

Fairfax County Transportation: Vision and Challenges

Wednesday, October 20, 2010

The Northern Virginia region is facing problems similar to many other locations in the country in the face of the current economic downturn. With 1.1 million commuters, the transportation network is a critical asset to the region's economy. Deteriorating and aging infrastructure along with increased congestion are major issues for residents of the region. Funding in the Commonwealth for secondary road projects has diminished drastically in light of the recent budget difficulties. For example, Fairfax County, one of Virginia's most populous areas, has seen its budget for secondary roads fall from \$29 million in 2004 to \$238,000 this year.

With issues like these of primary importance to civil engineers, the National Capital Section (NCS) of ASCE is pleased to welcome **Sharon Bulova, Chairman of the Fairfax County Board of Supervisors**, to speak at its October 20 meeting. She has been on the Board since 1988 and spent 19 years as Chairman of the Board's Budget Committee before being elected Board Chairman in February 2009.



As a long-time champion of transportation and infrastructure issues in Fairfax County, Ms. Bulova will speak about transportation issues in the county and

address some of the challenges being faced in times of reduced funding. The presentation will touch on many major programs and projects affected by civil engineers, including the use of federal stimulus funding in infrastructure projects. Specific topics to be addressed in the presentation are:

The Dulles Metrorail Extension Project

This new 23-mile-long transit line will be built in two phases:

1. Phase 1 will extend Metro from the Orange Line between East and West Falls Church Stations to Wiehle Avenue and includes four stations in Tysons Corner. The expected

completion date for construction of Phase 1 is mid-2013. Metro plans to test the system before opening it in late 2013.

2. Phase 2 would extend Metro through Reston and Herndon to Dulles Airport and Route 772 in Loudoun County.



The Route 28 Taxing District

This special tax district was formed in partnership with Loudoun County in 1987 to provide improvements to State Route 28. Under the terms of the agreement with the state, the District will fund 75 percent of defined Phase I and Phase II improvements and the state will fund 25 percent from funds received through the State Primary Road Fund allocation formula. Total expenditures for the fund are over \$11 million.

The Tysons Comprehensive Plan

The current Comprehensive Plan provides a vision for substantial change in Tysons (becoming more pedestrian-oriented with rail). The Plan is the starting point for these changes by updating land use and zoning ordinances. The Board of Supervisors envisions transforming Tysons into a walkable, green urban center, becoming home to up to 100,000 residents and 200,000 jobs by 2050. It will become a 24-hour urban center where people live, work and play—instead of a sprawling suburban office park.

Because the Plan was designed to take advantage of the four new Metro

continued on page 2

President's Corner

The new year for ASCE is underway and we have started off our first Section meeting with installation of the new officers and a strong program updating progress on the InterCounty Connector Project. The turnout and networking opportunities were good for the group. I



hope all members will take advantage of the upcoming Section meetings to hear good presentations, network with their peers, and learn about ASCE NCS activities. I encourage all regular attendees to bring a guest to a meeting this year.

Our next Section meeting will be on October 20 (note, **this is a Wednesday**) at the Hyatt Regency in Crystal City, when we will feature Chairman Sharon Bulova of Fairfax County's Board of Supervisors. She will present on transportation issues and challenges in

Fairfax County, Virginia. Her presentation will focus on the Dulles Metro Rail extension, Route 28 Special Tax District, Tysons Comprehensive Plan, and issues related to infrastructure planning and maintenance in an

continued on page 2

economic downturn. These projects represent significant challenges in which the region's civil engineers will demonstrate leadership in addressing its transportation issues.

The Section has many volunteer activities scheduled for the year, and October 23-24 features the first-ever USA Science & Engineering Festival Expo on the National Mall. The two-day Expo is perfect for teens, children and their families, and anyone with a curious mind who is looking for a weekend of fun and discovery. This is an opportunity for members to participate in an event to encourage pre-college outreach to children for science and engineering programs.


This is one way we develop the next generation of civil engineers.

On October 22, the Section is co-sponsoring a one-day seminar on Managing Project Risks with the Construction Institute of ASCE to be held at the Sheraton in Crystal City. The seminar will feature speakers on Dispute Resolution Methods, Delay Claims from the Owner and Contractor's Perspective, The Contract Change Clause—The Change Order Process, and Construction Reviews. A panel discussion will also be included to provide an open forum and discussion session. This is a great opportunity to hear best practices from experts in the industry on important topics to avoid construction claims

and change orders. The panel discussion will provide the experience and feedback from the presenters and local stakeholders on these important issues.

As the season gets off to a strong start, we look forward to increased member participation in the Section's activities this year. There are opportunities for participation in technical committees, section leadership, younger member activities, and volunteer programs. If you would like to get involved in ASCE, please contact myself or any Section officer.

Sincerely,



Mark E. Leeman, P.E.

Fairfax County Transportation: Vision and Challenges

continued from page 1

stations coming to Tysons in 2013, 75 percent of future growth will be within a half mile of these stations. Many offices and homes will be a three- to six-minute walk from the stations, allowing people to get around on foot, bicycle, bus or Metro.

