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Government Relations Chair:
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Richmond Branch - ASCE
www.ASCERichmond.org

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CONGRATULATIONS TO THE RICHMOND BRANCH NEW LIFE MEMBERS

Class of 2012

Mr. J Ashley Williams P.E., M.ASCE
Mr. John Jordan P.E., M.ASCE
Mr. Edgar J Beamon P.E., M.ASCE
Mr. John G Durant III P.E., M.ASCE
Mr. Roger Joseph Cronin P.E., M.ASCE
Mr. Darryl K Brogan P.E., F.ASCE
Mr. Sisir K Mukherji P.E., M.ASCE

Class of 2011

Mr. Donald Barici P.E., M.ASCE
Mr. Michael O Noggle P.E., M.ASCE
Mr. Michael Ray Foster P.E., M.ASCE
Mr. John L Robertson P.E., M.ASCE
Mr. John W Bell P.E., M.ASCE
Mr. Donald Edwin Burgess P.E., M.ASCE
Dr. Richard M Simon Ph.D., P.E., D.GE, F.ASCE
Mr. Clifford M Robinson Jr. P.E., M.ASCE
Mr. Charles E Sorrell P.E., M.ASCE
Mr. Donald Ray Vaughan P.E., M.ASCE

Class of 2010

Mr. Berry F Wright Jr. P.E., M.ASCE
Mr. Virgil R Hazelett P.E., M.ASCE
Dr. Robert Morell Sexton P.E., M.ASCE

**JOIN US IN CELEBRATION OF THESE LIFE MEMBERS AND
APPRECIATION OF YOUR MEMBERSHIP AT OUR EVENT ON MAY 9TH**
(see flyer on next page for details)

ASCE Richmond Branch
Member Appreciation and
Recognition Event

at
Hardywood Park Craft Brewery

2408 Ownby Lane
Richmond, VA 23220

Wednesday, May 9th

5:30PM – 6:15 PM

Appetizers and Tasting

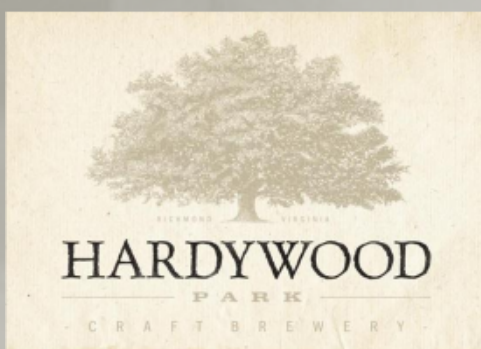
6:15PM – 7:00 PM

Recognition Program

7:00PM – 7:30 PM

Brewery Tour

Come recognize the new class of ASCE Richmond Branch Life Members and meet the graduating seniors from the University of Virginia Student ASCE Chapter at the newest Richmond Micro Brewery.



MEMBERSHIP APPRECIATION AND RECOGNITION EVENT SPEAKER

Thomas W. Smith, III, ASCE Deputy Executive Director & General Counsel

Tom Smith is a member of ASCE and serves as its Deputy Executive Director and General Counsel. His responsibilities as Deputy Executive Director include managing ASCE's Board Operations, Strategic Planning, Sustainability Initiatives, International Affairs, Professional and Educational Activities, Human Resources, and Customer Service departments. His responsibilities as General Counsel include legal consultation in the areas of employment, tax, corporate, contract, mergers and acquisitions, antitrust, intellectual property, real estate, and construction law. Mr. Smith also oversees ASCE's professional conduct and construction contract documents committees.

Prior to joining ASCE, Mr. Smith practiced law from 1990 to 1997 with the firm of Hazel & Thomas, P.C. in Northern Virginia. Mr. Smith's experience at Hazel & Thomas, now merged with Reed Smith, LLP, included commercial, construction and land use litigation in federal and state courts, as well as the preparation and processing of land use permits, including rezonings, special exceptions, special permits and site plan applications for commercial, industrial and residential development.

Mr. Smith received his law degree from Washington & Lee University (1990), where he was an associate editor of the Washington & Lee Law Review. Mr. Smith received his Master of Engineering and Bachelors of Science degrees in civil engineering from the University of Virginia (1987 and 1986, respectively).

