

### Right in our Backyard – A Must for History & Heritage Fans

Fort Myer is that postage size US Army post adjoining Arlington National Cemetery. It has been continuously occupied since May 24, 1861, and in its history has seen the likes of the Wright Brothers, Alice Roosevelt, Charles Lindbergh, George Patton (4 times), and Jacqueline Kennedy accompanied by Caroline. Underneath its soil are mysterious rock walls of unknown origin, remnants of the White House and the Pentagon. It once housed the Army's 'Society Circus' under the command of George Patton who built the famous Old Post Chapel and also once had Radio Station WAR on its land towering some 600 feet above Arlington County. Spies have visited and have almost been arrested on its grounds. Railroads



Kim Holien on front porch of 1877 two-room structure developed by Montgomery Meigs

ran through it, tanks trained there, and horses still live there along with the Chairman of the Joint Chiefs of Staff and the Army Chief of Staff. The last of the famous 'married quarters for NCO's and their families' built by General Montgomery C. Meigs is still on post as well as in a John Wayne movie.

Our speaker is Kim Bernard Holien who in 1995 became the first, and only, historian of Fort Myer for 18 years. Kim worked 41 years in Federal Service to include four Top Secret positions and 34 years as an Army Historian. For his work he received some 200 awards to include personal ones from President Reagan, Secretary of Defense Weinberger, Secretary of the Army Marsh, Chairman of the Joint Chiefs Dempsey, and three Chiefs of Staff of the Army. Kim has four university degrees and is the author of one book on the Civil War. He was the civilian historian for Staff Rides (in helicopters) to five major Civil War battlefields for the Secretary of the Army and the Army General Staff. In addition he was the Historian for the MacArthur and ANZUS Treaty Corridors in the Pentagon which were one year projects done in ten weeks. ■



Please join us on **Tuesday, January 15**, 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, \$25 for Life members, \$10 for students and \$55 for walk-ins, as space allows. One Professional Development Hour is available to attendees. For questions, please contact [Emily Dean](#). Please click [here](#) to register by **January 9**.

*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.*

### Lead on Climate Change Solutions Before It Is Too Late

By Bill Wallace, M. ASCE

**Reposted with permission of ENR; viewpoint also appears in the Oct. 29 print issue of ENR, p. 64**

Global warming and climate change, subjects we generally don't discuss in polite company or with fossil-fuel industry clients, are in the news again.

A U.N. panel's just-issued report on impacts of global warming 1.5° C above pre-industrial levels – the limit set in

the 2015 Paris agreement – has a strong warning: If sharp cuts in greenhouse gas (GHG) emissions aren't made by 2030, it is essentially game over for many ecological systems and large population sectors. Many coastal communities will be under water. Heat waves, droughts, and forest fires will become more frequent.

Before this report by the Intergovernmental Panel on Climate Change, the generally-accepted target date was 2050 – soon enough for a sense of urgency but far enough away to postpone serious action. Now it's only 12 years off.

If nations aren't in lockstep to make emissions cuts now, there is little

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## President's Corner

Happy New Year, National Capital Section! I hope everyone had a safe and happy Holiday season. We are looking forward to all of our upcoming events in the New Year, especially our January Section Meeting championed by our History and Heritage Committee and of course, Engineer's Week in February.



again be volunteering with Discover Engineering Family Day at the National Building Museum, attending the Engineer's Week Luncheon and Banquet hosted by the District of Columbia Council of Engineering and Architectural Societies, and helping out with the Future Cities competition.

profession we highly encourage you to join us for the ceremony. If you have already taken the oath of the Order of the Engineer, please join us for the ceremony as well to help welcome the newest members. Please reach out to us with questions or for a copy of the application form.

As always we hope to see you at our multiple Engineer's Week events and at all of our events throughout the New Year.

