

## Dr. Wayne Clough, Smithsonian Secretary, to Deliver a Sustainability Lecture at the 5th Annual ASCE NCS Sustainability Awards

March 23, 2010

### Program

5:30pm Registration  
6:15pm Dinner Begins  
6:30pm Sustainability Award Presentation Program  
7:30pm Sustainability Lecture  
8:30pm Program Ends

MP3 Insights, Perspectives from Civil Engineering Leaders <http://insights.asce.org/index.php?id=5>

### 2010 Sustainability Award

The fifth annual presentation of the ASCE-NCS Sustainability Award will recognize sustainable development of infrastructure, the built-environment and the conservation of natural resources in the DC metro area.

### 2010 Sustainability Lecture/Keynote

**Dr. Wayne Clough, P.E., Dist. M.ASCE.** Secretary, Smithsonian Institution (with introduction from ASCE President Blaine Leonard)

Wayne Clough is the 12th Secretary of the Smithsonian Institution, leading the world's largest museum and research complex with 19 museums, nine research centers, the National Zoo and research activities in more than 90 countries.



Photo Courtesy of Carl Hansen, Smithsonian Institution

**Renaissance Washington DC Hotel**  
999 9th Street NW,  
Washington DC

**NEW LOCATION**

Clough, 67, envisions a new era for the 162-year-old Institution, expanding the Smithsonian's global relevance and helping our nation shape its future through research, education and scientific discovery on major topics of the day. He has initiated long-range planning for the Institution that will define the Smithsonian's focus for the future.

Ensuring that the Institution's vast collection is accessible and available to everyone is also a priority for Clough. He has already put plans in motion to digitize much of the Smithsonian's 137 million objects in the collection: Each object will be digitally photographed or scanned and accompanied on the Web by curatorial content from Smithsonian experts.

Since Clough began as Secretary in July 2008, he has overseen several major openings at the Smithsonian, including the Sant Ocean Hall at the National Museum of Natural History and the reopening of the National Museum of American History.

Before his appointment to the Smithsonian, Clough served as president of the Georgia Institute of Technology for 14 years. He received his bachelor's and master's degrees in civil engineering from Georgia Tech in 1964 and 1965 and a doctorate in 1969 in civil engineering from the University of California, Berkeley.

Clough has been a professor at Duke University, Stanford University and Virginia Tech. He served as head of the department of civil engineering

and dean of the College of Engineering at Virginia Tech, and as provost at the University of Washington.

The Georgia Tech campus served as the Olympic Village for the 1996 Centennial Olympics while Clough was president. Research expenditures increased from \$212 million to \$425 million and student enrollments from 13,000 to 18,000. More than one-and-a-half billion dollars was raised in private gifts, and campus operations were opened in Savannah, Ga., Ireland, Singapore and Shanghai.

Clough completed a building program of more than \$1 billion that incorporated sustainable design. Georgia Tech was also ranked among the top 10 public universities by U.S. News and World Report during Clough's tenure. The publication *Diverse Issues in Higher Education* cited Georgia Tech as the top producer of African American engineers, and *Hispanic Business Magazine* named the school among the top institutions for study by Hispanic students.

In March 2009, Clough was inducted into the Technology Hall of Fame of Georgia, which was established in 1993 to recognize the achievements of outstanding members of Georgia's technology community. In February 2009, he received the Joseph M. Pettit Alumni Distinguished Service Award that recognizes a lifetime of leadership, achievement and service to Georgia Tech. Clough received nine national awards from the American Society of Civil Engineers, including the 2004 OPAL lifetime award for contributions to education. He is one of 14 civil engineers to have been twice awarded civil engineering's oldest recognition, the Norman Medal, in 1982 and in 1996. He received the George Westinghouse Award from the American Society of

*continued on page 2*

## 4th Annual Sustainability Lecture and 5th Annual ASCE-NCS Sustainability Award

continued from page 1

Engineering Education in 1986 for outstanding teaching and research. In 1990, he was elected to the National Academy of Engineering, and in 2008 was recognized with the NAE Bueche Award for his efforts in public policy. He was awarded the 2002 National Engineering Award by the American Association of Engineering Societies and in 2004 was named as a Distinguished Alumnus from the College of Engineering at U.C. Berkeley.

