

The Wharf: Revitalizing Southwest Waterfront

The Wharf is reestablishing Washington, DC, as a true waterfront city and destination. This remarkable mile-long neighborhood along the Washington Channel of the Potomac River brings dazzling water views, hot new restaurants, year-round entertainment, and waterside style all together in one inspiring location. The Wharf, situated along the District of Columbia's Southwest Waterfront just blocks south of the National Mall, is easily accessible to the region.

When complete, The Wharf will feature more than 3 million square feet of new residential, office, hotel, retail, cultural, marina, and public uses, including waterfront parks, promenades, piers, and docks, designed by one of the most impressive lineups of architects in the nation. The Grand Opening period for Phase 1 begins in October 2017 and Phase 2 delivers in 2021. Development of The Wharf is led by PN Hoffman and Madison Marquette.

About the Speaker: Gary Ball; Director, Real Estate Service, Madison Marquette

Gary Ball joined Madison Marquette in 2015 with 31 years of construction experience in the Washington area. Gary is involved in all aspects of oversight and coordinating construction of Madison Marquette development projects in the Mid-Atlantic area.



His primary assignment is the Wharf project with Phase I set to complete in October 2017 and Phase II planning now underway.

Prior to joining the Wharf project, Gary served as a Project Executive at Turner Construction, 2009 to 2013, where he was responsible for the base building commercial market for the Business unit. Gary's projects at Turner included the 14 story Nuclear Regulatory Commission building at White Flint, NICOE medical center at Ft Belvoir,



Renovation of the South Baggage base-ment at Dulles Airport, Kincora Village Safety Center, Renovation of the IMF Concordia, a 110 room extended stay hotel, and the Monty, and a 17-story Residential tower in Bethesda, Md.

Previously as a Vice President at Davis Construction, Gary was responsible for multiple large base building projects including the 670,000 SF ATF headquarters building in NOMA, the 1M SF Potomac Yards Land Bay A & B project for the EPA and the 600,000 SF Potomac Yard Land Bay E West project. Gary worked with Davis from 1985 through 2008 and was responsible for over 4M SF of build-to-suit, base building, specialty and interior projects with a construction cost in excess of \$2B.

Actively engaged in the community, Gary sat on the Mayor's Advisory Committee for the Department of Parks and Recreation. He also chaired for DCBIA's Community Services Corp which provides community services to

Please join us on **Tuesday, May 23**, at the Hilton Arlington, 950 North Stafford Street, Arlington, VA, on the second floor in the Gallery Ballrooms. Parking is available at the hotel (\$10), at the Ballston Mall garage (\$1 after 6 pm), and on the street (free after 6 pm). The Hilton is on the same block as the Ballston Station on Metro's orange and silver lines. Registration and networking will be from 6-6:45 pm, followed by dinner. The program will end by 8:30 pm. The cost is \$45 for those preregistering, \$10 for students and \$55 for walk-ins, as space allows. One Professional Development Hour is available to attendees. For questions, please contact [Jordan Pitt](#). Please click [here](#) to register by **May 18**.

Note that no-shows will be charged the full registration fee. We welcome walk-ins, including any registrations made after the guaranteed number of guests is provided to the hotel. However, the cost for walk-ins is higher because the Section is charged accordingly by the hotel for late registrations.

Washington DC by rebuilding a city park yearly for 7 years.

Gary began his career in 1980, having graduated from Montana State University, as an active duty Army officer with the Army Corps of Engineers where he served for just under 6 years before joining Davis Construction.

Please join the ASCE-NCS on Tuesday, May 23, as Gary Ball, Director of Real Estate Service for Madison Marquette presents this exciting topic about the Wharf on Southwest Waterfront! ■

President's Corner

This issue of the NCS Newsletter will be the last for several months until we resume our regular monthly dinner meetings again in September. Besides enjoying some down-time with friends and family, the NCS Board of Directors, Committee Chairs, Faculty Advisors, Practitioner Advisors, and other active members will come together over the summer to plan next year's Section activities during the Board's Planning Meeting scheduled for Tuesday, July 18th at 6:00 PM in Washington, DC (final location TBD). I strongly encourage you to attend; whether you are simply interested in observing or wish to actively take part in the planning discussions, we welcome your participation and input. If you are interested in attending the meeting, please contact me at president@asce-ncs.org so you can be included in the meeting invitation.



own time at the Smithsonian National Air & Space Museum. I am very grateful to the NCS Education Committee and its organizers and volunteers that devoted their personal time and efforts to making these important outreach events possible. We have already begun discussing future college outreach activities for next year and I look forward to seeing those begin to materialize in the fall.