The Section meeting will be held on **October 20, 2010 (a rare Wednesday date, rather than the usual Tuesday)**, at the Hyatt Regency, 2799 Jefferson Davis Highway, Arlington, VA 22202. This location is close to the Crystal City Metro Station, serviced

by the Blue/Yellow Line. Registration and networking will be from 6 p.m. to 6:45 p.m., with a buffet dinner starting at 6:45 p.m. The program will start around 7:30 p.m. One Professional Development Hour will be awarded to attendees. [Click here to register.](#) ■

NCS Position Openings

Communications Officer

Looking for a way to get involved in the leadership of the Section? ASCE-NCS has an opening for a communications officer. This position will assist the Board of Directors in communicating activities of the Section, working closely with the newsletter editor, committee chairs, and directors to inform the membership of upcoming activities and past accomplishments. Utilizing various media, including the website,

email, and other means, the communications officer will serve the Section by optimizing communication and services to members. Website management or webmaster abilities are essential. Please contact Mark Leeman at mark.leeman@feapc.com for more information.

Assistant Banquet Chair

In April 2011, the NCS will hold its annual awards banquet to honor the accomplishments of civil engineers in

the National Capital region. Planning and coordination for the 2011 event begins late in 2010. The assistant banquet chair will work with the Section's vice-president to coordinate the program, facility planning, awards, and event logistics. The time commitment is limited between January and April. If interested, please contact John Casana at casana_john@bah.com for more information. ■

Newsletter

L.J. Sauter, Jr., Editor
Telephone: 202-502-8205

November 2010 Issue Deadline:
October 18, 2010

To Submit Articles:
laurence.sauter@ferc.gov

Address Changes:
Call 1-800-548-ASCE, email member@asce.org, go to <http://www.asce.org>, or write: ASCE – Membership, 1801 Alexander Bell Drive, Reston, VA 20191. Remember to include your membership number.

National Capital Section

Officers (2010-2011)

Mark E. Leeman, President
703-591-4855
mark.leeman@feapc.com

John Casana, Vice President
703-377-8980
casana_john@bah.com

Qamar Kazmi, Treasurer
240-238-2203
qkazmi@schnabel-eng.com

Rollie Berry, Secretary
301-415-6119
rollie.berry@nrc.gov

L.J. Sauter, Jr., Newsletter Editor
202-502-8205
laurence.sauter@ferc.gov

David R. Dajc, Director
703-404-6363
david.dajc@fhwa.dot.gov

Christian Manalo, Director
703-377-1697
manalo_christian@bah.com

Stephen Powers, Director
703-417-0091
stephen.powers@mwa.com

Adam Stewart, YMF President
ncsymfpresident@gmail.com

Fady Afif, Past President
301-921-8231
afiff@bv.com

Fernando Pons, Past President
703-336-6203
fpons@haleyaldrich.com

Webmaster
(vacant)

Committee Chairs

Please refer to the NCS website at <http://www.asce-ncs.org> for a current list of NCS committees and chairs.

2010 ASCE Student Chapter and Faculty Advisor Contacts in the NCS

This year, the NCS has **three** new faculty advisors and **five** new Student Chapter presidents. The NCS Board of Directors has contacted the students to be sure they are aware of who we are, what we do (monthly meetings, committee meetings, activities), the tremendous opportunity available (to network, meet professionals to learn about the engineering field, job opportunities, etc.), and that they are WELCOME to contact and join us! We truly hope to see representatives of all the student chapters and their advisors on a routine basis. Please make them feel at home! ■

School	Faculty Advisor	ASCE Student Chapter President
Catholic University of America	Dr. George P. Mavroeidis mavroeidis@cua.edu	Patrick Terry 36terry@cardinalmail.cua.edu
George Mason University	Dr. Liza Durant ldurant2@gmu.edu	Moustafa Ibrahim Awad mibrahi4@gmu.edu
The George Washington University	Majid Manzari manzari@gwu.edu	Abraham Todd abetodd@gmail.com
Howard University	Dr. Claudia Marin cmarin@Howard.edu	Amy Moinet amoinet17@gmail.com
University of the District of Columbia	Dr. Pradeep Behera pbehera@udc.edu	Asteway Ribhiso asteway@comcast.net

ASCE NCS Awards Banquet

Award Nominations Now Being Accepted

The Annual Awards Banquet gives us the opportunity to recognize and celebrate local excellence in projects, engineers, and students who have contributed to our society and our community. Every year, the NCS presents a number of awards during its annual banquet. Recognized parties include our meritorious service award winners, outstanding civil engineering project, student scholarship award winners, and members of the NCS who have achieved Life Member status.

The Section award candidates are nominated by the Awards and Nominations Committee which actively seeks recommendations from NCS committees and members. All members are encouraged to submit, either by e-mail or traditional mail, the names of the members and/or projects for nomination for one of these awards. The awards are granted by the NCS Board of Directors and are given at the annual Section awards banquet held in the spring. These awards include: the Community Service Award, the Outstanding Civil Engineering Project Award, and the Meritorious Service Award.

