

### Beneath Our Streets: the Northeast DC Boundary Tunnel

The Northeast Boundary Tunnel is part of a \$2.7 billion program by DC Water to mitigate combined sewer overflow (CSO) discharges into the Anacostia and Potomac Rivers and bring flood relief to NE Washington D.C. The tunnel is a challenging alignment with 15 curves, shaft entry and exit, and only one shaft online in a lengthy 26,737 ft. to check alignment. The tunnel and all associated structures are designed with a 100-year service life. The tunnel and all shaft support are designed by Salini Impregilo Healy/Lane Construction while the remaining permanent structures are designed by DC Water.

The work environment for the shaft construction along Rhode Island Avenue is challenging with six small shaft sites combined with urban residential neighborhoods and a high traffic corridor. Another two shaft sites are under construction at W Street NE and at Mount Olivet Road. A tunnel boring machine (TBM) uses a conveyor belt to remove debris in the tunnel and with a 17 cubic yard clamshell at the shaft.

The project will be presented by Shane Yanagisawa, P.E. who is the Project Director for the designer/buildier Salini Impregilo Healy/Lane Construction.

Shane graduated from Rice University in 1979 with a Bachelors in Civil Engineering. After working as a structural designer, Shane went back to school at the University of Texas at Austin and obtained a Masters in Construction Engineering. Since then, he has worked in many roles at many firms specializing in tunnel construction and is currently the Project Director for Lane Construction on the Northeast Boundary Tunnel. Shane's tunnel portfolio range in size from 14 to 32 ft in diameter and up to 28,000 ft long. Shane is a registered professional engineer in TX, WA, CA, MI, and AZ and has taught classes regarding tunneling at the Colorado School of Mines. ■



Please join us on **Tuesday, November 19** 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 6:00 to 6:45pm, 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. For questions, please contact [Kelly Cronin](#). Please [click here](#) to register by **Wednesday, November 13**.

*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.*



## President's Corner

My husband and I welcomed our second daughter this past July. I have been fortunate enough to have maternity leave for several weeks, so I've been able to spend time with my family before returning to work. With the Thanksgiving holiday this month, I have a lot to be thankful for. In addition to my family, friends, and co-workers, I am thankful to be part of the ASCE organization. I was active with ASCE in college, and when I started working in a new city, I was welcomed into the NCS YMF (Younger Members Forum) as a young professional. There I met fellow civil engineers who welcomed me into their community. Through ASCE, I was also given the opportunity to take on leadership roles. The numerous ASCE NCS events that I have been a part of have allowed me to network, continue to learn, and become a better engineer.



I knew I wanted to be an engineer since I was in high school. Unfortunately, many children don't know enough about our profession. One of our initiatives within ASCE, and particularly NCS, is exposing children grades K-12 to the civil engineering profession through STEM activities and outreach. NCS helped fund Dream Big toolkits for each of the high school and middle schools in our section. We hope to teach young boys and girls about the varied fields that comprise civil engineering. In April 2020 we plan to be a part of the USA Science and Engineering Festival. I encourage our members to volunteer for local STEM events.

NCS has five great universities within our section: George Mason University, Catholic University, Howard University, George Washington University, and

University of the District of Columbia (UDC). Each university has its own ASCE student chapter. NCS has been working to bridge the gap between student membership and professional membership. This October we sponsored a resume workshop for students to help them prepare their resumes for career fairs and job interviews. This spring we plan to hold our third annual Coffee & Connections at a coffee shop in DC to facilitate conversations between students and professional members. This has been a great event in the past; look out for more information on being involved with this event coming this spring. In the meantime, invite your younger coworkers to an ASCE NCS event – we love seeing new faces!

Sincerely,

*Kelly Cronin, PE*  
*ASCE NCS President*

## Looking Ahead at ASCE Conferences and Events

Refer to the [ASCE HQ Events Page](#) for more information.

**December 2–6, 2019**  
Reston, VA

**Geo-Institute Live-Streaming Web Conferences 2019**

**January 31 – February 1, 2020**  
Philadelphia, PA

**Regions 1, 2, 4, & 5 Multi-Region Leadership Conference**

**February 19–22, 2020**  
Los Angeles, CA

**2020 Construction Institute Summit**

**February 25–29, 2020**  
Minneapolis, MN

**G-I Geo-Congress 2020**

**March 12–13, 2020**  
Washington, DC

**Industry Leaders Council**

**March 13, 2020**  
Washington, DC

**Opal Awards Gala**

**March 14–15, 2020**  
Washington, DC

**ASCE Board of Direction Meeting**

## Newsletter

**Maria Raggousis, Editor**

**November 2019 Issue Deadline:** October 16, 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

### Officers (2019–2020)

**Kelly Cronin, President**  
**Mike Venezia, Vice President**  
**Vic Crawford, Treasurer**  
**Jameelah Ingram, Secretary**  
**Emily Dean, Past President**  
**Brian Barna, Previous Past President**  
**Maria Raggousis, Newsletter Editor**  
**Joe Whartenby, YMF President**

**Norine Walker, Director**  
**Elizabeth Wheeler, Director**  
**Lisa Anderson, Director**  
**Tricia Wolfbauer, Director**  
**Shainur Ahsan, Reston Branch President**

### Committee Chairs

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

# United Nations Sustainable Development Goals

William E. Kelly, Ph.D., P.E., M. ASCE, member of the American Society of Civil Engineers (ASCE) Committee on Sustainability and practitioner adjunct faculty member teaching sustainability at George Mason University was the guest speaker at the ASCE-NCS's October 2019 Dinner Meeting held at the Arlington Hilton. Dr. Kelly discussed the United Nations Sustainability Goals and the ASCE's international sustainability efforts.

