

December, 2012
Volume 17, Issue 4

CONTENT

President's Letter 2

Latest News 2-6

Calendar of Events 7

Newsletter Ads 7-8

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DECEMBER LUNCH

DATE: Thurs. December 20, 2012 - 11:30 A.M. Registration - 12:00 P.M. Presentation and Lunch

LOCATION: Villa Milano, 1630 Schrock Road,
Columbus, Oh 43229

SPEAKER: Rob Van Evra
City of Columbus, Division of
Sewerage and Drainage,
Treatment Engineering Section

TOPIC: **City of Columbus Solids Treatment
& Utilization Master Plan - STUMP**

STUMP City of Columbus Solids Treatment and Utilization Master Plan



Drafting the most recent version of the City of Columbus Department of Public Utilities wastewater treatment solids master plan incorporated a customized, state of the art flow computer model populated with detailed operational data from the City's WWTPs. Numerous combinations of biosolids treatment and distribution scenarios were examined and comparatively rated for economic, energy and emissions attributes of each.

The result of this investigation made the case for DPU to further increase the beneficial uses of biosolids, supporting Mayor Coleman's "Get Green Columbus" goals of reducing energy usage and greenhouse gas emissions from City facilities and diverting City byproducts from the waste stream. Thus, where previous master plans had referred to solids disposal, the latest version has been aptly titled the "City of Columbus Solids Treatment and Utilization Master Plan (STUMP)".

MENU: Lasagna (with meat sauce) or Lasagna Cacciatora (vegetarian) -please specify at registration.

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

COST: \$20 ASCE Members & Guests, \$15 ASCE Life Members, \$10 Students

REGISTER: **Registration is due by 5:00 PM on Mon., Dec. 17.** Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. To register contact Michael Navabi: 614-839-0250, or register@centralohioasce.com

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

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LETTER FROM THE PRESIDENT

ASCE Members,

I wanted to update you on a few items the board has been working on. The board voted last month to allocate \$1000 a year to Ohio University and The Ohio State University for civil engineering student scholarships. We will publish more information on these scholarships in the near future. Additionally, a \$1000 donation was made to the Engineers Without Borders Central Ohio Chapter to support their efforts on a project in El Salvador. Our donation to EWB was matched 50% by an outside donor.

The section has started a great program to help our members earn PDH's for free. Companies can volunteer to host an ASCE webinar at their office and allow section members to attend. The section will cover the costs of the webinar and will handle coordination of attendees. Keep an eye out for these events and let us know if your company would be willing to host a webinar.

I hope everyone has a great holiday.

Regards,
Adam Rich, P.E., M.ASCE
President – ASCE Central Ohio Section
President@CentralOhioASCE.com

MEMBERSHIP RENEWAL RACE



The race is on to renew your ASCE National and Central Ohio Section Membership now. If you renew by December 14, 2012, the Central Ohio Section could be the lucky winner of a \$1,000 cash prize to support our local programs. Prizes will be awarded based on the highest percentage of renewing members in three categories - Large, Medium, and Small sections. To renew now, please click [HERE](#). Thank you in advance for your support and your continued membership.

Can your Section beat last year's winners?

2011 Large Winner:	2011 Medium Winner:	2011 Small Winner:
Louisiana	Iowa	North Dakota

Current ASCE Section Standings: (last updated 11/27/2012)

LARGE SECTIONS:	MEDIUM SECTIONS:	SMALL SECTIONS:
Louisiana	Iowa	North Dakota
Maryland	Alaska	Kansas
Connecticut	Kansas City	Akron-Canton
Oregon	Kentucky	Quad Cities
Seattle	Utah	West Virginia

ASCE SALARY SURVEY



The Engineering Income & Salary Survey

Did you know that ASCE hosts a national Engineering Salary in coordination with American Society of Mechanical Engineers (ASME)? If you have never participated, I would highly encourage it. It is completely anonymous and participating once a year helps keep the data current. Over 20,000 engineers have completed the survey to

provide a breadth of information for analysis. After completing the survey, limited salary information for your geographical area, career level, and area of expertise are provided for free. Click [HERE](#) to visit the ASCE Salary Survey website for additional information.