Mr. Smith is a member of the Virginia and District of Columbia bars. He is a member of Chi Epsilon and currently serves as a member of the Board of Directors of the National Institute for Engineering Ethics. He is a past chair of the Legal Section Council of the American Society of Association Executives (ASAE). Mr. Smith is a Certified Association Executive (CAE) and has written publications on engineering ethics, construction site safety, local government law, and mechanics lien priority rights for design professionals. In addition to ASAE, Mr. Smith is a member of the Association of Corporate Counsel, has served as a member and chair of the Virginia Bar Association's National Moot Court Committee, and is currently serving as a member of the Fairfax County Board of Zoning Appeals.

NOT SURE HOW TO MAKE THE MOST OF YOUR MEMBERSHIP?

Check out these articles:

- [Professional Organizations, Is it for me?](#)
- [How Belonging to a Professional Society Can Energize Your Engineering Career](#)
- [Professional Societies: How Important are they to Career Advancement?](#)

PRESIDENT'S MESSAGE: A LIFETIME WORTH RECOGNIZING

Mike Howell, PE

Every industry attempts to honor those members who have reached the pinnacle of their career with some sort of recognition. It is an honor acknowledging the many years that they have labored, the countless achievements they have made to their profession, and the numerous individuals who they have either directly or indirectly mentored and influenced with their work. Certainly then it is all together fitting and proper that we as members of a profession dedicated to the bettering of society through our talents as engineers should make an equal recognition of those among us who have earned a place as our most distinguished members.



For the first time in several years, the Richmond Branch has the opportunity to recognize these accomplished individuals at a special reception event on May 9th. These individuals have given our profession and society their most treasured asset...their time. All of them have been members of ASCE for at least 30 years and in many cases they have been members for much longer. The accomplishment of these individuals over this course of time certainly contains many more successful endeavors than could ever be conveyed here. Many have volunteered for local, regional, and national boards and committees. Many more have also helped to recruit other members into the profession who have also done much to contribute to the profession. All of them, however, have made our profession and ASCE better because of their commitment and dedication.

This is a very special event and one that the branch is very excited to be able to host this year. I can think of nothing else we have done this year that is so worthy of our efforts than taking the opportunity for this recognition. Please consider attending the event and taking the time to honor these individuals.

MEMBERSHIP BENEFITS

myASCE

myASCE is a new resource specifically for civil engineers in the ASCE community. It is designed to make it easier than ever to find and connect with colleagues, old friends and alumni who are members of ASCE. It is also designed to help ASCE groups work together more efficiently in a trusted environment completely owned and managed by ASCE. As a member you can log into myASCE with the same login you've always used for the ASCE website members only area. You may also click directly on the myASCE link that appears at the top of every page of the website. Once you are logged in you will be directed to your profile. Every member has a profile on myASCE.

There are lots of features you can take advantage of:

- Professional photo's
- Attach a document (resume, CV etc...)
- Update your status to allow colleagues to know what you are working on these days
- Connect with your colleagues
- myASCE community groups
 - Groups for committees, task forces, sections, branches, institutes, and ASCE membership as a whole
 - Discussion forums, event calendars, and polls; Group notifications by email

CE Magazine

ASCE is launching a number of new digital initiatives related to the Civil Engineering Magazine. I encourage you to give them a look if you have not already:

- * An online edition of ASCE's award-winning [Civil Engineering magazine](#), providing 28 Web-exclusive articles each month
- * A new Civil Engineering magazine app for [Apple](#) and [Android](#) smartphones and tablets, already in use by more than 13,000 members

Need more reason to get active in (or join) ASCE?

In addition to the CE Magazine and myASCE, our organization encourages and provides opportunities for travel, community interaction, and leadership growth among several other things.

- Travel opportunities include regional and national conferences and seminars for continuing education and award ceremonies. Perhaps the biggest benefit of these events is the chance to network with peers and managers.
- Using our partnership with Engineers Without Borders, ASCE makes it easier for you to help out areas of the world that are less fortunate than we are in the United States. In addition to working in other countries, these types of experiences allow for friendships and bonds that extend well beyond engineering.
- Break away from the pack as a leader by volunteering or joining the board of directors.
- Also, several types of awards are presented at various times throughout each year. An ASCE Award will improve your resume and expand your professional repertoire as a leader.