Community Service Award

The Community Service Award recognizes outstanding contributions by an individual toward community improvement in the Washington metropolitan area. The nomination can be submitted directly by the individual or by another member on his/her behalf. The nomination shall briefly describe the achievements and contributions of time and talent toward a civil engineering-related activity that has furthered the welfare of the community within a three-year period preceding the award. The Awards Committee reviews and selects the winner for this year's award. The awardee will be notified and invited as an honored guest to attend the banquet and to receive the award—an engraved plaque, naming the individual and accomplishment.

Outstanding Civil Engineering Project

This award recognizes a local civil engineering project and is given when an engineering project in the National Capital area is deemed to demonstrate the greatest civil engineering skills and represents the greatest contribution to civil engineering progress. The project must have been substantially completed within the preceding three years. In granting the award, the Awards Committee considers the contribution to the well being of individuals, the resourcefulness in planning, the

solution of design problems, the pioneering use of materials and methods, innovations in construction, impact on the physical environment, unusual aspects, and aesthetic values. The possible adverse effects of the project are taken into account as well as the beneficial aspects. The award is made for uniqueness, contribution to the regional quality of life, and to recognize technical achievement. An award plaque is given, naming the project and the firms and/or agencies involved. The awardees are notified and invited to attend the banquet as guests to receive the award.

Meritorious Service Award

This award recognizes an individual member of the NCS who has made outstanding contributions to the work of the Section. The awardee must be an active member who has contributed significant time and talent to the Section and who sets a high standard of professionalism through service.

Please submit all nominations to Fady Afif no later than **January 7, 2011**.

Fady Afif, P.E.

Chair, Awards and Nomination Committee

Black & Veatch

18310 Montgomery Village Avenue,
Suite 500

Gaithersburg, MD 20879

afiff@bv.com ■

Invitation to Speak at the Society of Fire Protection Engineers' Seminar & Tradeshow

The Chesapeake Chapter of the Society of Fire Protection Engineers (SFPE) is developing an educational seminar program and looking for a civil engineer from a firm in the area who would be willing to provide a presentation on the topic of **seismic force resistance requirements**, with emphasis on requirements effecting the design and installation of interior building systems, (sprinkler, fire alarm, general MEP, and even structural considerations of general interest as part of the overall presentation, etc.). The Seminar & Tradeshow will be held in February 2011 at the Sheraton Washington North, near College Park, MD.

Benjamin Casey, P.E., Vice President and Outreach Chair for SFPE's Chesapeake Chapter has contacted

the NCS Board of Directors with this invitation, noting that an ASCE member's participation would generate tremendous interest for what is planned to be a major event for the Fire Protection Engineering Community in the National Capital Region and beyond (including areas of VA, WV, MD, DC, and even DE). Professionals from a number of different fields will provide presentations on a variety of issues affecting fire protection, but this year's most sought-after topic is seismic requirements, based on discussions with leaders of local Fire Protection Engineering Firms, the American Fire Sprinkler Association (co-sponsor and tradeshow industry representatives), as well as the Automatic Fire Alarm Association (co-sponsor and tradeshow

industry representatives). Participation is expected to advance the industry by providing valuable information, insight, and ideas for a topic that is typically not well understood within the fire protection community within this region. This year's event invitation is also being extended to a number of different A/E/C industry associations' membership as an even greater effort toward achieving the goal of better collaboration and communication between industry professionals at all levels and in all disciplines.

The SFPE Executive Committee will be finalizing the program details in the next few weeks, so interested individual should contact Benjamin Casey at bcasey@pegroup-inc.com as soon as possible to discuss this opportunity. ■

ASCE National Capital Section Geotechnical Executive Committee Short Course

Estimation of Rock Properties for Foundation Design

Presented by: Dr. Fred H. Kulhawy, P.E., G.E., Distinguished Member ASCE

The Subject and Course

Rock property estimation is fundamental to most of geotechnical design. On large projects with relatively generous budgets, the required field and laboratory tests can be conducted to evaluate the necessary geotechnical properties for design. For all other projects, testing will be more limited, and some properties will have to be estimated using correlations. Under the sponsorship of EPRI and others, significant research has been conducted at Cornell to assess rock property correlations in a realistic manner, including the uncertainty in each correlation. In addition, various classification systems have been developed that have become part of the evaluation process, for better or worse. All of these results are scattered widely in the literature.

In this short course, much of this technology is presented within a consistent, coherent, and practical framework so that one can build upon basic geologic knowledge to evaluate the rock mass and estimate its key properties. The general topics covered include the following: basic geologic issues, structural geologic features, rock drilling-core logging-RQD, geophysical exploration, the soil-rock boundary, in-situ stresses, rock mass

classification, characterization via Hoek and Brown, rock strength and deformation properties, and uncertainty in basic rock properties.

When: Tuesday, October 5, 2010

- 7 am to 8 am: Continental Breakfast and Registration
- 8 am to 5 pm Program

Where: Marriott Tysons Corner, 8028 Leesburg Pike, Vienna, VA, 22182 (703) 734-3200

Cost: \$375

Full-Time Students: \$175 (must show proof). A discounted rate of \$325 is available for firms registering four or more people.

Registration

Please register by September 24th by clicking [HERE](#) or calling Kellie Owens (703) 771-9844.