Clough currently serves as a member of the National Science Board and as chair of the National Research Council Committee on New Orleans Regional

Hurricane Protection Projects. He served on the President's Council of Advisors on Science and Technology (2001-08) and as co-chair of the 2004 National Innovation Initiative and University vice chair of the U.S. Council on Competitiveness; he chaired the Engineer of 2020 Project for the NAE and served as a member of the National Governors Association Innovate America Task Force (2006-07).

Georgia Gov. Roy Barnes appointed Clough chair of the Blue Ribbon Natural Gas Task Force; Atlanta Mayor Shirley Franklin made him chair of her Clean Water Advisory Panel. He served on the

boards of Noro-Moseley Partners, TSYS Corp. and the International Advisory Board of King Fahd University of Petroleum and Minerals.

Clough's interests include science, technology and higher-education policy, sustainability, international programs, museums and history. His civil engineering specialty is in geotechnical and earthquake engineering. He has published more than 130 papers and reports and six book chapters and has co-written numerous committee reports. Clough was born in Douglas, Ga., Sept. 24, 1941. ■

## ASCE President Blaine D. Leonard, P.E., D.GE, F.ASCE to Speak at NCS Annual Banquet April 20

Please save the date of this year's NCS Annual Awards Banquet: Tuesday April 20th. This annual event is the highlight of the year, and we are honored to have ASCE President Blaine Leonard as our keynote speaker this year. The event also gives us the opportunity to recognize and celebrate local excellence in projects, engineers, and students who have contributed to our society and our community. Recognized parties will include our meritorious



service award winners, student scholarship award winners, and those individuals who have achieved Life Member status.

To give everyone a taste of things to come, the following is a summary of Blaine Leonard's speech. "Our future poses some daunting and complex challenges, as a society,

and as engineers. What will our role be, and how will we prepare for the future? Civil engineering leaders, assembled by

ASCE, have begun to answer that question, and have posed a vision for the civil engineer of 2025. As we map out a strategy for the change necessary for our success, we envision transformation in areas of education and re-education, research and innovation, public policy and responsibility, and leadership. Having this shared understanding of how we will get to the future will allow us to unite in achieving the vision of who we will be and in determining our own destiny."

Again, please join us on April 20th for the ASCE National Capital Sections Annual Banquet. Final details will be provided in the April Newsletter. ■

## Thank You for Attending the Infrastructure Security and Preparedness: Transportation, Water, Energy

ASCE-NCS convened an expert panel of security and emergency preparedness professionals to explore the issues and challenges faced by different sectors of our nation's critical infrastructure. The speaker panel was held on the evening of February 16 in Crystal City and was attended by over 70 members and guests. The event profiled segments within different sectors of critical infrastructure, including transportation, water and energy, and was organized and moderated by Mr. Christian Manalo, Associate at Booz Allen Hamilton. Panelists included: Mr. Ernesto Acosta, Transportation Security Specialist for the Transportation

Security Administration; Mr. Kevin Morley, Security and Preparedness Program Manager for the American Water Works Association; and Mr. William Gott, Chief of Operations Branch, Nuclear Regulatory Commission, Office of Nuclear Security and Incident Response. Commonalities in the challenges faced by the different organizations were identified, and information was shared on the approaches taken to overcome these challenges. Also discussed were the means by which the civil engineering community can further advance security and preparedness associated with critical infrastructure. ■

### Newsletter

#### Rollie Berry, Editor

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**April 2010 Issue Deadline:  
March 15, 2010**

#### To Submit Articles:

Email: [Rollie.Berry@nrc.gov](mailto:Rollie.Berry@nrc.gov)

#### Address Changes:

Call 1-800-548-ASCE, email [member@asce.org](mailto:member@asce.org), go to [www.asce.org/myprofile/](http://www.asce.org/myprofile/), or write: ASCE – Membership, 1801 Alexander Bell Drive, Reston, VA 20191. Remember to include your membership number.