Coming up this month, we are excited to feature The Wharf DC waterfront development project in southwest Washington, DC as the topic of our May 23 dinner meeting. On May 15–16, we are looking for volunteers who will act as judges for the Annual ASCE Sustainable Development Award, which will be part of the 2017 EPA National Sustainable Design Expo and P3 Student Design Competition at the Gaylord Hotel in National Harbor, MD. Also, keep an eye out for the details of the NCS Reston Committee meeting, scheduled for May 17, which will feature a presentation by Mike Sanio about the Alexandria Renew Nutrient Management Facility, the recent winner of the 2017 ASCE-NCS Sustainability Project of the Year Award.

As you probably know, ASCE released the [2017 Infrastructure Report Card](#) in early March, which ranked the overall condition of America's infrastructure across 16 major categories as a D+ (the same rating as in 2013). While on one hand we can be glad that the overall

grade did not go down over the last 4 years, it is disappointing and disheartening to see that our infrastructure condition is not steadily improving across-the-board. As civil engineers, it is easier for us to understand the importance of having a strong and reliable infrastructure since many of our jobs depend on it. It is our job to design and build these systems on a day-to-day basis, but it is our duty as American citizens to share our thoughts and opinions with our elected officials in order to raise awareness about the importance of our infrastructure and to ensure that infrastructure investment is spent wisely. With that in mind, I hope you will support [Infrastructure Week](#) this year from May 15–19, to let your voice be heard about what infrastructure means to you, our community, and our nation, so that we can prepare ourselves for the needs of the future.

I hope you enjoy the summer months ahead, and we look forward to seeing you in September as we resume our regular monthly Section meeting schedule!

Sincerely,



Jordan Pitt
President, ASCE National
Capital Section

Newsletter

Jim Palmer, Editor

September 2017 Issue Deadline: August 12, 2017

To Submit Articles: newsletter@asce-ncs.org

NCS eNewsletter Archives: go to www.asce-ncs.org and view along the sidebar.

Address Changes: Call 1-800-548-ASCE, e-mail member@asce.org, visit www.asce.org, or write: ASCE – Membership, 1801 Alexander Bell Drive, Reston, VA 20191. Include your membership number.

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Please refer to the [NCS website](#) for a current list of NCS committees and chairs.

Director Letter

Dear Region 2 Members,

Below are my perspectives on some of the highlights from the ASCE March Board of Direction meeting.

- The Board voted to approve a strategy road-map for student transition and Younger Member retention. The roadmap suggests eight action items, including giving Younger Members a greater voice in the Society.
- The Committee on Diversity and Inclusion and Committee on Ethical Practice proposed amending the Code of Ethics to enforce ASCE's



commitment to diversity and inclusion. The proposal will come up for a vote next July.

- A new Task Committee on Governance Structure proposed changing the size and structure of the Board. The proposal prompted a vigorous discussion. The Committee is continuing to develop their draft recommendation.

■ Greg DiLoreto, Chair of the Committee for America's Infrastructure, informed the Board that the 2017 Infrastructure Report Card received thousands of media mentions across the nation during

first week following its release. The Board discussed expanding the 2021 Report Card to include the cost saving achieved via ASCE's "Grand Challenge" to reduce the lifecycle cost of infrastructure.

The next Board meeting scheduled for July 28–29 in Baltimore will include a full day of strategic planning.