Payment must be made in advance and can be mailed to: Shana Opdyke, 10130 Old Frederick Rd., Ellicott City, MD 21042 (Payable to "ASCE NCS")

About the Speaker

Dr. Kulhawy is an internationally-acclaimed educator, consultant, and researcher, who has received numerous

prestigious awards for his work from ASCE, ADSC, CGS, IEEE, and others, including election to Distinguished Membership of ASCE, the ASCE Karl Terzaghi Award and Norman Medal, and the CGS Meyerhof Award. He is Professor Emeritus in Geotechnical Engineering and Geology at Cornell, and he has lectured widely, giving over 1300 presentations around the world. His teaching and research has focused on foundations, soil-rock-structure interaction, reliability, soil and rock behavior, and geotechnical computer applications. As a consultant, he has had extensive experience on six continents, with much of his experience dealing with foundation engineering and soil/rock property evaluation. In research, he has pioneered on many fronts, most notably with drilled foundations and property evaluation since the mid-1970s. His research and practice on these topics constitutes a majority of this course.

This course has been approved by the New York Board of Engineers.

Upon completion of the course, attendees will receive 7 Professional Development Hours. ■

Employers—Do you need Civil Engineers or Technicians? Employees—Are you looking for a Civil Engineering or Technician Position?

Use the “Employment Clearinghouse” of the American Society of Civil Engineers—National Capital Section

Free Announcements— Highly Select Readership

For a number of years, the NCS Employment Conditions Committee has sponsored a “Clearinghouse” feature in the monthly NCS newsletter. The intent is to assist public and private organizations in the Washington metropolitan area in obtaining civil engineering employees and engineering technicians, and to apprise the nearly 3,000 NCS members of employment opportunities.

Firms and public agencies (*bona fide* employers; employment agencies are not permitted to use the service) who have civil engineering positions available, and individuals seeking engineering employment, may submit requests using the submission form available through the contact information at the end of this article. There is no charge for this service. “Position Desired” announcements are restricted to ASCE members, civil engineering students,

and civil engineering technicians (such as draftsmen and surveyors). If you have no current need for this service, please keep the information on file for future use, or forward it to your personnel director.

Civil engineering or technician “Position Available” or “Position Desired” announcements, as presented by you (in accordance with the accepted standards indicated on the submission form), will be published in the monthly NCS newsletter on a “space-available” basis, and will be posted on the NCS website. The newsletter is published near the first of each month, September through May. Deadline for the “Clearinghouse” information is four weeks prior to publication. Each request will be published on a one-time basis; separate requests must be submitted for each additional insertion. Website postings will be kept on the site for sixty (60) days.

Please note that ASCE policy prohibits discrimination in employment. The “Clearinghouse” column will include the statement “All employers listed herein are equal opportunity employers.”

Articles will present the essentials only, the what, when, and where; avoid self-laudatory statements. Announcements should be brief (NCS reserves the right to edit), and all material submitted shall be in Arial 12–point font. E-mail submissions are preferred.

Contact the CLEARINGHOUSE at: Employment Conditions Committee, National Capital Section ASCE, 8502 Buckhannon Drive, Rockville, MD 20854-3503; phone: (301) 983-9777; fax: (301) 983-1953; or e-mail sassi22@verizon.net. ■

Walter Reed National Military Medical Center Project

Masood Shoyooe, P.E., F. ASCE, Project Director, BRAC Bethesda to Speak at November 30th Meeting in downtown DC location

This project is the largest single capital infrastructure development program ever undertaken in the military health system. It is being managed by NAVFAC OICC Bethesda and consists of:

- \$1B in construction projects over three years
 - Two major contracts, and several smaller contracts ranging from a few million to \$75M
 - Two million square feet of new construction and renovation
- BRAC 2005 Recommendation 169 requires the closure of the Walter Reed Army Medical Center (WRAMC) in Washington, DC while focusing on priorities such as improving inpatient services,



casualty care research, potential surge capabilities, and care for retirees. All tertiary (sub-specialty and complex care) medical services will be relocated to a new billion dollar facility, the National Naval Medical Center in Bethesda, Maryland. Upon completion of the project and relocation of the WRAMC, this center will be called Walter Reed National Military Medical Center. ■

ASCE-NCS Newsletter Patrons

HALEY & ALDRICH

7926 Jones Branch Drive
Suite 870
McLean, VA 22102
Tel: 703.336.6200
HaleyAldrich.com

20 offices nationwide

- Underground engineering
- Remedial investigations, design and construction
- Environmental management
- Brownfields reuse
- Sustainable design enhancement



NICHOLSON
VERSATILE GEOTECHNICAL CONTRACTORS

Mid-Atlantic District
12 McClane Street - Cuddy, PA 15031
Phone: 412-221-4500
www.nicholsonconstruction.com

- MICROPILES
- ANCHORS
- GROUTING
- AUGERCAST PILES
- SOIL NAIL WALLS
- SOIL MIXING
- DIAPHRAGM WALLS
- VIBRO TECHNOLOGIES



Joseph J. Doane, P.E.
President

Structural & Soil Systems, Inc.
8502 Buckhannon Drive
Rockville, MD. 20854-3503
(301) 983-9777

Engineered Problem Solving

MANAGING PROJECT RISK

Friday, October 22, 2010

Managing Project Risk Symposium

Friday,
October 22, 2010

Location:

Sheraton Crystal City
Arlington, VA.