## Future Volunteer Opportunities

### Volunteers Needed for Technology Student Association

The Technology Student Association (TSA) is seeking judges for their regional and state fairs to be held in March and April 2010. The TSA is a student organization of over 150,000 high school and middle school students interested in technology. TSA members enhance their classroom experience competitive events and conferences.

A TSA regional fair will be held at Colonial Forge High School in Stafford County on March 6 from 8:00 a.m. to 5:00 p.m. Middle and High School students will have the chance to compete in thirty-two events at the regional level in which only the top three finishers will advance to the statewide competition (Technosphere). Some of the events include: Imaging technology, graphic design, essay writing, prepared and extemporaneous presentation, dragster design, CAD and engineering design.

Colonial Forge High School is at 550 Courthouse Road, Stafford, Virginia 22554.

The TSA State fair will be held at the Sheraton Premiere Tysons Corner in Fairfax County April 23-25. All of the TSA events (about 60) will be competed at the state level (team and individual competitions) in addition to the competitions at the regional level there are also team competitions including: chapter team (parliamentary procedure) problem solving, structural engineering, technology dare, systems control technology, debating technology issues, cyberspace pursuit, electronic game design, agriculture and biotechnology, medical, and SciViz. The competitions begin Friday night and end with an awards ceremony on Sunday morning. In addition to the competitions there are mandatory general conference sessions for Virginia TSA.

The goal of the Northern Regional Fair and Technosphere is to expand TSA member's classroom knowledge of technical concepts and translate that new knowledge to real world applications, in turn learning the value of teamwork and leadership. The theme for this years TSA conferences is "TSA: Tomorrow's Leaders"

National Capital members and friends interested in volunteering or obtaining more information should contact TSA Secretary Angela Roller at [aroller2828@hotmail.com](mailto:aroller2828@hotmail.com), phone (703) 263-1424.

### GMU Engineering Topics Course

The Lifelong Learning Institute at George Mason University is now offering an Engineering Topics course, taught primarily by retired engineers, but including some practicing engineers. The topics are as varied as the field of engineering. If you would like to make a presentation as a part of this course, you should contact Palmer McGrew [palmermcg@aol.com](mailto:palmermcg@aol.com). Engineering classes are taught on Mondays from 2 to 3:30 during three of the four semesters. Although there is no payment for this volunteer activity, your audience will be interested and appreciative.

### Girl Scout Day at the National Building Museum In Washington, DC on April 17th

Volunteers are needed from the National Capital Section to help Girl Scouts build suspension bridges using straws, tape and string



at the National Building Museum in Washington on Saturday, April 17th.

A NCS leader is needed along with several volunteers to hand out supplies to the Girl Scouts and most importantly, test the bridges by applying a static load of text books.

Contact Dean Westman or Fady Afif regarding the upcoming event at: [dwestman@wralp.com](mailto:dwestman@wralp.com), [AfifF@bv.com](mailto:AfifF@bv.com) for additional information. ■

### ASCE-NCS Newsletter Patrons

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### CD Course for PE Exam

YMF has obtained PE Review DVD. Contact Jordan at [wjpitt@lpagroup.com](mailto:wjpitt@lpagroup.com). ■



**Joseph J. Doane, P.E.**  
President

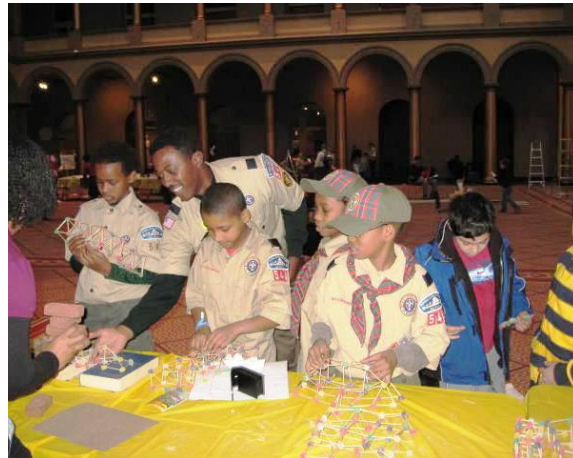
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Engineered Problem Solving

## Thank You to Our Volunteers

### Cub Scout at the National Building Museum

A number of volunteers took part of Cub Scout Day at the National Building Museum on January 30, 2010. Even the snow storm that dumped some 3-6 inches in Washington DC area couldn't deter the cub scouts from participating in the toothpick bridge activity that ASCE-NCS put together. They enjoyed the event! Dean Westman who organized and managed the activity was helped by the following volunteers: Vanessa Aririguzo, Tim Garland, Richard Kenney, Joseph Klein, Steve Paska, and Andrea Putscher.