Until then,

John Casana, PE, D.WRE, LEED AP,
F.ASCE
Director, Region 2

April Section Meeting Recap

Transurban: Express Lanes in Virginia

The National Capital Section was pleased to have Karl Rohrer, Head of Delivery for Transurban, as the keynote speaker for our April Section Meeting to present on the 495 and 95 Express Lanes in Virginia. With a total of 35 miles of Express Lanes to manage in Northern Virginia, Transurban has been keeping busy since the opening of the I-95 Express Lanes in 2014. Beginning in 2007, Transurban has been crucial to the development of Express Lane roadways in Virginia, helping to pioneer the Public-Private Partnership (P3) managed-lanes concept in the U.S. through their leading role to develop the 495 Express Lanes, the first Express Lanes facility to use a

dynamically-priced (real time) model to control traffic flow in the system using EZPass transponders as opposed to traditional toll stations with fixed-rate tolls. The 95 Express Lanes project was also unique in being the first reversible facility to use a dynamic pricing model to establish toll rates.

In order to help control the traffic flow within the system, the Express Lanes' dynamic pricing system is structured such that when traffic volumes increase within the Express Lanes, the tolls are also increased to discourage drivers from taking the Express Lanes and overcrowding the system. In contrast, if traffic volumes are low in the Express

Lanes, the tolls are correspondingly reduced to indicate to users that the traffic volume is low, thus encouraging use of the system as an alternative to reduce travel times. In order to price specific trips on the Express Lanes, the toll prices adjust as often as every 15 minutes using data collected from 20 small segments within the Express Lanes corridor. All this adds up to improved travel times for roadway users, with an average time savings of 35–40 minutes per trip, and a maximum-recorded time savings of 3.5 hours. While tolls during off-peak hours aren't always necessary to manage demand, they are needed to cover

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April Section Meeting Recap

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ongoing costs to operate and maintain the system.

Not only does Transurban operate and maintain the 495 and 95 Express Lanes network, but the company has been very active as a partner of the Virginia Department of Transportation (VDOT) working to expand the Express Lanes network in Virginia. Transurban has partnered with VDOT to construct a two-mile extension of the 95 Express Lanes at the southern end of the Express Lanes near Garrisonville Road further south. The project will extend the Express Lanes beyond the current "bottleneck" at the Garrisonville Road flyover ramp bridge, and will add a new northbound entry to the Express Lanes and a southbound exit to the I-95 general purpose lanes in the vicinity of Route 610 (Courthouse Road) in Stafford County, Virginia. For the project, VDOT is responsible for design and construction and Transurban will be responsible for long-term operations and maintenance of the facility for the remaining term of their existing 75 year concession agreement with VDOT. Construction of the project is underway, with the southbound section set to open by end of 2017 and the new northbound ramp by mid-2018.

At the northern end of the 95 Express Lanes, the 395 Express Lanes project is currently underway (scheduled to begin construction in July 2017) to extend the Express Lanes approximately 8 miles north to Washington, DC. The project will convert the existing two reversible HOV lanes to three HOT/Express Lanes from the current northern terminus of the Express Lanes near the Springfield interchange north to Eads Street and the



Potomac River. One of the challenges and goals of the project was to develop a solution at the northern terminus near Eads Street interchange that would prevent traffic from backing up south of Eads Street interchange during peak hours. Multiple alternatives were considered in conjunction with VDOT and it was determined that providing an additional toll point north of Eads Street to toll the existing HOV ramp (Ramp G) would help reduce the amount of traffic coming onto the facility at that location which is currently an HOV-only ramp that is unenforced by VDOT. Mr. Rohrer also noted that the signing design along the corridor was particularly challenging to maintain the existing signs while incorporating the high-density of signage needed for the proposed Express Lanes. The 395 Express Lanes are scheduled to be opened by October 2019 with final completion of all project elements by May 2020.

A future project to extend the 95 Express Lanes another 9 miles south towards Fredericksburg as part of VDOT's approved Atlantic Gateway grant is currently in the planning phase. Preliminary design and environmental review is underway and Transurban is working with VDOT to discuss options for project development and delivery.