(703) 486-1111

<http://www.sheratoncrystalcity.com/>

Registration Prices:

Member early bird:

\$275

Member: \$375

Non member early bird:

\$375

Non member: \$450

Early bird cutoff date:

Sept. 30, 2010.



CONSTRUCTION
INSTITUTE

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

ASCE
NATIONAL CAPITAL
SECTION

Best Practices for Dispute Avoidance and Management

The ASCE Construction Institute's Claims Avoidance and Resolution Committee presents a compendium of the Committee membership's best practices addressing:

- Constructability Reviews
- Contract Changes Clauses
- Delay Claim Management
- Dispute Resolution Methods

Construction projects are fraught with claims and change orders. Members of the Claims Avoidance and Resolution Committee, construction industry professionals whose work and experience focuses on pro-active dispute avoidance management, have compiled their years of experience to present a set of Best Practices for claims avoidance and resolution.

Constructability Reviews: An hour of prevention saves a month of delay. Presenter Ray Jenkins leads us through the committee's experiences of best practices of Constructability Reviews.

Contract Change Clauses: Using the Engineers Joint Contracts document, presenter Dan Becker of HDR Engineering, Inc. provides best practices of change management contract clauses and considerations.

Delay Claims: Understanding and managing project delays for both the Contractor and the Owner, including a hands-on, practical example. The committee's aggregated Owner and Contractor experiences presented by: Dennis MacBride of SEPTA, Craig Lindquist of CCS Group Inc.

Dispute Resolution Methods: The committee compares and contrasts the various construction industry practices for dispute resolution. Presented by subcommittee chair Chip Ossman of Ossman Project Management Consulting, Inc.

Panel Discussion: Harold McKittrick moderates a panel discussion on strategies to avoid claims.

For program agenda, presentation details, and speaker bios: <http://content.asce.org/conferences/ciriskman/program.html>

NCS Initiates Boundary Stone Fence Restoration Project

Overall, 34 Fences to be Examined for Restoration; Other Activities Planned over Next Several Years

On Saturday May 15, 2010, NCS volunteers embarked on the first step of many that will make up the Nation's Capital Boundary Stone Fence Restoration Project. There are currently 36 of the 40 original stones in place from Andrew Ellicott's 1791-92 survey of the 10-mile square that made up the boundaries of the original Federal City area. In 1915, the Daughters of the American Revolution (DAR) began a preservation campaign by placing iron fences around the historic stones to protect them. Grants for the use of land were made with the sponsoring of individual local DAR Chapters paying the sum of \$1 for permission to erect the fences around the stones. Arrangement were made with the Gichener Iron Works to install the iron fences measuring about 3-feet-by-3-feet and 5 feet high, with the corner posts to be set in concrete, at a cost of \$18 each. The four cornerstone fences were much larger (5 feet in diameter) and the cost of each of these was \$43. The Daughters completed the project by placing a bronze marker on each fence with the name of the DAR Chapter which paid for the fence and accepted responsibility for care of the stone.

Today, 28 of the original DAR fences exist, 6 replacement fences have been installed, and 6 of the stones/sites have no fences at all (either due to removal by landowners, damage from vehicles, or in the case of the South Cornerstone—never placed, given the stone is in a caged vault). Several of the original fences are in disrepair and one fence, at the Northeast Stone #3 (NE #3), is damaged beyond repair. Most, if not all of the fences, need to be restored.

ASCE-NCS chose the East Cornerstone Fence as the "kick-off" fence for the restoration project. This



fence was erected on April 15, 1916, by the District of Columbia DAR and was the 4th fence to be installed following fences at NW#4, NW#7 (now gone), and the North Cornerstone. The fence will be 95 years old in the spring of 2011, making it the 3rd oldest of all the fences in place. It is located approximately 50 yards east of the intersection of Eastern and Southern Avenues in NE Washington and Seat Pleasant, MD. Seventeen volunteers braved poison ivy to clear the immediate area and fence of overgrown vegetation, applied paint remover, stripped off the layers of old peeling paint, primed with rust inhibitor coating, painted the fence, and laid down mulch in the area. The effort started at 8:00 a.m. and was completed by 2:00 p.m. that afternoon. NCS provided coffee and donuts in the morning and a lunch of sandwiches, chips, Gatorade, and water. In addition to the fence restoration, the volunteers collected several garbage bags of trash as well as gathered up discarded furniture and debris that was scattered about the site. The experience gained and lessons-learned during the East Cornerstone fence restoration effort will assist NCS with future fence restorations.

Volunteers who participated in the East Cornerstone Fence restoration included Fady Afif, Matt Boyle, Carl Brady, John Costanzi, Vincent Costanzi, Bob Efimba, Andrew Fix, Mostafa Ibrahim, Matt Inkrott, Alicia Karwoski, Justin Nguyen, Maurile A O'Connor



IV, Maurile A O'Connor III, Zach Olin, Louise Pretzmen, Stephen Powers, Gabriel Stonebraker, Tim Summerall, and Rajul Terdesai.