### Discover Engineer Family Day 2010 at the National Building Museum

Volunteers from the National Capital Section participated in the National Building Museum's 10th annual Discover Engineering Family Day. Discover Engineering Family Day is the capstone of the 2010 Engineers Week



(February 14 through February 20) celebration.

Thousands of families visited the NBM to view engineering oriented exhibits and demonstrations and participate in family oriented hands-on activities including National Capital Section's "Paper Table" activity. Aspiring young Engineers and Architects, and their parents built small tables out of newspapers and masking tape. Newly constructed tables were static load tested with engineering text books.

Newspapers and tape were provided by the American Society of Civil Engineers World Headquarters in Reston, Virginia. Paper Table concept provided to NCS by Design Squad, the Emmy Award winning television program produced by WGBH, Boston.

Special thanks to NCS event leader Emily Dean.



Thanks to all NCS volunteers: Jordan Pitt, Sarah Steele, Tim Garland, Emily Dean, Jesus Ranon, Dean Westman, Adam Stewart, Kirin Smith, Kevin Thomas, Laurence Sauter, Charu Gupta, Joan Buhman, Joey Gupta, Rigni Gupta, Andrea Putscher, Sara DeGroot, Mike Magyarics, Vanessa Aririguzo, and Pete Bowen. ■

## Continuing Education Now Required for Virginia Professional Engineers

The Virginia Department of Professional and Occupational Regulation (DPOR), Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and landscape Architects (APELSCIDLA Board) has promulgated new regulations requiring registered professional engineers to obtain 16 hours of continuing engineering education credit hours during each 2-year professional engineer license registration cycle.

Engineers renewing licenses or applying for reinstatement after March

31, 2010 will be required to comply with the new continuing education requirements. Individuals are required to complete at least 16 continuing education credit hours of approved education activities for any license renewal or reinstatement. Licensed Engineers must maintain records of completion of with the new requirements for a period of 3 years. Engineers will be required to provide records of continuing education to the Board upon request.

Most of the monthly meetings sponsored by the National Capital Section

fully meet the requirements of continuing education for renewal or reinstatement under 18VAC10-20-683-C. A certificate attesting to attendance at an education event equal to 1 Continuing Education Unit will be given at NCS monthly meetings.

See the new DPOR regulations at [http://www.dpor.virginia.gov/dporweb/ape\\_reg.pdf](http://www.dpor.virginia.gov/dporweb/ape_reg.pdf) for more information. ■

# 2010 ACE Scholarship Awards Breakfast

Hosted by the ACE Mentor Program of the Greater Washington Metropolitan Area, Inc.

Wednesday, April 21, 2010, 8:00 to 10:00 am, Historic Lobby of Ronald Reagan National Airport, Washington, DC

**Keynote Speaker:** Robert A. Peck, Commissioner, GSA Public Buildings Service.

Our annual Scholarship Awards Breakfast recognizes high school students with outstanding academic achievement; as well as encourages the advancement of higher education in the built environment. The scholarships awarded reward those students possessing academic dedication and the drive to succeed in the Architecture/Engineering/Construction industry with scholarships to continue on in their studies at a two or four year college.

The event also spotlights corporations, foundations and individuals who have made significant contributions to ACE through sponsorship of the awards breakfast. Attendees can expect a phenomenal Keynote Speaker and a silent auction.

The breakfast draws roughly three hundred guests from A/E/C industry corporations and businesses. ACE supporters, local-area educators, scholarship awardees and parents will also be in attendance.

The amount of funds raised determines the number of scholarships awarded. To date, we have awarded

\$272,000 in scholarships to 84 promising graduates. Universities that our students have been accepted into include such technical institutes such as Carnegie Mellon and Purdue University—and prestigious Ivy Leagues Dartmouth and Harvard—as well as local area community colleges and state universities.