With current Express Lanes projects underway and future projects on the horizon, it is encouraging to see that VDOT is working with partners such as Transurban to provide alternate options for drivers in the Northern Virginia region. With the upcoming construction of the I-66 Outside the Beltway redevelopment project and I-66 Inside the Beltway widening project, there will be even more options for drivers moving forward. Now all we have to do is get used to seeing construction cones for a few years. ■

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- Section meeting passes
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- Business card recognition in eNewsletter for 1 year
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- Exhibit space at Monthly Section Meeting (\$150)
- Scholarship Trust (\$100+)

As a volunteer-run Section of ASCE, your sponsorships allow NCS to promote our profession with public outreach efforts and support the professional and personal growth of our members. NCS is also committed to assisting civil engineering students through its Scholarship Trust. Surplus funds from the Section add to the Trust, subsidize the fees that we charge our members for educational meetings, and help us promote civic participation and leadership. Visible recognition for your support is a key part of the program. We have outlined specific sponsorship opportunities below.

eNewsletter Sponsor/Website Recognition: Our eNewsletters are issued throughout the year and distributed to more than 5,000 individuals.

Annual Awards Banquet: The NCS Annual Awards Banquet will be Tuesday, March 21, 2017 in Arlington. With attendance typically exceeding 100, we must rely on the generosity of others to support a quality event to honor deserving individuals and projects. As a sponsor, your firm will be recognized in the event program, on a display board located within the banquet hall, on our website, and in our eNewsletter.

NCS Meeting Benefit: Meeting sponsorship entitles your organization the opportunity to exhibit promotional materials at a monthly Section dinner meeting or select other meetings/events. Platinum sponsors also receive an opportunity to present their firm from the podium before the meeting's keynote speaker. Meetings are held throughout the year, typically several times per month. Platinum sponsors also receive a "Platinum Section Meeting Pass" that allows them to send one attendee at no cost to any or all monthly Section dinner meetings (Annual Banquet excluded).

Scholarship Fund, Direct Contribution: More than \$340,000 in scholarships have been awarded to local students since 1988. As in previous years, recipients will be announced at the Annual Awards Banquet.

Sponsorship demonstrates your commitment to those who serve in developing and sustaining our built and natural environment. ASCE-NCS provides a unique platform to showcase your partnership in promoting the civil engineering profession, honoring the past, and improving our future. For further information, contact Sponsorships Committee Chair Mr. Christian Manalo at (703)377-1697 or via email at Manalo_Christian@bah.com

Student ASCE Steel Bridge Competition 2017

George Mason University Was Again Among Top Three. Congratulations GMU & Dr. Durant!

For the third consecutive year, George Mason's Steel Bridge team has placed in the top 3 overall at the Regional ASCE Virginias Conference. In both 2015 and 2016, Mason's Steel Bridge advanced to the AISC-ASCE National Student Steel Bridge Competition where their bridge took the first place prize for "Stiffest Bridge" in the United States, finishing 36th overall in 2016. ASCE Annual Student Steel Bridge Competition challenges civil engineering students to design, fabricate and assemble a scale steel bridge structure according to specific design specifications and during a timed trial. Each constructed bridge is then loaded to 2000 pounds and the deflection of the structure is measured at various points. The Student Steel Bridge Competition increases awareness of real-world engineering issues including spatial constraints, material properties, strength, serviceability, fabrication and

erection processes, safety, esthetics, project management, and cost. Success in competition requires application of engineering principles and theory, and effective teamwork.

While only the top two teams in the regional competition advanced to National's this year, Mason's bridge entry won first place for Stiffness at the Regional Virginias Conference with only 0.8 inches of deflection after the full 2000-pound load was applied. Mason's successful team includes Mark Fiorina (Design Captain), Brandon Limberis (Build Captain), Nam Lee (Builder), Joey Eidson (Loader), Sean Burstein (Builder), Craig Gray (Builder), and Rebecca Haataja (Builder). Dr. Liza Wilson Durant has been serving as "coach" and faculty advisor to the Mason ASCE team since 2010. ■