ASCE-NCS plans to continue the Fence Restoration Project over the course of the next several years. Some fences (and some stones) are missing, and at least one will require re-dedication (SE #8). **The next volunteer effort is planned for the weekend of October 30, 2010** (weather permitting, of course). If you are interested in volunteering for this effort (or for a future effort) or want further information, contact Stephen Powers at stephen@designpowers.com. Information on this long-term project will be posted on the boundary stone restoration page on the ASCE-NCE website at http://asce-cs.org/index.php?option=com_content&view=article&id=23&Itemid=52. ■



National Capital Chapter

American Concrete Institute **NATIONAL CAPITAL CHAPTER** **OCTOBER MEETING ANNOUNCEMENT**

UPCOMING EVENTS

November 9:
Dinner Meeting
@ Tysons Corner

December :
Site Tour & Lunch
Tell us where you
would like to go!
E-mail
info@nccaci.org
with your
suggestion.

COMING SOON

Keep an eye out for
our new 2011
Membership Form
on the website.

Date: Tuesday, October 12, 2010

Time: 12 p.m. – 2 p.m.

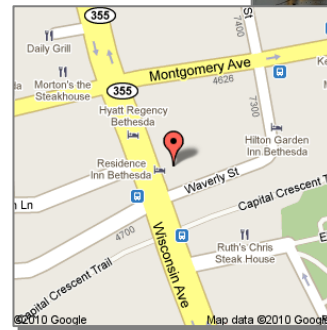
Program: *October Luncheon*

Larry Novak, Director of Engineered Buildings for the Portland Cement Association will give a presentation on the Burj Khalifa, the world's tallest man made structure, standing at over 2,717 feet. Mr. Novak served as lead structural engineer for the project with Skidmore, Owings, and Merrill.

Location: The Residence Inn
Downtown Bethesda
7335 Wisconsin Avenue
Bethesda, MD 20814

(Corner of Elm St. & Wisconsin Ave.)

RED LINE – BETHESDA



Registration: Please return this form or RSVP via e-mail to Katie Egan (katie.egan@clarkconcretellc.com or fax: 301/272-8500).

1)	Name	Company	E-mail	\$	Amount
2)	Name	Company	E-mail	\$	Amount
3)	Name	Company	E-mail	\$	Amount
4)	Name	Company	E-mail	\$	Amount
5)	Name	Company	E-mail	\$	Amount

Total Enclosed: _____

Payment: Pay at the door with cash or check.

Make checks payable to: ACI National Capital Chapter

Return form with check to: ACI National Capital Chapter
Attn: Katie Egan, CONC-4
7500 Old Georgetown Road, Bethesda, MD 20814
Clark Concrete Contractors, LLC
katie.egan@clarkconcretellc.com, fax: 301/272-8500, phone: 301/272-8369

Cost:	<i>Lunch</i>
Members	\$35
Non-members	\$40
Students/Faculty	Free

NCS Younger Members Compete in CANstruction 2010

It starts with one can—and ends with a masterpiece! Each year, teams of architects, engineers, and students across the country compete to design and build complex structures made entirely out of canned foods (not to mention an abundance of packaging tape). It takes several months of planning and thousands of cans to create a structure, but the results are astonishing. Once constructed, the canned creations are placed on exhibit for several weeks. During that time, the public is invited to contribute additional canned items, which are donated to local food banks and distributed to emergency feeding programs such as pantries and soup kitchens.

For this year's competition, a team of ASCE-NCS Younger Members gathered alongside other groups and organizations at 'The Shops at 1800 Pennsylvania Avenue' to recreate the China Central Television (CCTV) building and adjacent Television Cultural Center



(aka, the Mandarin Oriental Hotel). The CCTV building, known for its radical "double-Z" shape, was built using 760 mixed greens and tuna cans, while 340 cans of corn were used for the hotel. The unique architecturally "draping" façade of the hotel was formed by linking together 120 bags of yellow peas that were then draped over the cans.

The NCS Younger Member team, lead by several structural engineers, faced a considerable structural challenge with the CCTV building because the two towers act as cantilevers to support the overhanging cans. This was overcome by using an internal cable-stayed support system which helped distribute much of the load back to the base. While having only 6 hours to complete the competition, the team successfully constructed both buildings for the CCTV "can-campus."

The CANstruction event, hosted by the Washington Architectural Foundation, has helped collect more than 200 tons of food for the Washington, DC area in the last 10 years. The NCS would like to sincerely thank all of the individuals and organizations that contributed to the event, whether by donation or participation during planning and construction. Let's make next year just as successful! ■

(Editor's Note: This article was submitted by Jordan Pitt of NCS' Younger Members. Is your group or committee engaging in activities that would be of interest to the NCS membership? If so, submit a report (with photos) to the newsletter editor at laurence.sauter@ferc.gov, and share your upcoming activities or past accomplishments with the membership!)

ASCE-T&DI Schedules Green Streets & Highways Conference

First-of-a-Kind Gathering to be Held in Denver, November 14–17, 2010

In response to the rapidly growing interest and activity in sustainable transportation, ASCE's Transportation & Development Institute will convene a conference of practitioners to share information on leading-edge environmental stewardship and sustainability principles and practices. This event will bring together transportation engineers and planners, environmental analysts, conservation planners, landscape architects, and transportation policy-makers for a first-of-a-kind meeting in Denver.