As an organization that is expanding and learning, we offer numerous benefits for both personal and professional development. What else could you ask for?

ELECTIONS

Nominations are sought for the following positions for 2012-2013:

President-Elect - Represents Branch at ASCE leadership conference and in charge of planning special events such as Engineer's Week, liaison to the Richmond Joint Engineer's Council (RJEC), and shall supervise all internal events and committees. *The President-Elect is expected to serve a minimum of three years: one year as President-Elect, one year as President, and one year in an advisory capacity as Past President.*

Vice President - Administers with consent of the Board all aspects of general membership meetings including scheduling topics representative of current events in the profession, selecting a venue, registering or tracking all members attending, and tracking professional development hours associated with each meeting. *The Vice President is elected for a one year term.*

Secretary/Treasurer - Prepares meeting reports for all meetings, with signatory authority for financial matters and responsible for maintaining bank accounts, paying bills, collecting monies, and preparing financial reports. *The Secretary/Treasurer is elected for a one year term.*

Elections will be held soon via the Branch website. Look for an email with instructions.

OTHER VOLUNTEER OPPORTUNITIES

Join a Standing Committee

You can join or seek nomination to chair any of these standing committees:

Younger Member Committee - Shall plan activities and events to promote membership involvement from the Branch Younger Members Group, as the group is defined by ASCE.

Membership Committee - Shall plan events to promote new membership and shall maintain existing membership by encouraging participation and interest in ASCE in the Richmond area.

Education Committee - Shall promote member involvement in the efforts of all branch outreach to both pre-college and college age students. Committee is charged with delegating the responsibilities of the scholarship selection committee, planning fundraising events to support the Branch outreach, and shall participate in Engineer's Week activities in the Richmond area.

Communications Committee - Shall be responsible for all communication to the general membership. This includes, but is not limited to, the publishing of a monthly newsletter to all subscribing Branch members for the purposes of conveying information about upcoming Branch events, meetings, or activities.

Government Relations Committee - Shall maintain a relationship with government entities and conveying to the membership policies as they relate to the civil engineering community in Richmond or as a whole.

JUNE EVENT

VCU New School of Medicine Building Tour and VCU Chapter of Engineers Without Borders Presentation

On June 19th at 4:30PM, Gilbane will be offering a civil engineering based tour of the VCU New School of Medicine Building. The \$158.6 million project will feature 200,000-SF over 12 stories upon completion in early spring 2013. The new building will bring a new curriculum to the VCU School of Medicine and set the standard for American medical education. The building is being built to LEED Silver Certification standards, and was designed by the internationally acclaimed architectural firm, Pei Cobb Freed and Partners, with Ballinger architects.

Following the tour, the VCU Chapter of Engineers Without Borders will be presenting briefly about their current project in Bolivia. The students are currently working on providing a sustainable water delivery system in a developing community, and have recently successfully completed their first Assessment trip to determine some of the community's basic needs. They will be returning to Bolivia in the fall. Their presentation will feature their findings from Bolivia, as well as the next steps and future needs of their project.

Registration for this event will be open on our website, www.ascerichmond.org, by May 14th. We hope to see you on June 19th! Please see Amy Bird at abird@dewberry.com for questions or problems with registration.

FOLLOWING UP....

2012 Virginias Conference - UVA Student Chapter

March 29th-March 31st, the UVA Student Chapter took 34 members to the ASCE regional conference at Virginia Polytechnic Institute & State University. At the Virginias Conference, we participated in the Concrete Canoe, Steel Bridge, Recycled Miniature Golf, T-Shirt Design, Surveying, Environmental, Sustainable Land Development, Hardy Cross Technical, and MARR Technical Paper competitions.



Each team tirelessly prepped before conference, which enabled UVA to do very well. The UVA students placed in four competitions: 1st Place in Sustainable Land & Development, 2nd Place in the Steel Bridge, 3rd Place in the Environmental, and 3rd Place in the Hardy Cross Technical Paper.