Congratulations GMU Steel Bridge Team



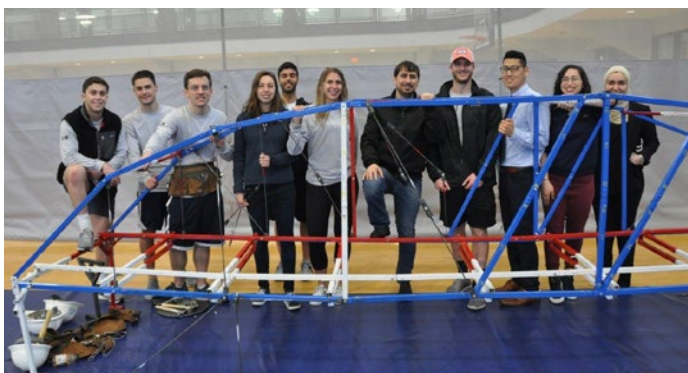
University of the District of Columbia's Team



Catholic University's Team



Howard University's Team



George Washington University's Team

Employment Clearinghouse

The 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, are seeking employment or would like to post a position please contact the [newsletter editor](#) and visit our [jobs page](#).

ASCE-NCS Volunteer Opportunities

2017 EPA National Sustainable Design Expo and People, Prosperity and the Planet (P3) Student Design Competition

The EXPO and P3 Competition will be held from Noon to 6 PM on both Monday, May 15, 2017 and Tuesday, May 16, 2017. They will be a part of the TechConnect World Innovation Conference and Expo, housed from May 14–17 at the Gaylord National Harbor Resort and Convention Center in National Harbor, MD.



We are calling for volunteers who could act as judges for our Annual ASCE Sustainable Development Award. This would ideally involve interviewing the student teams at their Phase 1 presentation booths, which typically takes one to two hours. We'll present the \$1,000 award to the team later in the Expo. The award can be used by the team in their efforts to continue their work with their more elaborate, ramped-up Phase 2 of their project.

If you are interested in judging, please contact Alex Rosenheim. Alternatively, if you are interested in judging, but cannot make it during the times the EXPO is open on Monday or Tuesday, please let Alex know that, too. Project information for off-site judging might be available if necessary.

Please contact Alex Rosenheim if you are interested in being a judge for this competition. The student teams are always a great inspiration and hope for

our future. For further information or to volunteer, please feel free to call Alex at 202-412-3090 or email the Sustainability Committee at tcc.sus@asce-ncs.org.

RESET: Opening the doors of Discovery and Opportunity

DC-area non-profit organization RESET seeks ASCE volunteers to lead hands-on science and math sessions in elementary school classrooms and extended-day learning centers. RESET's objective is to spark interest among young students in Science, Technology Engineering and Math (STEM).



Typical RESET programs involve a volunteer or team of volunteers working with the same teacher and class of students for six experiments during a school term. There is also the option of a field trip to a STEM site. Most RESET programs are scheduled during the school day or in after-school programs, although there are opportunities for Saturday and summer volunteers.

RESET provides a self-directed orientation program to prepare volunteers for their classroom experience and pays expenses for classroom materials and field trips. Each volunteer is placed at a school in their geographic area of preference and at the appropriate grade level for the STEM topics to be included in the program.

If you are interested in learning more about RESET, Executive Director John Meagher (reset@resetonline.org or 703-250-0236) would welcome the

opportunity to meet you at a place near your home or workplace. RESET's website is resetonline.org.

Calling all Civil Engineers that want to Share their Experience by Volunteering to Support Science, Technology, Engineering, and Math (STEM) with the Next Generation of Civil Engineers

As this school year comes to an end we are already beginning to prepare for the Fall Semester. With your help, experience, and knowledge, we hope to assist K-12 teachers in bringing civil engineering concepts to young students. This program works particularly well for retirees that can devote one day a week to volunteering. We are focusing on the elementary schools where your expertise in civil engineering would be welcomed by teachers introducing science and engineering concepts to young students.

We are partnering with the American Association for the Advancement of Science (AAAS) program as we seek volunteers for our outreach to the next generation. AAAS has been bringing engineers and scientists into the classrooms for over eleven years: <http://www.aaas.org/senior-scientists-and-engineers/programs-dc>. As Civil Engineers, we have embraced this educational outreach program by working with AAAS in supporting STEM in the school districts in the Capital Region including counties in Maryland and Virginia and in the District.