The Central Ohio Section has access to the complete 2012 salary survey report. This report can be used by section members upon request.

FREE WEBINAR - SWPPP PLANS

What: Free Continuing Education Webinar - 1.5 PDH

When: Tuesday, Jan. 8, 2013
11:30 AM - 1:00 PM
Bring your own lunch

Where: Korda/Nemeth Engineering, Inc.
1650 Watermark Drive, Suite 200
Columbus, OH 43215

Who: Central Ohio Section Members

Topic: **Preparing and Implementing Construction Site Storm Water Pollution Prevention Plans**



Details: [Click Here](#)

RSVP: To newsletter@centralohioasce.com by Friday, Jan. 4.

*Seating is limited to the first 25 people.

With the passage of amendments to the Federal Clean Water Act in 1987, the United States Environmental Protection Agency (USEPA) was required to implement a program to regulate the discharge of storm water from construction activities under the National Pollutant Discharge Elimination System (NPDES). With the advent of NPDES Phase II in 2003, additional construction projects became regulated. Since the release of the first construction general permit in the early 1990s, engineers, reviewers, and construction contractors have struggled to understand and

comply with EPA requirements. The EPA has continued to revise and develop the permit program by issuing subsequent regulations, permits, and guidance documents. As enforcement of Clean Water Act violations increase at construction sites, those responsible for compliance need to understand what they must do in order to avoid stiff penalties and to keep neighboring streams and properties clean. A good way to avoid these costly penalties and delays to a construction project is to prepare and implement a complete Storm Water Pollution Prevention Plan (SWPPP).

Webinar Benefits

- Learn the basic requirements of the USEPA Construction General Permit
- Understand the sections of a SWPPP
- Discuss where to find valuable tools for SWPPP preparation and guidance
- View a sample plan from USEPA

Webinar Outline

- Overview of USEPA Construction General Permit
- Required sections of construction SWPPP
- Construction storm water best management practices
- Terminating permit coverage
- Review of sample SWPPP

FREE CONTINUING EDUCATION WEBINARS

What: Free Continuing Education Webinars

When: Monthly or Bi-Monthly, over lunch hour

Where: A participating Section Member's office or other venue

Who: Open to all Central Ohio Section Members



As a service to our members, the Central Ohio Section is considering sponsoring free continuing education webinars through the ASCE National website. Webinars will be evaluated based on member interest and expected participation, and will typically held over a lunch hour. Lunch will not be provided. A complete list of available webinars is available by clicking [HERE](#).

ASCE's webinars use teleconferencing and Microsoft Live Meeting Professional software to make the events an actual live, interactive learning experience. You will be able to ask the instructor questions and get live real time answers. The instructor will be able to conduct

polls to gauge your interest in certain areas and ask you questions as well. Webinar materials/handouts will be provided prior to the webinar and you will be able to view the instructor's Power Point slides during the webinar. Webinars have a much higher impact than simply reading material on the web.

In order to gauge participation, **we request your feedback.**

1. Please evaluate the list of available topics [HERE](#).
2. Respond to newsletter@centralohioasce.com expressing your interest in a particular webinar during the months of December through March.
3. We are also looking for host locations. If your company or organization would be interested in hosting a webinar in your conference room and opening it up to other interested Section Members, please also respond accordingly.
4. Based on feedback provided, upcoming webinars will be advertised in the newsletter, on the Central Ohio Section website, and via email.