Emily Dean  
ASCE-NCS President

This year, Engineer's Week will be February 17–23. The week is always a busy one, full of activities throughout the week and throughout the area. The National Capital Section will

We will also be hosting a new event this year. Prior to our February Section Meeting we will have an Order of the Engineer Ceremony. If you haven't yet taken the oath to uphold the standards and dignity of the engineering

## 2019 ASCE-NCS Sustainability Award Nomination

The 14th annual presentation of the ASCE-NCS Sustainability Award will recognize either private industry outreach initiatives/projects or public legislation/programs in the metropolitan Washington DC area that advance or promote the responsible and sustainable development of infrastructure, the built environment, or the conservation of natural resources.

### Award/Recognition Criteria

1. The nominated initiative or project advances or promotes sustainable development as defined by the ASCE's Code of Ethics:

*"Sustainable development is the challenge of meeting human needs for natural resources, industrial products, energy, food, transportation, shelter, and effective waste management while conserving and protecting environmental quality and the natural resource base essential for future development."*

2. The nominated initiative or project must adopt a long-term view, cognizant of environmental, social, and economic implications, and places heavy emphasis on the impact of choices made now on succeeding generations.
3. The nominated initiative or project must be located within the geographical limits of the NCS, i.e., the District of Columbia, Maryland (Montgomery County and Prince George's County), or Virginia (Loudoun County, Fairfax County, City of Alexandria, Arlington County)

4. Succinct Description of Initiative (limit to 100 words)

### Your nomination should address the following:

- the name of the public or private entity responsible for the program and

- how the nomination meets the general criteria outlined above.

### The nominating individual must provide:

- his/her name,
- affiliation with entity
- telephone number or numbers, and
- e-mail address,

### All nominations must be submitted by February 15, 2019.

Please submit nominations to (or direct questions to) the Chair of the ASCE-NCS Sustainability Committee, Alex Rosenheim, P.E., M. ASCE, at [tcc-sus@asce-ncs.org](mailto:tcc-sus@asce-ncs.org).

This year's winner will be announced at the ASCE-National Capital Section Annual Awards Banquet on March 19, 2019. ■

## Newsletter

Sumon Chatterjee, Editor

**February 2019 Issue Deadline:** January 21, 2019

**To Submit Articles:** [newsletter@asce-ncs.org](mailto:newsletter@asce-ncs.org)

**NCS eNewsletter Archives:** go to [www.asce-ncs.org](http://www.asce-ncs.org) and view along the sidebar.

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

## National Capital Section

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### Committee Chairs

Please refer to the [NCS website](http://www.asce-ncs.org) for a current list of NCS committees and chairs.

## Lead on Climate Change Solutions Before It Is Too Late

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chance to stay within the warming target. The report says at 1.5° C and below (we're now at 0.8° C), climate-change mitigation and adaptation can be managed. Above that, conditions get really dicey, and fixes are really expensive.

Major GHG sources are in transportation, power and industrial sectors – our clients.

### Different Approach

As engineers who plan, design, build, and operate facilities and infrastructure that produce emissions, we are part of the problem. Clearly, we should be part of the solution. What an opportunity!

We must overhaul our engineering industry with new standards, processes, and methods to radically cut GHG emissions and protect communities, facilities, and infrastructure from devastating climate impacts.

We can build or rebuild transportation and energy systems. We can protect or relocate cities and towns out of harm's way. We have the technological chops. We know what works and what doesn't. Let's do it!

In my naïveté, I thought engineers would jump at the chance to get involved. But response has been, at best sluggish, and at worst, it's denial.

We keep doing what we've always done: respond to proposal requests, do what the contract says and position for the next job. Overwhelming scientific evidence of climate change? So what. All we care about is what's in our scope of work.

How did engineering work get this way? Oddly enough, the answer is stationarity, an obscure but foundational civil engineering assumption about how the world works.



Getty Images

Engineers have always assumed, successfully – until recently, that past environmental conditions are good predictors of future ones. That assumption allowed engineers to plan, design, and deliver long-lived infrastructure, confident that projects would be safe, reliable, and efficient throughout their design life. It allowed them to create codes and standards which, if followed, would produce consistently good results.