2012 Virginias Conference - Summary of Events

Concrete Canoe (asce.org/concretec canoe) - The ASCE National Concrete Canoe Competition (NCCC) provides students with a practical application of the engineering principles they learn in the classroom, along with important team and project management skills they will need in their careers. The event challenges the students' knowledge, creativity and stamina, while showcasing the versatility and durability of concrete as a building material. The competition includes and aesthetics, endurance races, and sprint races in the concrete canoe.

Steel Bridge (aisc.org) - This inter-collegiate challenge requires civil engineering students to design, fabricate and construct a steel bridge. American Institute of Steel Construction is the primary sponsor of the competition with American Society of Civil Engineers the primary co-sponsor. The sequence of competition includes and aesthetic build, timed build, lateral loading, and vertical loading.

Miniature Golf Recycled Materials Design Build - A team of 3-4 freshmen and/or sophomore students from each school will design and construct a miniature golf hole using materials provided on site. The supplies will be recycled materials. After the design and construction time is over, all participants will be required to play on all constructed holes (putters will be provided). The scoring will be based on originality, use of recycled materials and total strokes. All equipment needed for construction will be provided as well.

(continued on next page)



Concrete Canoe



Environmental



Steel Bridge



Surveying



Recyclable Mini Golf

2012 Virginias Conference - Summary of Events (continued)

“Green” Concrete Bowling - Each team will bowl three frames; regulation bowling rules apply. Scoring will be based on the concrete mix design, ball appearance, bowling ball effectiveness (damages to a ball will deduct points) and the total team bowling score. The mix requirements for the bowling ball include Maximum of 50% of cementitious material may be Portland cement; the remaining cementitious material must consist of fly ash, slag, metakaolin, etc. Aggregates must be of inert materials and must be 75% recycled. Recycled Aggregate for this competition is defined as; Aggregate resulting from the processing of inorganic material, previously used in construction. This could be crushed concrete, recycled glass, Styrofoam, rubber tires, etc. The idea is to use something that would otherwise end up in a landfill.

Geotechnical Engineering Competition (Geo-Institute) - The objective of the GeoWall competition is to design and build a model mechanically stabilized earth (MSE) retaining wall using paper reinforcement taped to a posterboard wall facing. The design objective is to use the least amount of reinforcement needed to support the retained soil plus vertical surcharge loads.

Environmental Competition - This competition involves conventional water treatment operations. Each team (2-3 participants) will treat actual source water by means of coagulation, flocculation, and sedimentation. The effectiveness and efficiency of participants to apply the treatment methods will be evaluated.

Sustainable Land Development Design Competition - Students design for Virginia Sustainable Development (“client”), a land developer specializing in sustainable developments, recently bought a property with the intent of redeveloping the parcel. A major goal of the project is to redevelop the property to be more sustainable: socially, economically, and environmentally. Your task will be to create a “Sustainable Concept Plan” for this client.

Hardy Cross Technical Presentation and MARR Technical Paper - Students will research a Civil Engineering topic of their choosing. Then, at the conference, each competing student will give a report, in the form of an oral presentation, about his or her chosen topic.

Busch Gardens – New Roller Coaster by Mike Galli, M. Sc., P.E.

On April 17th, we held a meeting on the geotechnical challenges in designing the newest Busch Garden’s roller coaster, The Verbolten. Mr. Galli discussed, with a group of approximately 35, the geotechnical work required for The Verbolten.

Many of the challenges discussed were similar to those obstacles tackled by most engineers. These included construction scheduling constraints and working with other design professionals to come together to meet the client’s deadline. Unique challenges brought forth by this roller coaster’s design were having to use existing foundations that were constructed in 1984. These foundations did not have much if any original documentation and required engineers to provide more calculations this time than those required in 1984. Also, the client requested to allow only 1/8” tolerance on all of the supports. In addition to the design of the ride, ECS provided construction services to Busch Gardens that included the inspection of every bolt used on the roller coaster. Many attendees were surprised to hear how similar a roller coaster is to any other project a civil engineer would work on, and are looking forward to riding The Verbolten in the near future!