ASCE NATIONAL DIRECTOR'S MEETING

The ASCE Board of Direction met October 16-17 to discuss issues central to ASCE and civil engineering in general. Among the items discussed were:

- Approval to include ASCE's key solutions and vision statement in the upcoming 2013 release of the *2013 Report Card for America's Infrastructure*
- Voted to support continued funding of the Institute for Sustainable Infrastructure, Inc. (ISI), a joint initiative of ASCE, the American Council of Engineering Companies, and the American Public Works Association. Updated versions of the Envision sustainability rating system and checklists are available [HERE](#).
- Adopted a revised definition of "civil engineering", which reads: "Civil

engineering is the profession that utilizes the materials and forces of nature to create, maintain, and improve the built environment, and protect and enhance the natural environment for the progressive well-being of humanity. The practice of civil engineering is founded on the creative analysis and synthesis of scientific, mathematical, and economic principles gained by study, experience, and practice, and guided by the imperative to protect the public health, safety, and welfare."

- Prioritized the transition of student members into full or associated Society membership and created an action plan to do so.

ASCE CONTINUING EDUCATION SEMINARS

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
Seismic Hazard Evaluation and Mitigation Using Simple Methods - NEW	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

FILM RELEASE - CIVIL ENGINEER IS HERO

If you try to count the number of movies that have an engineer as a major character, you probably won't get off the fingers of one hand. I know of *Arlington Road* (the engineer, played by Tim Robbins, is a terrorist), *Falling Down* (the engineer, Michael Douglas, goes berserk), and *Mr. & Mrs. Smith* (the cover profession of the assassin, Brad Pitt, is an engineer), just to name a few. The problem with these is that the silver screen engineer hardly fits the bill as someone you'd want to invite home for dinner.

Movies are of course only one genre. In the twenty-seven years I've worked with engineering associations, the last seven at ASCE, the most repeated refrain I've heard from engineers is, "Why can't we have a TV show *L.A. Engineer*?" (For those of a younger generation, *L.A. Law* was a popular TV series in the late '80s and early '90s that featured a cast of characters from a law firm in Los Angeles.) The problem with popular entertainment (or the attraction of it, depending on your point of view) is that you often have to toss in sex, violence, intrigue, and oddball personalities to get an audience. For a civil engineering firm setting, that might imply you have to make the firm's engineers corrupt, or have bad designs kill people, or fill the office with philanderers to give the *L.A. Law* treatment. The possibilities are of course limitless, but that might not be the image you'd want to project for CEs.

Nevertheless, that refrain of *L.A. Engineer* stayed with me, and given my ongoing interest in writing fiction, I got to wondering whether I could write something to address the popular entertainment void for engineers. That speculation, after a long off-and-on road, resulted in my newly released thriller *The Jackhammer Elegies*, which features a civil engineer as the main character and hero.

I started planning my novel in the '90s, getting my initial plot hook from a story I heard about a New York City professional engineer who'd been caught in an elevator after the 1993 World Trade Center bombing and his ordeal in getting out. A fictionalized version of his experience became the opening scene in *The Jackhammer Elegies*, where the location is transported to Rosslyn, Virginia (across the river from Washington, D.C.), and the man trapped is Scott Carter, a structural engineer who had designed the steel frame to the building. In the novel, that powerful basement blast rocks Carter from his everyday life into the media limelight—and ultimately into the crosshairs of a technically cunning terrorist. Carter's knowledge of the building's structural framework helps him alert the city about potential collapse, but that turns him into the conduit of threats from the mastermind of the attack, alias Jackhammer. Carter becomes a consultant to the FBI as it investigates the engineering angles to the case, teaming up with Special Agent Michelle Taylor, whose striking presence pulls Carter into the complications of a growing love. The partners soon find themselves matching wits with an elusive mastermind targeting the lifelines of a city's public works.

A first draft took about two and a half years, but marketing the book to literary agents got put on hold when 9/11 struck. The dark mood of the nation meant no one had an appetite for stories involving terrorists, and it would take years before movies and fiction ventured into the subject matter of 9/11 itself. I put my book on ice, and after an interim revisit, got serious in 2011-12 with a major revision and upgrade. I then took advantage of the new self-publishing systems.