### Faustian Bargain

This also created a Faustian bargain between engineers and society: Give us the exclusive right to design and deliver infrastructure, and we will supply specialists indoctrinated and licensed in accepted standards and methods and liable for any deviations.

Tell us what you want, and we'll do it at the expense of our professional souls. To us, new science is interesting but irrelevant. Innovation is doing the same stuff only faster, better, cheaper. Working outside the box targets us for claims and litigation.

This works if conditions are stationary and standards and methods still apply.

But the climate is changing in ways not readily predictable. Non-stationarity is the new normal. Long-held engineering assumptions about environmental

conditions are no longer reliable, so projects may not function the way they're supposed to and can present a significant risk to public health, safety and welfare.

As I stated in a recent New York Times letter to the editor, many of us are sick and tired of trying to convince purposefully ignorant people that the climate is changing and civil infrastructure design must change with it.

Maybe we should just go with the flow and do things as we always have done – apply old design standards and get paid for our work. When infrastructure projects fail, we fix them and get paid again. It's a new take on the old commercial slogan: Pay me now and pay me later.

Or, we could try something different – create new standards, methods and processes needed for infrastructure to work in a changing environment.

Some already are. Olympia, Wash., has an incremental approach to deal with sea-level rise by observing trends and building preplanned responses as needed.

The Federal Highway Administration has created a vulnerability assessment and adaptation framework to help transportation agencies deal with extreme weather and climate effects. California has established the Climate-Safe Infrastructure Working Group to figure out how climate change impacts can be included in infrastructure planning, design, and implementation processes.

As engineers working in the built environment, our choices are clear: Lead, follow or get out of the way. ■

## 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](#).*



## How Do You Get Things Done?

By Ranjit S. Sahai, PE, F.ASCE

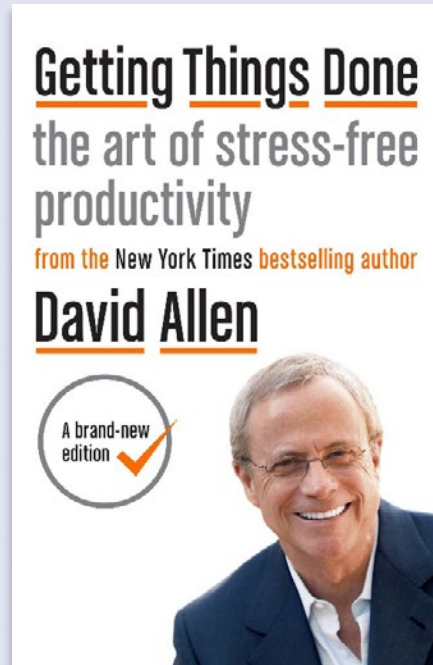
There is just too much information coming your way. Distractions abound. How do you stay on top of your game? How do you get things done?

Keeping a to do list was a start. Then came a system to prioritize the list, but the sense of being overwhelmed remained. Have you ever noticed that when things are unclear, tension builds up and nags you when you least expect it? David Allen in his book *Getting Things Done* elevates the art of time management to a whole new level by recognizing that clarifying things is at the root of keeping that tension at bay, of attaining a state of flow, of staying on top of your game, of getting things done.

He says that when stuff is unclear, it churns in the mind as an open loop. The key is to empty the mind of stuff that occupies it, into a system you value and know you can trust, no matter where you are. The real work of knowledge-work is thinking, he says. He offers a five-step system to master the workflow of incoming information to stay on top of commitments, projects, and next actions.

So what is his GTD (Getting Things Done) system? It consists of capturing 100% of the incompletes into the least number of capture locations, or collection containers, as is possible. *Capture* is Step 1. Getting the incompletes out of your head is the key to removing the state of tension and attaining a state of

flow. The incompletes must be emptied regularly before they pile up and get out of control. The next step helps you mentally process the incompletes to understand them so the quick wins can be won in the moment and the rest



tracked by context and completed in the context you're in, in the time you have available, in consonance with your level of energy, and its capacity to deliver the greatest payoff.