Thank you to Mr. Galli for presenting this project to us!

ASCE ACHIEVEMENT AWARDS

The Honors and Awards Program of the American Society of Civil Engineers has as its objective the advancement of the engineering profession through the recognition of exceptionally meritorious achievement. Fill information is at www.asce.org/awards.

Nominations Due June 1st

- Charles Pankow Award for Innovation
- Henry L. Michel Award for the Industry Advancement of Research
- OCEA Outstanding Civil Engineering Achievement
- OPAL Outstanding Projects and Leaders
- Ralph B. Peck Award
- The Professional Practice Ethics and Leadership Award
- H. Bolton Seed Medal (Nominations Accepted At Any Time, But Awarded In Even Years)
- Innovation in Sustainable Civil Engineering Award

CIVIL ENGINEERING SCHOLARSHIPS

The ASCE Virginia Section invites ASCE Virginia student members, or children and grandchildren of ASCE Virginia Section members or life members, attending an ABET-credited civil engineering program, to apply for a \$2,000 scholarship. Two \$2,000 awards will be made for the 2012-13 school year.

DEADLINE: MAY 31, 2012

[Click here for the ASCE Scholarship application.](#)



Kimley-Horn
and Associates, Inc.

YOUNGER MEMBER GROUP NEWS

Post-PE Happy Hour

The Post PE Happy Hour went off without a hitch and included lots of storytelling and good times as the built up PE pressure was washed away! Thanks to all those who came out! Now the pressure is on those taking the test in October!

P.E. Planner

Upcoming exam date is October 26, 2012

COMMUNICATIONS COMMITTEE NEWS

Branch Website

www.ASCERichmond.org

Call for Newsletter Editor

The Richmond Branch of ASCE is accepting volunteers for the Communications Committee including the role Newsletter Editor. Please contact the Communications Chair for more information.

Call for Sponsors

We are accepting sponsorship for our upcoming newsletters and website. The cost is \$10 for a ¼ page ad or \$20 for a ½ page ad per month (checks only, made payable to ASCE Richmond Branch). Contact the Communications Chair for details.



CALL FOR APPLICATIONS – DUE JUNE 1ST

The Emerging Leaders Alliance

The Emerging Leaders Alliance is a partnership among leading engineering, research and science-based organizations that provides high quality leadership training. Our mission is to provide an interdisciplinary community of learning for select professionals, promoting the development of great leaders to guide our professions in addressing the needs of people in the 21st century. Academic institutions address some of these needs through undergraduate programs. Traditionally, large corporations have provided leadership training programs to their employees. More frequently, however, job growth has been driven by small and medium corporations, which may not have the resources to provide training. The challenges facing the scientific and engineering community of the future require the engagement of professionals in industry, academia and government agencies. As such, it is particularly appropriate for professional societies to provide training in these areas.

The Emerging Leaders Alliance is supported by the United Engineering Foundation and organized by these partner societies: AIME, AIST, ASCE, MRS, SEG, SME, and SPE. Richmond Branch members Denise Nelson (class of 2009) and Mike Howell (class of 2010) are both alumni of the program. The workshop will take place on September 11-13, 2012 at the Sheraton Reston Hotel in Reston, Virginia, USA. ASCE will select at least 7 members to attend. [Click here to apply to participate by June 1, 2012](#). For more information, visit <http://www.emergingleadersalliance.org> or contact professional@asce.org

CONFERENCES AND TRAINING

May 15 – ASCE National Capitol Section monthly meeting at the Hilton Arlington. The featured speaker will be Stephen Powers, P.E., and Senior Resident Engineer at Parsons Management Consultants. Mr. Powers will speak on the history, current preservation status, and NCS efforts to restore the DC Boundary Stone fences.

May 20-24 – ASCE EWRI Congress 2012 in Albuquerque, NM.

June 5 – Joint luncheon hosted by the ASCE National Capitol Section Water Resources Committee and the Federal Water Quality Association, to be held from 11:30 a.m., to 1:30 p.m. in Washington, DC. The speaker will be George Hawkins, General Manager of DC Water. For additional information, contact Christian Manalo at (703) 377-1697.