Besides trying to build an engaging plot, I hoped to paint the world of civil and professional engineering through Carter's character and his active participation in ASCE activities. However, I didn't want to portray Carter or the profession in idealized terms. He fights self-doubts about his move into management to make more money when his true passion is design, and health issues can at times undermine his confidence as he faces the stresses of his hunt for the public works terrorist. As one PE reviewer of the novel said, "The book . . . portray[s] the engineering profession with all of its strengths, weaknesses, and foibles."

You may be asking yourself whether I'm an engineer. I'm not, but I did start my adult life with a physics and astronomy degree, so I've enjoyed the ability to relate to technical questions even though my work with engineers has generally been focused on professional and policy issues. While I enjoyed bringing those issues into my book, the one aspect that provides a bit of unease is that in promoting the novel I'll come across as simply wanting to make a buck through book sales. The pleasure is getting a story about civil engineers and PEs in front of engineers and the public. I'm guessing my experience might parallel that of civil engineers who testify before Congress on the critical need for renewing our nation's infrastructure. The engineers are pushing for something from a standpoint of the public, but there's no guarantee some congressman won't accuse them of lobbying for funding that will put money in their pockets through more demand for civil engineering design work. There's no obvious way to completely avoid that trap.

I only hope my thriller can do its part in shining the spotlight a bit brighter on civil engineers and ASCE.

Stefan Jaeger, CAE, serves as Managing Director of Member & Corporate Communications at the American Society of Civil Engineers, following a 1986-2005 tenure on the National Society of Professional Engineers staff. He is author of the new thriller The Jackhammer Elegies and can be reached at sjaeger@thejackhammerelegies.com. His novel is available on Amazon.com (paperback and Kindle) and on BN.com (Nook Book). Discounted bulk purchases are available by contacting the author. © Stefan Jaeger 2012

2012 - 2013 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday December 20, 2012 Lunch	Columbus Solids Treatment Utilization Master Plan	ASCE / City of Columbus	Villa Milano, Westerville	Greg Barden
Thursday January 17, 2013 Lunch	Columbus Airport Updates	ASCE Younger Members	Villa Milano, Westerville	Stephanie Phillips
T.B.D. February 18, 2013 Lunch	Engineers' Week	All	Bridgewater Conference Center	Engineering Week Committee
Thursday March 14, 2013 Lunch	Remediation Utilizing GIS	ASCE	TBD	Mark Siedelmann and David Alvarez
Thursday March 28, 2013 Lunch	ASCE Annual Seminar: "Design and Construction of Steel Sheet Piling Structures"	ASCE	WD Partners, Dublin	Carlos Vazquez (ASCE)
Tuesday April 16, 2013 Dinner	OSU/OU Student Chapter & President Elect	OSU / OU / ASCE	Ohio University	Bob Redfield / Dr. Carolyn Merry
Wednesday April 17, 2013 Lunch	ASCE National President Elect - Randy Over	OSU / OU / ASCE	The Ohio State University	Bob Redfield / Dr. Carolyn Merry
Thursday May 16, 2013 Lunch	Engineers Without Borders (EWB) / Awards	ASCE	TBD	Coordinator: Dave Pritchard - Awards: Kevin Carpenter
T.B.D. June, 2013 Dinner	2013-2014 Planning Meeting	ASCE	Tommy's Pizza, Dublin, Ohio	Mark Siedelmann (ASCE)
Friday June 21, 2013 Lunch/Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk (ASCE)

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Web: www.centralohioasce.com

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BOARD MEETING

Our Next Board Meeting
Will Be January 31, 2013.
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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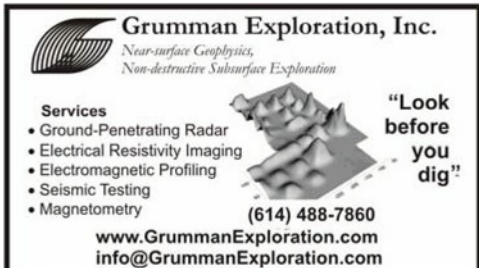
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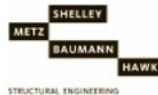


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