Incoming information, whether from external sources or self-generated, must be clarified so it can be

organized. *Clarify* is Step 2. Questions that can help you clarify the information coming your way is to ask: What is it? Is it actionable? If so, what is the next action? If not, trash it, or file it in a someday/maybe tickler file, or move it to where you can easily retrieve it when you need it.

The next three steps focus on organizing next actions by context; on reflecting upon them regularly to maintain the laser focus you typically experience a week before leaving for vacation when you clean up, close up, clarify, organize, and renegotiate commitments; and on framing your intuitive decision intelligently around pre-defined work, work that shows up, work that is yet to be defined.

The GTD system elevates the art of time management to a whole new level because it helps your mind navigate your life's work in ways the mind works best.

### About the Author

Ranjit, a Past President (2013–14) of ASCE-NCS, is a principal and founder of RAM Corporation, a firm serving State DOTs with a focus on traffic engineering design, stormwater facility inspections, and IT solutions for engineering workflows. He is also an author and speaker.



## ASCE-NCS Newsletter Patrons



**Ethan Grossman**  
**Engineering**

# ASCE-NCS November Meeting Recap

## The U.S. Army Corps of Engineers, Headquarters, Engineering & Construction Division

By Christian Manalo, P.E., F.ASCE, Past President

In November, the U.S. Army Corps of Engineers Engineering & Construction (E&C) Division presented to the ASCE National Capital Section on its Civil

Works mission, including response and recovery efforts associated with recent disasters. The year 2017 was the most active hurricane season in the U.S. in 167 years with 6 major hurricanes. Hurricanes Harvey, Irma, and Maria in 2017 collectively resulted in more than \$250B in damage, and have each joined Hurricanes Katrina and Sandy among the Top 5 most destructive hurricanes to hit the U.S. As a result of the 2017 disasters, the Corps recently received an additional \$17B in supplemental funding to be directed toward preparedness and recovery efforts.

Senior Engineer Dr. Chandra Pathak, P.E., D.WRE, F.ASCE, first presented an overview of the Corps' mission and operations. This was then followed by Civil Works Branch Chief Bob Bank, P.E., F.ASCE, who discussed in detail the Civil Works mission and supplemental funding. Engineer Micah Buchholz, P.E., then discussed his work as E&C's liaison to the HQ Emergency Operations Center, support of hurricane and wildfire response and recovery efforts, and recent innovative flood inundation prediction tools.

Details of the 2018 Civil Works supplemental funding can be found on the following website: <https://usace.contentdm.oclc.org/digital/collection/p16021coll5/id/1495/>. ■



Dr. Chandra Pathak, P.E., D.WRE, F.ASCE U.S. Army Corps of Engineers, Engineering & Construction Division

## Order of the Engineer

By Phillip Melville

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession. The goal is to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. Participants take the Obligation of the Engineer and receive a steel ring to be worn as a reminder of their commitment to high ethics and professionalism.

ASCE is an official Link of the Order of the Engineer, which means it is authorized to conduct Ring Ceremonies at

national events and in conjunction with sections and branches. Eligibility requirements are established by the Order of the Engineer organization, which governs the program. Anyone who meets one of the following criteria may be inducted into the Order:

- Graduate in engineering from an engineering program accredited



Sam Oke receives ring from ASCE President (2012-13) DiLoreto

by the Engineering Accreditation Commission of ABET, Inc. (EAC of ABET) (Check to see if your school is included.)

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## Order of the Engineer

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- Senior in EAC of ABET-accredited engineering program within one academic year of graduation

- Professional Engineer licensed in the United States

- Member of the Canadian Calling

The ASCE National Capital Section conducts ring ceremonies for engineers. To receive your ring at an ASCE NCS

conducted ring ceremony, [email](#) us with the following information for details on the next ring ceremony:

- i. Your name

- ii. Your mailing address

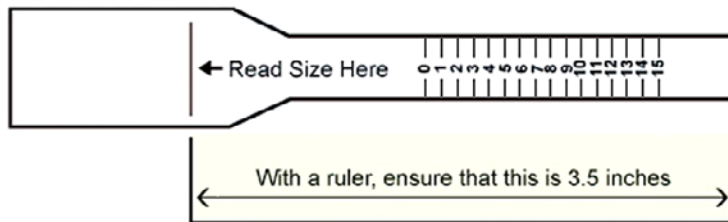
- iii. Professional credentials (PE, PLS, EIT, PhD, Other \_\_\_\_ ) to appear on your certificate

- iv. Identification of the criteria (from the above bulleted list) and name of school or state of registration that qualifies you to receive the ring.