If not retired, we still have opportunities for you to use your experience and knowledge to support the next

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Alternative Item Types: A New Testing Component for FE, FS and PS Practice Exams

Are You Ready for AITs?

Over the years, I have observed that taking the multiple-choice Fundamental of Engineering (FE) tests comes more easily for some examinees than for others. Even some students enjoy taking these tests and exhibiting their knowledge while others dread the process and suffer from test anxiety. Knowing what format the test will have can help you develop your own learning and preparation process and focus on the strategies needed to do well. As we promised last month, today we are going to talk about some new exam formats including the new AITs.

Starting July 1, 2017, all computer-based NCEES exams will introduce a new testing component called Alternative Item Types (AITs). Alternative item types will be incorporated into the FE, FS, and PS practice exams. Alternative item types provide opportunities to assess the technical knowledge of examinees using methods not available through paper-and-pencil based testing.

AITs are questions other than traditional multiple-choice questions. According to NCEES, all computer-based exams will incorporate commonly used alternative item types that include but are not limited to the following:

- **Traditional Multiple Choice Questions** – A multiple-choice question consisting of the text of the question and four options provided after the question
- **Multiple Correct Options** – Allows multiple choices to be correct
- **Point and Click** – Requires examinees to click on part of a graphic to answer
- **Drag and Drop** – Requires examinees to click on and drag items to match, sort, rank, or label

- **Fill in the Blank** – Provides a space for examinees to enter a response to the question

Let's explain these formats starting with the traditional *Multiple-Choice* questions that feature four-answer options from which to choose, one of which is the correct answer. This format has been used for years and all students are familiar with this format.

Multiple-Choice questions with *multiple* correct options feature more than four answer options from which to choose and allow for multiple answer options to be selected.

Point & Click questions require you to select one or more predetermined clickable areas that become visible when you move your cursor over the graphic or picture. *Point & Click* questions may also ask you to select an unidentified spot or spots on the graphic. In other words, *Point & Click* questions contain a picture or some other form of media with one or more areas designated by NCEES. The test taker, when answering a *Point & Click* question, cannot see the area(s). The examinee must select a point on the graphic/picture. Credit is given if the examinee selects a point within the designated area(s).

Drag & Drop questions require you click and drag your answer options to sort, rank, match or label a provided graphic. This question type allows examinees to drag answer to a question. These type of questions are great for sorting information especially information that is visual or process-oriented. To give an idea, let's say that a question has four levels of information and the exam developer would like to evaluate each student's knowledge by having her/him match each level to its title. To do this all steps are displayed on the left-hand side of the screen. Then the right-hand side of the screen would include the name of each

level. This question type is similar to matching in that the user must match answers to questions.

Fill in the Blank questions are familiar and they require examinee to enter the response instead of choosing it from a list of answer options.

Now a few words for the PE exam takers as well: As always, the first thing to do is to familiarize yourself with your state licensing board's registration procedures before registering for a PE exam. The Principles and Practice of Engineering (PE) exam is designed by the National Council of Examiners for Engineering and Surveying (NCEES) for engineers who have gained a minimum of four years post-college work experience in their chosen engineering discipline. According to our students who have conquered the PE exams, the best strategies are; studying the reference material from NCEES regularly for at least two hours a day, solving as many practice problems as possible, reviewing the PE exam specifications and design standards, and, of course, organizing your test material in well-indexed three-ring binders. Most importantly, remember not to "cram" because you are being tested on knowledge that you have accumulated over several years. Studying at the last minute will only stress you out. Before the exam day, you may go to a movie or hang out with a friend – anything to get your mind off of the test!

And lastly, stay relaxed and confident. Always keep a good attitude and remind yourself that you are going to do your best!

Good Luck,

Dr Z
Ahmet Zeytinci, PE
az@akfen.com



ASCE-NCS Committee News and Updates



Younger Member's Forum

Happy Hours. The ASCE-NCS Younger Members Forum (YMF) holds monthly happy hours in Arlington, VA or Washington, D.C. Happy hours are typically held the first Wednesday of each month unless a holiday falls during that week.

The ASCE-NCS Younger Members Forum (YMF) held their April Happy Hour at RDF in Washington, DC on April 5th.