The conference will start and end with professional development workshops on Sustainable Pavements (Sunday, 11/14), and Achieving Sustainable Watershed Protection through Innovative Stormwater Management, Asset Management and Sustainability, and Climate Change Adaptation Strategies for Infrastructure Managers (Wednesday, 11/17). There will also be an Exhibit Hall and two field trips focusing on (1) the Interstate Route 70 (I-70) Corridor between Denver and

Glenwood Springs, CO, and (2) the I-25 HOT Lanes, US Route 36, and Boulder Sustainable Improvements.

The conference will be held at the Renaissance Denver Hotel. Overall, attendees could earn up to 25 Professional Development Hours. For conference details and online registration, visit www.green-streets-highways.org. ■



2010 FALL PANEL DISCUSSION FUNDRAISER

Tuesday, October 19th, 2010 from 7:30-10am
Washington Convention Center, Meeting Room 101

FAQS

What is the Fall Panel Discussion?

The Fall panel is a gathering of prominent industry leaders to discuss current, pressing issues and events facing the Architecture, Construction and Engineering realm. The event also provides opportunities for local area university students in A/E/C studies to become informed of current events, as well as introduce them to business leaders and representatives of their future career aspirations.

Who is on the Panel of Speakers?

Moderator

Ken Vogel, (Retiring) Metropolitan Washington Airports Authority
Construction Manager, Dulles & Ronald Reagan National Airports

Panel

Kathy Barnes, Partner – Watt, Tieder, Hoffer

Bruce D'Agostino, Executive Director –
Construction Management Association of
America

Shapour Ebadi, Deputy Regional Commissioner
NCR – General Services Administration

Mo Hosseini, Division President – Clark
Construction Group

David Mongan – Past President, American
Society of Civil Engineers

Ronaldo “Nick” Nicholson, Chief Engineer –
District Department of Transportation

Bob Perry, Principal – AECOM

What is the dress code?

The dress code is business attire.

What is the Order of Ceremonies?

The event features networking breaks, a continental breakfast, Silent Auction, and Panel of Speakers.

May I just give a donation?

Yes – all donations are tax deductible. Complete our Donation Form at www.acementor.org/592.

What impact does my sponsorship have?

100% of funds help support the ACE DC's exciting new initiatives and mentor teams for the 2010-2011 Program Year:

- **ACE Mentor Teams active in twenty-two (22) area high schools**
 - **ACE Field Trips Initiative**
 - **ACE Internship Initiative**
 - **Additional scholarships**

Should you wish to register or sponsor the event, please submit our Sponsorship Form or visit the Online Registration found at www.acementor.org/592

ACE Mentor Program of the Greater Washington Metropolitan Area, Inc.
a 501c3 organization – Federal Tax Identification Number 52-2336830

1401 New York Avenue, NW, Suite 900 · Washington, DC 20005 · P:202.577.3028 · F:202.347.1489 ·
tgrantdcaffiliate@acementor.org · www.acementor.org/592

Positions Available

Director—Federal Markets. Gannett Fleming, Inc., Washington, DC, seeks a Director of Federal Marketing. Duties include planning the Federal Markets Program; identifying new business opportunities; understanding and responding appropriately to customer requirements in order to secure awards; managing competitive assessments and developing strategies; and mitigating corporate risk and liability.

The candidate must have 15–20+ years of professional experience in engineering, program management, or management consulting services to the federal government; experience in identifying and leading \$1M+ opportunities; strong closing skills and a proven track record; a consultative approach to customer relationship management; the ability to manage resources from multiple groups to meet client needs; an executive presence with CXO-level, program office, and/or senior command positions;

outstanding written, verbal, presentation, and negotiation skills; strong PC skills including use of web-based CRM software, Word, Excel, PowerPoint, and Outlook; and a bachelor's degree in Business, Engineering, or a related field. An MBA, MS, or other advanced degree is preferred, and a military background is a plus.

The successful candidate must function as the leader for identifying new business opportunities, best matching the full spectrum of the firm's architecture, engineering and technology solutions; must have an understanding of the customer requirements in order to build and communicate the customer-specific capture strategies, structure and build the pursuit teams, and develop and guide the proposal framework and content leading to successful awards; ability to manage competitive assessments, develop teaming and solutions strategies, and build meaningful relationships to deliver Gannett Fleming messages and visibility to

key customer stakeholders; and must possess the capability to think and act strategically and mitigate corporate risk and liability.

Interested candidates may apply for the above position at <http://www.gfnet.com/careers-details.aspx?ID=11355>.

The ASCE-NCS provides the Employment Clearinghouse as a free service to its membership. The Clearinghouse allows members to post short notices for available positions or candidates seeking employment. All employers listed herein are equal opportunity employers. If you have questions or would like to post a position, please contact the Employment Conditions Committee, National Capital Section ASCE, 8502 Buckhannon Drive, Rockville, MD 20854-3503; phone: (301) 983-9777; fax: (301) 983-1953; or e-mail sassi22@verizon.net.