- v. Ring size. A ring sizing tool is provided below; or click [HERE](#) to download it. ■

### CUT-OUT RING SIZER

PRINT AND CUT OUT THE RING SIZER TO HELP YOU FIND YOUR RING SIZE.



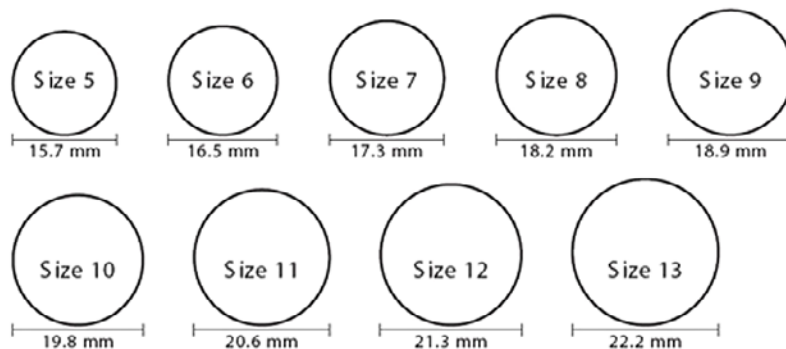
### RING SIZE:

A MEASUREMENT, GENERALLY BETWEEN 4 AND 13, DETERMINED BY TWO FACTORS: THE DIAMETER OF THE FINGER ON WHICH THE RING WILL BE WORN AND THE KNUCKLE, WHICH THE RING MUST SLIP OVER COMFORTABLY.

PRINT THIS PAGE AND CUT OUT THE RING SIZER IMAGE PROVIDED HERE. WRAP THE RING SIZER AROUND YOUR FINGER WITH NUMBERS FACING OUT AND THEN USE TRANSPARENT TAPE TO FIX IT IN PLACE. TEST THE RING SIZE BY PUTTING THE PAPER RING SIZER OVER THE KNUCKLE. WHEN YOU HAVE FOUND A GOOD FIT, NOTE THE RING SIZE NUMBER THAT APPEARS AT THE END OF THE TRIANGLE.

### RING SIZES

PRINT THIS PAGE AND CUT OUT THE RING SIZER IMAGE PROVIDED HERE. WRAP THE RING SIZER AROUND YOUR FINGER WITH NUMBERS FACING OUR AND THEN USE TRANSPARENT TAPE TO FIX IT IN PLACE. TEST THE RING SIZE BY PUTTING THE PAPER RING SIZER OVER THE KNUCKLE. WHEN YOU HAVE FOUND A GOOD FIT, NOTE THE RING SIZE NUMBER THAT APPEARS AT THE END OF THE TRIANGLE.



# ASCE-NCS Committee and Branch News and Updates

## ASCE-NCS Reston Branch

By Shainur Ahsan, PE, M. ASCE, Reston Branch Vice President

On November 8th, Michael Fontaine, PhD, PE, Associate Director at the Virginia Transportation Research Council, presented on the "Overview of the Virginia Department of Transportation Safety, Operations, and Intelligent Transportation Systems Research Program." He discussed recent initiatives to improve safety and congestion along I-81 and I-66. He also discussed how traffic data is collected and used to assist the agency.



The Branch held an end of the year member social, organized by Chris Friend, at the Lake Anne Brew House on December 13th which was attended by approximately 15 people.