## Tickets and Sponsorship Opportunities

Visit [www.acementor.org/592](http://www.acementor.org/592)

Tickets: \$160.00 per person, or tables of 10: \$1,500.00–\$10,000

Contact: [Washingtondc@acementor.org](mailto:Washingtondc@acementor.org)

## About the ACE Mentor Program, Washington, DC

ACE is an acronym for architecture, construction, and engineering. It is a unique partnership among industry professionals, college and university representatives and professional organizations throughout the Greater Washington Metropolitan Area. The ACE Mentor



Program is a nonprofit organization whose mission is to enlighten and increase the awareness of high school students to career opportunities in architecture, construction and engineering—as well as other related areas of the design and construction industry—through mentoring and scholarship awards. The program makes a special attempt to reach students of all demographics; and those currently underrepresented in the industry.

For more information, or for inquiries on how to become involved, contact Executive Director Trisha Grant, LEED AP at [tgrantdcaffiliate@acementor.org](mailto:tgrantdcaffiliate@acementor.org) and/or 202.577.3028. Or visit [www.acementor.org/592](http://www.acementor.org/592). ■

## Employment Clearinghouse

**CAD Draftsman/Designer**—with 24 years experience in Structural drafting and 5 years experience in Architectural drafting, seeks full time job in Montgomery Co., DC Metro area, or Frederick Co. Experienced in AutoCad, Revit, and Microstation. Available immediately. Email Fred Edelstein at [Fredelstein@comcast.net](mailto:Fredelstein@comcast.net) or write: 9920 Killarney Ln., Gaithersburg, MD 20877. Phone (301) 330-1570 (please leave msg).

**Civil Engineer**—a PhD student in The Catholic University of America “Construction Engineering and Management program.” Seek private or municipal position in northern Virginia area. Phone (703) 462-3663, [aaljabhan@gmail.com](mailto:aaljabhan@gmail.com)

**Office Manager**—Bohler Engineering is looking to fill an Office Manager position, if interested please contact Ginger Greunke ([ggreunke@bohlereng.com](mailto:ggreunke@bohlereng.com)).

**Structural Engineers**—HDR is currently in need of a Structural Engineer to work as a member of our Alexandria, VA office. This individual will be expected to lead structural design efforts for vertical projects. This will involve traditional structural design work, cutting building sections, and helping to oversee the work of junior engineers and CADD technicians. This person will also be expected to prepare calculations, specifications, and notes for design, and then file and organize them in a coherent fashion. If interested

please contact Matthew A. Memberg, P.E. (Phone: 703.518.8500 Main | 703.518.8624 Direct Email: [matthew.memberg@hdrinc.com](mailto:matthew.memberg@hdrinc.com)).

*The ASCE-NCS provides the Employment Clearinghouse as a free service to its membership. The Clearinghouse allows members to post short (100 word maximum) notices for available positions or candidates seeking employment. If you have questions or would like to post a position, please email [Rollie.Berry@nrc.gov](mailto:Rollie.Berry@nrc.gov).*

*By submitting a “Position Available” notice, all employers are certifying that they are equal opportunity employers.*

# Opportunity To Be on the Executive Board of the ASCE National Capital Section

## Attention writers (or at least members with computers and interest):

The term for the ASCE Newsletter Editor is two years and, thus, unfortunately, the time is coming for me to relinquish my role. My final issue as Newsletter Editor will be the May 2010 issue. The new Editor will begin with the September 2010 issue.

The responsibilities of the Newsletter Editor include collecting articles and columns on a monthly basis during

the ASCE calendar year, coordinating with the NCS President in preparing the President's Corner, and furnishing new ideas for articles and creative ways of publishing events and relevant industry trends impacting civil engineering. As part of the executive board, you will also attend board meetings, assist in choosing relevant speakers, and attend member events as a representative of the board.