Don't Miss the First USA Science & Engineering Festival Expo October 23 & 24, 2010 on the National Mall and Surrounding Areas—Free of Charge

Imagine chatting with Albert Einstein, building an underwater robot, managing cargo in the space shuttle or watching a science magician. These are just a few of the over 1,500 interactive exhibits and stage shows planned for the first USA Science & Engineering Festival Expo, October 23-24, 2010, on the National Mall and surrounding areas.

Bring your whole family and give your future and current scientists the experience of a lifetime. The Expo has something for everyone and includes:

- the science behind TRON and other Hollywood movies, baseball,

superheroes, Thanksgiving dinner, NASCAR, the mathematics of speed jump roping, and much more;

- fifty stage shows featuring science musicians, comedians, rock stars—even the Redskins cheerleaders are creating a support for science cheer; and
- more cool science and engineering exhibits than you can even imagine.

Be sure to check out ASCE's booth located on Pennsylvania Avenue NW between 13th and 14th Streets. Clemson University's Concrete Canoe team will

be on hand to talk about their canoe and its design. Kids of all ages will be able to build boats and try their hand at "Fliker" to explore the concepts of floatation and buoyancy.

Visit the official Festival website to view all exhibit and stage shows, download a map of the Expo grounds, and view the entire Festival Calendar at www.usasciencefestival.org. ■

Upcoming Events

Tuesday, October 5

NCS Geotechnical Committed hosts an all-day short course on Estimation of Rock Properties for Foundation Design at the Marriott Tysons Corner in Vienna, VA. Register by September 24 by clicking [HERE](#) or calling Kellie Owens at (703) 771-9844. (See newsletter article.)

Wednesday, October 6

YMF Happy Hour at the Capital City Brewing Company, 1100 New York Avenue NW, Washington, DC. No RSVP needed; e-mail [Sonja Hinish](mailto:Sonja.Hinish) with questions or click [HERE](#) for additional information.

Tuesday, October 12

American Concrete Institute National Capital Section October luncheon featuring a presentation on the Burj Khalifa (the world's tallest man-made structure) by Larry Novak, the lead structural engineer for the project. (See flyer elsewhere in newsletter.)

Tuesday, October 19

ACE Mentor Program hosts a Fall Panel Discussion. Panel will include industry leaders from Clark Construction, AECOM, Metropolitan Washington Airports Authority, District Department of Transportation, ASCE, and the Construction Management Association of America discussing issues and events facing the architecture, construction, and engineering realm. This fundraiser will be held from 7:30 to 10:00 a.m. For more information and to register, please visit www.acememtor.org/592. (See flyer elsewhere in newsletter.)

Wednesday, October 20

NCS monthly meeting featuring Chairman Sharon Bulova of Fairfax

County's Board of Supervisors, speaking on transportation and infrastructure spending in times of reduced funding. A rare **Wednesday** meeting at the usual location: the Hyatt Regency, 2799 Jefferson Davis Highway, Arlington, VA 22202.

Friday, October 22

ASCE's Construction Institute's Claims Avoidance and Resolution Committee will present a day-long compendium of the committee memberships best practices at the Sheraton Hotel in Crystal City. Registration will begin at 8 a.m., with the program starting at 8:45. A buffet lunch is scheduled for noon until 1 p.m. The Sheraton is located at 1800 Jefferson Davis Highway in Arlington, VA. Take the Yellow/Blue Line to the Crystal City Metro Station, or park at the Sheraton for \$15. Contact Fady Afif at afiff@bv.com for additional information. (See flyer elsewhere in newsletter.)

Saturday-Sunday, October 23-24

USA Science and Engineering Festival on the National Mall in Washington, DC. ASCE is looking for volunteers. Over 1,500 interactive exhibits and stage shows appropriate for the whole family. (See newsletter article.)

Sunday-Thursday, October 24-28

American Concrete Institute's Fall Convention: Westin Convention Center Hotel and David L. Lawrence Convention Center, Pittsburgh, PA. Register at (248) 848-3800 or www.aciconvention.org (until October 3). Convention preview brochure at <http://www.concrete.org/Convention/Fall-Convention/Front.asp>. (See flyer elsewhere in newsletter.)

Saturday October 30

Volunteers needed to assist with the NCS Boundary Stone Fence Restoration Project. Contact Stephen at stephen.powers@MWAA.com. (See newsletter article.)

Thursday, November 18

The Association for the Advancement of Cost Engineering International will hold a dinner meeting with speakers focusing on LEED Basics and Implementing LEED at the Ronald Reagan Building in Washington, DC. Networking will begin at 5:00 with the first talk beginning at 5:30 p.m. This will be followed by an intermission with light dinner and the second talk at 7:00 p.m. Cost is \$40. Please send an e-mail to dan.melamed.dc@gmail.com before close of business on Monday, November 15 to confirm attendance. (Watch for more information in the November newsletter.)

Tuesday, November 30

NCS monthly meeting featuring Masood Shoyooee, Project Director, BRAC Bethesda, speaking on the Walter Reed National Military Medical Center Project at the Hyatt Regency in Arlington. (See newsletter brief and watch for more information in the November newsletter.)

Monthly, Starting November 30

ASCE-LEAD Program (Leader Education and Development Program). Opportunities to grow as a leader. Contact Melissa at mprelewicz@asce.org.