Matt Bechtel, Branch Secretary, organized a question and answer panel for the Region 2 Assembly held at George Mason University on November 17. The panel was primarily for students and consisted of discussing questions and issues related to the transition from life as a student to a professional. Matt Bechtel, and Shainur Ahsan, Branch Vice-President, participated in the panel.

The next meeting will be held on January 9th at the ASCE Headquarters

in Reston, VA, with sign-in starting at 11:30am. Vanessa Aguayo from the Capital Projects & Traffic Engineering Department of the Fairfax County Department of Transportation will be presenting on a proposed Bus Rapid Transit (BRT) route along the Richmond Highway corridor. Please see the Reston Branch webpage for more information. One PDH will be awarded to attendees.

### Upcoming Events

- **January 9th:** Reston Branch Meeting – Vanessa Aguayo, PE, Transportation Planner at Fairfax County DOT – Bus Rapid Transit on Richmond Highway
- **February 12th:** Reston Branch Meeting – Michael Loulakis, President/CEO of Capital Project Strategies, LLC – P3/Design-Build

### ASCE NCS Education Committee – Collegiate

Submitted by: Jameelah M. Ingram, PE  
Happy New Year from the ASCE NCS Education Committee! We would like to reflect on activities from last year and announce upcoming events for this year:

### 2018 Region 2 Assembly

By: Sarah Shay (GMU ASCE President) & Andres Izquierdo (GMU ASCE Vice President)

The 2018 Region 2 Assembly took place on November 17th at George Mason University. Over 100 students, faculty advisors, practicing engineers, and ASCE leadership attended from a total of seventeen universities and various companies from across Pennsylvania, Maryland, Delaware, the District of Columbia, and Virginia.



Attendees participated in a variety of leadership-themed sessions that covered an array of topics. The keynote on engineering leadership was given by Brig. Gen. Joseph Schroedel, P.E., F. SAME, who inspired our attendees to consider all aspects of leadership and how our everyday interactions with colleagues and even small tasks can be leadership moments. Attendees heard various lectures including mentoring advice (led by NASA Support Scientist Dr. Amal El Akkraoui), effective communication tips (led by Norine Walker, P.E.), asset management (led by Dr. Eshan Minaie), and ASCE public policy and resources (led by Hannah Clark and Aaron Castelo). Students were engaged with a break out session led by GMU faculty member Dr. Elise Miller Hooks entitled "Envisioning the Future," in which students were asked to re-imagine the infrastructure of society. Additionally, various panels on civil engineering entrepreneurship and life after college were presented. GMU ASCE would like to thank all of the guest speakers and participants who came to this year's assembly. The overall event was a success thanks to the hard work and dedication of the officers on the GMU ASCE executive board aided by our faculty advisor, Dr. Liza Wilson Durant.

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## ASCE-NCS Newsletter Patrons



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The following schools were represented at the event: Drexel University, George Mason University, George Washington University, Howard University, Morgan State University, Penn State – UP, Temple University, University of the District of Columbia, University of Maryland: College Park, University of Pittsburgh, Villanova University, Widener University, and York College.

### 2019 ASCE NCS Scholarship Application

ASCE-NCS announced the call for nominations for the 2019 ASCE-NCS Scholarship Application to all ASCE-NCS Student Chapter Faculty Advisors and Civil Engineering Department Chairs in November 2018. Students should consider reaching out to the Faculty Advisor at their college or university for application packages and eligibility requirements. Applications are due by COB on Friday, February 8, 2019.

### 2019 Virginias' Conference – Call for Volunteers

By: Sarah Shay (GMU ASCE President) & Andres Izquierdo (GMU ASCE Vice President)

The 2019 Virginias' Section Regional Student Conference will be held from Thursday, March 28th through Friday, March 29th at George Mason University. Local engineer volunteers are needed to judge the Concrete Frisbee and Blue Sky Competition on Friday, March 29th. Additional assistant judges may also be needed for the Concrete Canoe Competition which will be hosted at Fountainhead Regional Park on Friday, March 29th. Please contact the student event planning committee at [asce@gmu.edu](mailto:asce@gmu.edu) if you are interested in volunteering!