The reason I am soliciting a protégé this far out is for ease of transition and

knowledge management. It would be in the best interests of both the preceding and succeeding Editors to have a little overlap. To this end, I would like to bring a new Editor on board sometime this spring to begin the turnover to facilitate a smooth transition. If you are interested, or know anyone who would be interested, please contact me. Thank you, Rollie. ([Rollie.Berry@nrc.gov](mailto:Rollie.Berry@nrc.gov) or 301-415-6119) ■

## President's Corner

As Mahatma Gandhi said: "I shall pass through this world but once. Any good therefore that I can do or any kindness that I can show to any human being, let me do it now. Let me not defer or neglect it, for I shall not pass this way again."

February was a busy month with a number of volunteering opportunities, including Family Day during Engineer's week, Girl Scout Stem (Science-Technology-Engineering-Math) Career Day at the National Museum of Natural History, Future City Competition. I want to thank everyone who has and continues to volunteer their time. If you have not yet taken part in some of these events, it's not too late! There are a number of

volunteering opportunities in March and April; please see the newsletter for details. Additionally, in February, since ASCE-NCS is a member of District of Columbia Council of Engineering and Architectural Societies (DCCEAS), a number of ASCE-NCS members attended the Engineers' & Architects' Day Luncheon and the Awards Banquet. Thanks to ASCE-NCS past presidents Khaled Alamdeen and Dr. Robert Efimba for continuing to be active with DCCEAS. ASCE-NCS was well represented at the luncheon and dinner banquet.

Now that February snow storms are behind us, we are impatiently awaiting our March meeting which will be about sustainability. In this meeting, the fifth

sustainability award will recognize a sustainable development of infrastructure, the built-environment and the conversation of natural resources in the DC metro area. Also, in this meeting Dr. Wayne Clough, Secretary of the Smithsonian Institution will deliver the Sustainability Lecture with introduction from ASCE President, Blaine Leonard. We hope that you will be able to participate in this upcoming event which will be held at a unique location, the Washington Renaissance DC Hotel. One continuing engineering education credit hour will be offered (for Virginia professional engineers, this is one hour towards the 16 hours required to renew your license).

Fady

## Calendar of Events

### Tuesday, March 23

**ASCE-NCS March Section Meeting.** 5:30 to 8:30pm, Renaissance Washington DC Hotel. Sustainability Award and Lecture. Keynote Speaker: Dr. Wayne Clough, Secretary of the Smithsonian. \$45 (non-students); \$20 (full time students). Contact John at [casana\\_john@bah.com](mailto:casana_john@bah.com) or Fernando [FPons@haleyaldrich.com](mailto:FPons@haleyaldrich.com). Click [here to register](#).

### Tuesday, April 20

**ASCE-NCS April Awards Banquet.** 6pm to 8:30pm, Hyatt Regency, Crystal City, VA. \$40 (non-students); \$20 (full time students). Contact Mark at [Mark.Leeman@feapc.com](mailto:Mark.Leeman@feapc.com).

### Wednesday, March 3

**ASCE-NCS YMF March Happy Hour.** 6:00pm at Ri Ra Irish Pub. Contact Marcus at [mcherundolo@gmail.com](mailto:mcherundolo@gmail.com). Next Happy Hour is

Wednesday, April 7, at Capitol City Brewing Company in DC.

### Monday, March 8

**Federal Agency Water Resource Initiatives Panel.** 5:30pm to 8:30pm, AWRA-NCRS, Capitol Visitors Center. Contact Betsy at [bcody@crs.loc.gov](mailto:bcody@crs.loc.gov).

### Monday, March 8

**Award Nomination Deadline: 2010 ASCE-NCS Sustainability Award.**

Check <http://asce-ncs.org> for information or contact John at [casana\\_john@bah.com](mailto:casana_john@bah.com).

### Saturday, March 13

**Girl Scout Day at the Air and Space Museum, Chantilly VA.** Volunteers needed for the exhibit booth. Contact Pamela Bingham, 301-661-2061, [pamelabingham@gmail.com](mailto:pamelabingham@gmail.com).

### Monday, March 17

**Award Nominations Deadline: Community Service Award, Outstanding Civil Engineering Project, Meritorious Service Award for the 2010 ASCE-NCS Annual Banquet.** Check <http://asce-ncs.org> for information or contact Fernando [FPons@haleyaldrich.com](mailto:FPons@haleyaldrich.com).