The next monthly happy hour will take place at Courthouse Social in Arlington, VA at 6pm on Wednesday, May 3rd. Look out for emails with specific locations for future monthly happy hours!

Stay Connected! Check out photos and stay up-to-date with YMF events by visiting the new YMF Facebook page: <http://www.facebook.com/ASCENationalCapitalYMF>. Also, follow us on Twitter (@asce_ncsYMF) at https://twitter.com/asce_ncsYMF.

Get Involved! Are you interested in getting involved with more Younger Members activities? Do you have ideas for social events or volunteering activities? Would you like to be a board member? The ASCE NCS Younger Members Group is always looking for new members! Let us know if you are not already on our mailing list!

If you would like to become more active with the YMF or would like more information on our events, please contact the YMF President (ncsymfpresident@gmail.com).

Education Committee

NCS volunteers from the Education Committee, Vic Crawford, Ranjit Sahaj, Shainur Ahsan and newcomers Jameelah Muhammad and Alejandra Martinez have been working with Gillian Love of the Dream Big Committee over the past few months to organize the roll-out of the ASCE "Dream Big" documentary. I again wish to commend Jameelah Muhammad and Alejandra Martinez for taking the lead on contacting and organizing the schools, Jameelah for the

UDC and Howard events, Shainur and Ranjit for George Washington University and Alejandra for Catholic University and George Mason University.

The Education committee activities range from Kindergarten to Graduate school. This month there was a Science, Technology, Engineering, Art, and Math (STEAM) Event at Wakefield Forest Elementary School in Fairfax County. NCS' K-12 coordinator, Vic Crawford, along with Lisa Turcios, Jennifer Aponte, and Michelle Cortes-Salva and her sons Fabian and Diego, used the Windy City exercise to draw in the Next Generation of Civil Engineers. This exercise, as shown in the Dream Big IMAX movie, provided students and their parents at Wakefield Forest Elementary an opportunity to design a structure to test how well that structure withstood wind loading. In addition, the Centennial Celebration banner was used to show how Civil Engineers have supported the public in the Capital Area for the last one hundred years. As part of our outreach, two copies of our award-winning book *Engineering the Nation's Capital* were provided for use in the school's STEAM program.



In the past month, the Committee organized outreach efforts for George Washington and Catholic University. The GWU meeting was on Thursday, April 6th and was well attended with roughly 20 students; presenters included Younger Members Mike Melhorn and Riam Firouz and hosts Ranjit and Shinur. On April 11th, the committee hosted an outreach effort with Catholic University lead by Alejandra Martinez. In both events, the students talked with Younger Members about a range of topics, including what was the most important thing they learned in practice was and how ASCE helped them in their careers.

In both outreach events, the students ranked networking exposure to young practicing members as the number one benefit of ASCE. Help with résumés was the biggest request from the students and the committee will be reaching out to members on this point.

Lastly, next year's regional Concrete Canoe and Steel Bridge competitions will be hosted at Catholic University in the Spring of 2018. This is a big event as the recent event at the University of Maryland showed. NCS hopes to be supply judges and volunteers for this event and the Committee will be reaching out to members for help.

Practice advisors are a crucial connection between the Section and the Student chapter and the Education Committee is looking to recruit volunteers for the Universities in the NCS area. Please consider it as another means of giving back to our community and ensuring the health of the profession's future.

ASCE will conduct a multi-region leadership conference in Buffalo in January 2018. NCS is in Region 2 and this conference will include Regions 1, 2, 4 and 5. The attendees will come from ASCE sections from Maine to Louisiana. This meeting will cover all three "tiers" of ASCE leadership, namely the student chapters, young member forums and sections.

I will close by noting that again, regrettably, none of the NCS' five schools chapter leadership have participated in past conferences (Maryland Section was not represented either). Maryland and the District of Columbia were two of only a few "states" that were completely unrepresented by students at the 2017 workshop. It is a goal of the Education Committee to work to change this going forward.

Finally, as has been said many times in past newsletters, the success of the NCS Education program depends upon the capacity of the section to mobilize enough volunteers with a necessary quality and depth in the response.