### 2019 Virginias' Conference – Competition Information

**Blue Sky Competition:** The Blue Sky Competition is new for 2019. The goal of this competition is to identify visionary ideas, which address long-term engineering challenges, and to explore ideas for student competitions that will influence the future of ASCE's Student Conferences (*American Society of Civil Engineers*, accessed 18 December 2018)

**Concrete Canoe Competition:** Since the early 1970s, ASCE student chapters have been constructing and racing concrete canoes. During that time,

canoe mixes and designs have varied, but the long-established tradition of teamwork, camaraderie, and spirited competition has been constant. Teams, their associates, judges, and all other participants are expected to maintain and build upon this tradition. (Source: [Committee on National Concrete Canoe Competitions, 2019 American Society of Civil Engineers National Concrete Canoe Competition Rules and Regulations](#), accessed 18 December 2018)

### Concrete Frisbee Competition:

ASCE Student Members will design a frisbee composed of concrete with aesthetics, durability and efficiency in mind.



### Younger Members Forum

By Haralamb Braileanu, MS, EIT, CSSBB, YMF Co-Secretary/Newsletter 2018–2019

### Monthly Happy Hours

The NCS Younger Members Forum (YMF) holds monthly happy hours, generally alternating between Arlington, VA, and Washington, DC. Happy hours are usually the first Wednesday of each month unless a holiday falls during that week.

The NCS YMF enjoyed some food and drinks at the November ASCE YMF happy hour at [Crafthouse](#) in Arlington-Ballston, VA, on November 7th, 2018. Several members attended the event and shared great conversation over appetizers and very oversized pretzels.



Join us for our next ASCE Happy Hour sponsored by the Younger Members Forum at [Buffalo Billiards](#) on Wednesday, January 9th, 2019, with free appetizers and drink specials. Can't make next month's happy hour? Be sure to look out for emails for the upcoming February happy hour. In any case we will see you in the New Year.

### Social Events

Any one interested in social running? A group from Water P. Moore in Washington, DC, take part in Friday afternoon runs and they would like to have others from nearby offices join them. Runs begin at 1747 Pennsylvania Ave NW, at 4:30 pm. If you are interested, please reach out to [Mia Jimenez](mailto:mjimenez@walterpmoore.com) ([mjimenez@walterpmoore.com](mailto:mjimenez@walterpmoore.com)).

### Professional Events

The YMF board is planning upcoming professional development events for 2019. If you have suggestions for professional development meeting topics, or would like to become more involved with the YMF in other areas, please contact the YMF President at [ncsymf-president@gmail.com](mailto:ncsymf-president@gmail.com).

### Stay Connected!

Check out photos and stay up-to-date with YMF events by visiting the new [YMF Facebook](#) page. Also, follow us on [Twitter](#) (@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 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 email the [YMF President](#).

### Educational Committee K-12

Victor I. Crawford, P.E., M.ASCE

### Showing Off Our Profession to the Next Generation

Discover Engineering Family Day at the National Building Museum will be February 16, 2019, and we need your help. This will be the major event in 2019 for reaching out to thousands of students from the DC area. With the Dream Big movie kits going out to schools across the area in 2019, students and their parents will be doing Windy City, an exercise taken directly from the movie.

This exercise provides challenges to students in building a structure that can remain standing in a strong wind, while teaching them about how our civil engineering profession benefits the public.

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

### January 9

**YMF Happy Hour**, 6–8 pm, Buffalo Billiards, Washington, DC. Celebrate our monthly happy hour and network with members. Look for an email announcement for upcoming happy hours and YMF events.

### January 15

**NCS Section Meeting**, 6:30–8:30 pm, Hilton Arlington. Kim Bernard Holien will be our guest speaker, who in 1995 became the first, and only, historian of Fort Myer for 18 years and it is a must for history and heritage fans. Look for additional information in a future month's newsletter.

