on time, location and topic and in case changes are made at the last minute due to scheduling issues.

Thursday, October 15, 2009 – ETHOS Update
Thursday, November 19, 2009 – Angela Manuszak, Miami Conservancy District
Thursday, December 10, 2009 – Holiday Lunch Social at the Patterson Homestead
Thursday, January 21, 2010 -
Thursday, February 18, 2010 -
Thursday, March 18, 2010 -
Thursday, April 15, 2010 -
Thursday, May 20, 2010 -
Thursday, June 17, 2010

ASCE STUDENT CHAPTER UPDATE

The Student Chapter has big plans this year! Hope everyone had a good time at the Golf Outting on September 19, 2009, and can support the Student Chapter in numerous ways throughout the year. If you are interested in presenting at one of their chapter meetings contact President Nick Mueller at muellenm@notes.udayton.edu. You can also visit their website at: www.udayton.edu/~asce

The student chapter is excited to be hosting this month's section meeting at UD with an Ethos presentation.

The student newsletter wasn't available at the time of our distribution, in future editions their newsletters will be appended to this newsletter.

FALL SEMINAR – SPONSORED BY ASCE DAYTON SECTION

NOTICE

The Fall Seminar Has Been Cancelled. Sorry for any inconvenience this may be.

For more information contact :

Steve Bergstresser, P.E.

(937) 296-2436

Steven.Bergstresser@ketteringoh.org

FREE
Stream Restoration and Stabilization
Workshop for Professionals!

KCI Technologies Inc., The Honey Creek Watershed Association (HCWA) and the Miami Soil & Water Conservation District will be hosting a free workshop on fluvial geomorphic stream restoration and stabilization. The workshop will cover topics that include *fluvial geomorphology fundamentals, channel evolution, geomorphic design process as well as a site tour of a recently installed OEPA 319 stream restoration project on the Honey Creek*. A free lunch and workshop materials will be provided.

The Honey Creek Stream Restoration project restored and stabilized 524 feet of stream bank, planted two acres of native tree species and two acres of native prairie to widen and enhance the riparian habitat along this section of the Honey Creek. The HCWA hired KCI Technologies Inc. of Raleigh, North Carolina to design and complete the stream restoration project. The latest geomorphic fluvial techniques including rock cross veins, J-hooks and live lifts were used. This project was made possible for the HCWA through a \$129,400 OEPA 319 Stream Restoration Grant. The project site is located on the Honey Creek at the Honey Creek Preserve on State Route 202 in Tipp City.

The workshop will be held **Thursday, October 22nd**, 2009 from 8AM- 5PM and will be held at the *Tipp City Council Room at 260 Garber Dr. Tipp City, OH 45371*. Professional development hours will also be offered. Space is limited to 50 participants and the **registration deadline is October 19th**. To register please call Miami SWCD at 937-335-7666. *Remember to bring your boots for the tour!*

IT'S TIME TO RENEW YOUR MEMBERSHIP

The ASCE Renewal Race is on! [Renew your 2010 ASCE membership now](#) and help your ASCE Section cross the finish line first. This year, ASCE will award \$1,250 to the small, medium, and large Section that has the highest percentage of renewing members by Dec. 1.

Beyond helping your Section, you guarantee your exclusive member only access to these **new** ASCE programs in 2009-2010, in addition to the [resources you enjoy every year with ASCE](#):

- **New - [ASCE eLearning Workshops](#)** – Use free member-only access to live Web learning programs designed to help you hone critical career skills.
- **New - [Expanded eMentoring Programs](#)** – Mentors and protégés benefit from an extended personal online network to exchange ideas, learn new skills, and share experiences.
- **Growing - [Participate in EWB-USA](#)** – Help bring sustainable engineering projects to developing communities worldwide by joining or renewing with EWB-USA at an exclusive ASCE member discount.

3 Ways to Renew

1. Mail in your 2010 renewal form, which was mailed on Sept. 8, 2009.
2. Renew online at www.asce.org/renewal and help ASCE “go green” by conserving the paper used in mailing your renewal back and also saving on printing costs for future renewal notices .
3. Call ASCE Customer Service at (800) 548-ASCE (2723) or (703) 295-6300 between 9:00 a.m. – 5:00 p.m. ET, Monday-Friday.

Get in the Section Renewal Race right now by renewing your 2010 ASCE membership today - and start 2010 with a strong financial base for your Section or Branch.

Lichtenstein Distinguished Lecture

College of Engineering

Department of Civil & Environmental Engineering & Geodetic Science

Dr. John M. Kulicki

Chairman and CEO

Modjeski and Masters, Inc.

A graduate of Lafayette College and Lehigh University, Dr. Kulicki has over thirty-five years of experience in virtually all aspects of bridge analysis and design. He joined Modjeski and Masters in 1974. Dr. Kulicki led a 50-member team of experts in the development of the AASHTO LRFD Bridge Design Specifications. He is the author of the AASHTO "*Guide Specifications for Load Factor Design of Trusses*." He was named one of ENR's "Men Who Made Marks" in 1991. In 2002 he received a "Life Time Achievement Award" from the American Institute of Steel Construction. In 2005, he received the "Bridge Design Award" from the Bridge Engineering Association, and the Transportation Research Board's Roy Crum Award. He was elected to the National Academy of Engineering in 2006.