Engineering professionals who are interested in learning development or fund raising for these programs as

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Upcoming Events *(Also available on the NCS website under the Events tab.)*

May 3

YMF Happy Hour, 6:00–8:00 pm, [Courthaus Social](#), Arlington, Va. Join younger members from the area for free appetizers and drink specials. Find us on the outdoor patio. Look for an email announcement with more details.

May 15–16

EPA P3 National Sustainable Design Expo, Gaylord National Harbor. See this month's Volunteer Opportunities section for more information.

May 17

Reston Committee Sustainability Forum, 11:45 am–1:00 pm, ASCE Headquarters, Reston, Va. Sean Stephan of the Alexandria Nutrient Management Facility and Mike Sanio, Director of Sustainability for ASCE will present; one PDH will be awarded to attendees. For further information, contact Committee Chair Lisa Anderson: lmanders@bechtel.com or 703-429-6631.

May 23

ASCE-NCS Section Meeting, 6:30–8:30 pm, Hilton Arlington. See this month's featured article for more information.

June 4–7

Geo-Risk 2017: Denver, Colorado. Geotechnical Risk from Theory to Practice will feature the latest research

advances and engineering-practice innovations with a focus on the use of probabilistic and risk methodologies in geotechnical engineering. The conference will include a wide range of knowledge-enhancing keynote, panel and technical sessions, as well as short courses. View the [Preliminary Program](#) for program details.

June

YMF Nationals Baseball Game, Nationals Ballpark, Washington, DC. Join younger members for a night at the ballpark to watch the Washington Nationals; date/time TBD – look for an email announcement with more details.

June 7

YMF Happy Hour, 6:00–8:00 pm, [Local 16](#), Washington, DC. Join younger members from the area for free appetizers and drink specials. Find us on the upstairs deck. Look for an email announcement with more details.

June 15 (Tentative)

Reston Committee Member Appreciation Social Gathering. Look for an email announcement with further details in June! For further information, contact Committee Chair Lisa Anderson: lmanders@bechtel.com or 703-429-6631.

July 12

YMF Happy Hour, 6:00–8:00 pm, [Cantina Marina](#), Washington, DC. Join younger members from the area for free appetizers and drink specials. Find us on the outdoor patio. Look for an email announcement with more details.

July 18 (Tentative)

ASCE-NCS Summer Planning Meeting. Look for an email announcement with further details in June! For further information, contact NCS President Jordan Pitt: president@asce-ncs.org

August 2

YMF Happy Hour, 6:00–8:00 pm, [Uncle Julio's](#), Arlington, Va. Join younger members from the area for free appetizers and drink specials. Find us on the outdoor patio. Look for an email announcement with more details.

August 4–6

Younger Member Leadership Symposium, ASCE Headquarters, Reston, Va. This two-day workshop is hosted by the Committee on Younger Members and is open to all Younger Members, not just YM Presidents or officers. During this conference, we will focus on professional development for your career.

ASCE-NCS Volunteer Opportunities

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generation. This includes Project Lead the Way (PLTW), which has a civil engineering component.

As a volunteer for these programs, you will be provided with three copies of our centennial book, *Engineering the Nation's Capital: A Century of Innovation and Promise for the Future*, to leave in the science/engineering classes rooms. If you are interested in giving back to the profession while sharing the joy of engineering with eager young minds, please contact Victor I Crawford at vic-tor.crawford51@gmail.com. ■

ASCE-NCS Committee News and Updates

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well as identifying resources or grants are encouraged to join the Education Committee and should contact Mike O'Connor at mike@fplmuseum.org.

Reston Committee

On May 17th, the Reston Committee will hold a Sustainability Forum, featuring Sean Stephan, of the Alexandria Nutrient Management Facility, winner of the 2017 ASCE NCS Sustainable Project of the Year, and Mike Sanio, the Director of Sustainability for ASCE. The meeting

will be held at ASCE Headquarters at 11:45am; one PDH will be awarded to attendees.

We are tentatively planning to host a member appreciation social gathering in the month of June. Details will be forthcoming.

To be added to the Reston Committee distribution list, please contact Lisa Anderson: lmanders@bechtel.com or 703-429-6631. ■