For More Conferences, Visit

<http://www.asce.org/conferences/upcoming-conferences/>

For More Training Events, Visit

<http://www.asce.org/knowledge-learning/continuing-education/>

MEMBER SPOTLIGHT

Ed Buchanan, PE

Ed is a native Virginian, born in Fairfax, having spent most of his life in Spotsylvania, and attending college in Richmond. He graduated from Virginia Commonwealth University in 2000 with a Bachelor of Science in Mechanical Engineering.

After graduating, Ed worked in a few different industries around the Richmond area, doing such work as designing packaged watertube boilers, operating water treatment pilot plants across the country and in Canada, and supporting a public utility with GIS management.



Ed became a civil engineer purely by chance. After working in predominantly mechanical engineering positions for a few years, he realized the opportunities were more varied and plentiful in the civil field so he applied for a position with Hanover County Public Utilities. He was pleasantly surprised to have been offered a position as a Utility Engineer in 2005. That opportunity set his current career path towards civil engineering, specifically, buried water and wastewater infrastructure. Ed moved from the county into engineering consulting, where he eventually landed a position as a Project Engineer with Environ-Civil Engineering, supporting Greely and Hansen and their client, the City of Richmond, in the Stony Point office.

His current job duties are varied and interesting, ranging from GIS data management and CAD design services to field studies for pipeline rehabilitation and replacement. He manages a number of projects in the City of Richmond which allows him the opportunity to learn the history of our great city while also improving the quality of life for the residents. His most current project will upgrade an aging sanitary sewer system, which will increase sewer flow and improve the overall sewer service to the surrounding neighborhoods.

Ed was not actively involved in the ASCE Richmond branch until recently, joining the committee as the **Membership Chair** earlier this year. He noticed the good work of the current committee members, felt the desire to give back to the engineering community, and realized the opportunity to contribute to both as the Membership Chair. Currently, he is actively planning a member recognition event for May and looking forward to increasing our Branch's active membership through outreach and improved communication. So far, he says the experience has been overwhelming positive and he looks forward to growing in his role as the ASCE Richmond Branch Membership Chair.

He lives in Mechanicsville with his wonderful wife, Lori, their three young sons, Evan, Hayden, and Dylan, and their two dogs, Aussie and Abbie.

BRANCH BUSINESS

Schedule of Upcoming Events

| Date | Speaker | Topic | Location |
|-----------------|---|---|-------------------------------------|
| May 9, 5:30pm | Thomas W. Smith, III | Membership Appreciation | Hardywood Park Craft Brewery |
| June 19, 4:30pm | Gilbane and VCU Engineers without Borders | Tour of VCU New School of Medicine Building and Sustainable Water System in Bolivia | VCU New School of Medicine Building |

Contact Information

| Name | Office / Committee | Company | Phone | Email |
|------------------------------------|-----------------------|-----------------------------------|----------|-------------------------------|
| Mike Howell, PE | President | Austin Brockenbrough & Assoc. LLP | 592-3905 | MHowell@Brockenbrough.com |
| Amanda Harmon, PE | Past President | Kimley-Horn and Associates, Inc. | 673-3882 | Amanda.Harmon@Kimley-Horn.com |
| Amy Bird, EIT, LEED AP | President Elect | Dewberry | 205-3338 | ABird@Dewberry.com |
| Mark Yanik, EIT | Vice President | Parsons Brinkerhoff | 615-4900 | Yanik@PBWorld.com |
| Tony Gaynord, PE | Treasurer / Secretary | McKinney & Company | 798-1451 | AGaynord@McKinney-USA.com |
| Denise Nelson, PE, LEED AP, ENV PV | Communications | Greeley And Hansen LLC | 204-2407 | DNelson@Greeley-Hansen.com |
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| Ed Buchanan, PE | Membership | Environ-Civil Engineering, Ltd. | 549-5649 | Buchananee@ECE-LTD.com |

There is more great information at:

www.ASCERichmond.org www.ascevirginia.org www.asce.org

The Newsletter is distributed to all ASCE Richmond Branch Members. If you received this copy from a colleague, consider becoming a member! Membership information is available at the links above.



Please consider the environment before printing this newsletter