Host: Hojjat Adeli (phone: 614-292-7929)

A Tale of Bridge Engineering and Public Process or The Unstoppable Force and the Immovable Object

A consulting firm was awarded a commission based on an advertisement for bridge design services which spoke to a minimum span of 1000 feet with the width unstated as dual structures were considered possible. About a year later a design concept for a cable stayed bridge with a 2000 foot main span and a width of 222 feet carrying 12 design lanes was accepted by the owners. How did the originally advertised bridge grow to be the widest cable stayed bridge in the world and the longest in the Western Hemisphere----all supported from two single pylon backward tilting towers? What combination of natural, engineering, aesthetic, economic, societal and political factors combined to produce this outcome? Are engineers being educated for leadership roles in this environment? This presentation addresses these issues through a case study. This presentation will also review other recent designs by Modjeski and Masters for which factors other than simple engineering efficiency were major contributors to the final selection of bridge type and appearance. Finally, the presentation will contain a few observations on the increasing use of highly computerized design processes.

Friday, Oct. 16, 2009; 3:30 P.M.

410 Hitchcock Hall

2070 Neil Avenue

The Ohio State University

Columbus OH 43210

Lichtenstein Distinguished Lecture

College of Engineering

Dr. Ahsan Kareem
Robert M. Moran Professor of Engineering
University of Notre Dame

Dr. Kareem received his B.S. in Civil Engineering from Pakistan University of Engineering and Technology in 1968, M.S. from University of Hawaii in 1975, and Ph.D. from Colorado State University in 1978. He currently directs NatHaz Modeling laboratory at Notre Dame. His work focuses on probabilistic structural dynamics with applications to wind, waves, and earthquake loadings. Before joining Notre Dame, he served as assistant, associate and full professor and the Director of Structural Aerodynamics and Ocean Systems Modeling Laboratory at the University of Houston. He has published 160 technical articles in refereed journals. Among his awards are ASCE J. E. Cermak Medal , ASCE Robert H. Scanlan Medal, and the Alan G. Davenport Medal from the International Association of Wind Engineering . He was elected to the National Academy of Engineering in 2009 for his contributions to *analyses and designs to account for wind effects on tall buildings, long span bridges, and other structures.*

Tailoring Contemporary Structures for Dynamic Wind Effects

The seminar will provide an interesting guided tour of the effects of wind on contemporary structures. The challenges in this field are enormous and a multidisciplinary approach is required to address them. An assessment of aerodynamic loads on modern long span bridges (e.g., crossings over straits like Messina), tall buildings (e.g., extending beyond atmospheric boundary layers like Burj Dubai) and deep offshore platforms (Compliant systems several thousand feet) is central to their performance analysis in extreme winds. This seminar will address fundamental issues related to the modeling of wind load effects on these structures. A brief overview of the extreme wind characteristics in hurricanes, tornadoes and downbursts and their impact on structures will be presented. Examples of glass damage experienced by many high-rise buildings during Hurricane Ike will be presented with a forensic analysis of damage. An overview of the basic techniques for quantification of wind loads and their effects using analytical, CFD and model based simulation schemes, code and standards-based procedures, and full-scale experiments will be presented.

Friday, November 20, 2009
3:30 P.M.

260 Dreese Hall, 2015 Neil Avenue
The Ohio State University
Columbus OH 43210

Host: Hojjat Adeli (phone: 614-292-7929)

ASCE OCTOBER 2009 CONTINUING EDUCATION LIVE INTERACTIVE WEB SEMINARS

Thu Oct 01, 2009	Understanding HEC-RAS Errors, Warnings and Notes
Fri Oct 02, 2009	Deterioration and Repair of Concrete
Mon Oct 05, 2009	How to Talk to Your Clients Strategically About Sustainable Development
Tue Oct 06, 2009	Designing and Procuring Pre-Engineered Buildings
Wed Oct 07, 2009	Project Partnering: Principals, Techniques and Benefits
Thu Oct 08, 2009	Structural Steel Buildings: Design Basics
Fri Oct 09, 2009	Traffic Control Devices
Mon Oct 12, 2009	Curve Number and Vegetative Techniques to Manage Stormwater Runoff Sustainability
Tue Oct 13, 2009	Reinforced Masonry: Design and Construction
Wed Oct 14, 2009 & Mon Oct 26, 2009	Creating a Positive and Productive Workplace in a Difficult Business Environment - Two Part Series
Thu Oct 15, 2009	An Introduction to Passive Solar Buildings
Fri Oct 16, 2009	Keeping Airports Functioning During Disaster
Mon Oct 19, 2009	An Introduction to HEC-RAS Culvert Hydraulics
Tue Oct 20, 2009	Renovation of Slabs on Grade
Wed Oct 21, 2009	Green Highways and Green Streets for 21st Century Infrastructure: Strategies, Technologies and Funding
Wed Oct 21, 2009	The Seven Qualities of Effective Leaders
Thu Oct 22, 2009	Wind and Seismic Retrofit of Wood-Framed Buildings
Fri Oct 23, 2009	Developing Effective Teams
Tue Oct 27, 2009	Engineered Rainwater Collection and Case Studies for Sustainable Water Management
Wed Oct 28, 2009	Design of Masonry Shear Walls
Thu Oct 29, 2009	EDCs and Pharmaceuticals: Treatment Tools and Public Awareness
Fri Oct 30, 2009	Sight Distance

For a complete list of webinars and registration information , please go to <http://www.asce.org/webinar/list>

2009/2010 ASCE DAYTON SECTION BOARD OF DIRECTORS

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2009/2010 ASCE DAYTON SECTION COMMITTEE CHAIRS

Education	Position Open		
Younger Members	Jason Starner	BWSC, Inc.	937.438.0378
Student Chapter Advisor	Riad Al-Akkad	University of Dayton	937.229.3847
Student Chap. President	Nick Mueller	University of Dayton	937.229.3847

TECHNICAL GROUPS

Geotechnical: Position Open

Structural/Construction: Frank Monostra, Woolpert LLP - 937.341.9291

Environmental: Ron Volkerding, Greene County Sanitary Engineering – 937.562.7450

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<http://sections.asce.org/dayton/>

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