### January 16

**NCS Transportation Committee Meeting**, 11:45–1:15 pm, WSP DC Office. Robert Poole will be our guest speaker, who received the ENO Center for Transportation's Thought Leader Award in May 2018. With transportation being a major discussion topic across the nation, this must attend event's focus is on a 21st century

vision for America's highways. A review of his recent book "Rethinking America's Highways" was published in the October 2018 edition (Page 3) of the NCS newsletter.

### January 25 to 26

**Regions 1, 2, 4 and 5 MultiRegion Leadership Conference in Orlando, FL.** The conference includes Workshop for Section and Branch Leaders (WSBL), the Eastern Region Younger Member Council (ERYMC) and the Workshop for Student Chapter Leaders (WSCL). More information will be available in the next newsletter.

### February 6

**YMF Happy Hour**, 6–8 pm, Bluejacket Brewery, Washington DC. Celebrate our monthly happy hour and network with members. Look for an email announcement for upcoming happy hours and YMF events.

### June 9 to 12

**T&DI Conference.** The Transportation & Development

Institute (T&DI) of ASCE is hosting its flagship conference in the national capital region at the Hilton Mark Center in Alexandria, Virginia. The Conference Steering Committee is seeking a local representative to participate as a member of the Conference Steering Committee. The local representative sets up a Local Organizing Committee (LOC), that helps recommend and organize technical tours for the conference, and also helps promote the conference for sponsorships and exhibits by local organizations. Through the course of the next few months, T&DI will need National Capital Section's help to promote the conference at its events, and through its newsletter, eblasts, and other means of outreach and promotion. The immediate need for promotion is for the call for abstracts which was recently released. Further information is available on the conference website at [www.asce-ictd.org](http://www.asce-ictd.org).

## ASCE-NCS Committee and Branch News and Updates

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Please contact [victor.crawford51@gmail.com](mailto:victor.crawford51@gmail.com) to become a volunteer at this educational event held on a Saturday. You will be joined by engineers from Bechtel and staff from ASCE Headquarters. Following the event, Bechtel will be hosting an event to thank the volunteers. Once again, we want to thank Bechtel for sponsoring the Dream Big movie and ASCE Headquarters staff for supplying the material for the Windy City exercise. Remember, not only does this exercise highlight how we do engineering to inspire the next generation, but you will have a lot of fun showing off our profession and how we benefit the public.

For those that have more time, we are continuing to work with the American Association for the Advancement of Science (AAAS) program for STEM, which has been bring engineers and scientists into classrooms for over eleven years (<https://www.aaas.org/programs/STEM-volunteers>). Please consider becoming a AAAS volunteer in supporting STEM in the school districts in the DC metro area, including surrounding



Discover Engineer Family Day from 2017

counties in both Virginia and Maryland. If you are interested in giving back to the profession, while sharing the joy of engineering to eager young minds, please contact Victor I Crawford at [victor.crawford51@gmail.com](mailto:victor.crawford51@gmail.com).

### 2019 AEI Conference (Tysons, Virginia, April 3–6, 2019)

The Architectural Engineering Institute (AEI) of ASCE, in partnership with Penn State College of Engineering is pleased to announce the 2019 AEI Conference: "Integrated Building Solutions – The National Agenda." This conference

offers an opportunity for members of the building construction industry to learn about and discuss advanced strategies and state-of-the-art practices of building technology. Network with industry experts, emerging professionals and future leaders while earning valuable PDHs!

Visit the following links to register or be a key sponsor or exhibitor today!  
[Sponsorship and Exhibit Prospectus](#)

**Plenary Keynote Speaker:** Kevin Kampschroer, Chief Sustainability Officer, and the Director, Office of Federal High-Performance Buildings, US General Services Administration

**Thursday Luncheon Keynote Speaker:** Scott Radecic, LEED®AP, Populous, *Integrating Data and Design: The Future Stadium*

**Friday Luncheon Keynote Speaker:** Heather Wishart-Smith, P.E., PMP, LEED AP BD+C, F.ASCE, Jacobs, *What If? Design Attitude in the Age of Digital Disruption.* ■