Dr. Kelly began with an overview of the United Nations Sustainability Goals. He pointed out that the United Nations Sustainable Development Goals (UN SDGs) are driving and *will drive* global development over the next 10 years. They have initiated the "Decade of Action; Agenda 2030 and beyond". The focus will be on establishing that civil engineering is integral to the goals and their success – infrastructure underpins all of the SDGs. Infrastructure is needed to achieve the UN SDGs globally and is already important to leading U.S. based and global firms. The SDGs are important to ASCE and its global partners as they work to ensure that all infrastructure is sustainable and resilient. SDGs should be important for all civil engineers and future civil engineers.

Dr. Kelly discussed how the ASCE Sustainability efforts is an extension related to the ASCE Code of Ethics. The first canon of the ASCE Code of Ethics states that engineers shall hold paramount the safety, health and welfare of the public and shall strive to comply with the principles of sustainable development in the performance of their professional duties. ASCE Policy Statement 418 clarifies the society's



formal definition of sustainable development. The ASCE defines sustainability as a set of economic, environmental and social conditions (aka "The Triple Bottom Line") in which all of society has the capacity and opportunity to maintain and improve its quality of life indefinitely without degrading the quantity, quality or the availability of economic, environmental and social resources. Sustainable development is the application of these resources to enhance the safety, welfare, and quality of life for all of society. ASCE works on a global scale to promote public recognition and understanding of the needs and opportunities for sustainable development and contribute to health communities.

ASCE's Policy Statement 517 formalizes the interconnected goals of the ASCE and the United Nations Sustainable Development Goals. ASCE works in collaboration with the United Nations, other domestic and international organizations to engage engineers in addressing the needs of disadvantaged communities through capacity building

and the development of sustainable and appropriate solutions to poverty.

In 2016, the ASCE Committee on Sustainability established the Roadmap to Sustainable Development. The roadmap is based on Four Priorities:

- (1) *Do the Right Project* considering all possible alternatives,
- (2) *Do the Project Right* developing new performance-based standards and protocols that address sustainability and resiliency of infrastructure,
- (3) *Build Capacity* transforming civil engineering practices to support the visions and principles of sustainable development and
- (4) *Advocate* by communicating with all stakeholders and to promote transformation of the civil engineering profession.

The end goal is a membership and public that demand environmentally, economically, and socially sustainable  
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## United Nations Sustainable Development Goals

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infrastructure that meets the needs of human welfare equitably and enables healthy thriving communities. The UN Sustainable Development Goals has an integrated approach to development. Goals and targets are linked. A systems approach is needed. The Development Goals are broken into 17 categories. ASCE takes particular interest in Goal 9: "Build Resilient Infrastructure, Promote Inclusive and Sustainable Industrialization and Foster Innovation. This will entail developing quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all and by 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

As a way of implementing the goals, the United Nations have created institutions to develop, implement and track sustainable development. A United Nations Economic and Social Council held their annual high-level political forum in New York in July 2019. The theme was "Empowering people and ensuring inclusiveness and equality". The 2019 Science, Technology and Innovation Forum focused on the role of science and technology in achieving the SDGs.

Global Sustainability Development Reports have been created to track

the progress and provide guidance for future actions and activities. Since the 1992 United Nations Conference on Environment and Development (known as the Earth Summit), it was recognized that sustainable development would require a wide variety of major groups and sectors including Women, Children and Youth, Indigenous Peoples, Non-Government Organizations, Local Authorities, Workers and Trade Unions, Business and Industry, the Scientific and Technology Community and Farmers.

One of the Non-Government agencies that the United Nations coordinates their efforts with to further their goals is the World Federation of Engineering Organizations (WFEO). The WFEO United Nations Relations Committee was created with a main objective is to fulfill feasible programs and measures with a focus on sustainable development, climate change, environmental issues and disaster risk reduction. The committee concentrates its activities with various agencies including ECOSOC, UNCSD, UNISDR, UNFCCC, UNDP, UNESCO, WMO, OECD, UNISDR and the World Bank.

ASCE will be focusing its efforts for fulfilling its sustainability goals and meeting United Nations targets at it's International Conference of Sustainable Infrastructure in Los Angeles, CA in November 2019.

### Speaker Biographical Information

**William E. Kelly, Ph.D., P.E., M.**

**ASCE**, recently retired as director of external affairs at the American Society

for Engineering Education (ASEE). At ASEE, his responsibilities included the engineering dean's council, ASEE's K-12 activities, and ASEE's ABET activities. Prior to joining ASEE in September of 2007, he was a professor of civil engineering at the Catholic University of America in Washington, D.C. where he also served as dean of the school of engineering from 1996–2001. While dean, he served on the JETS board and the board of directors for the Washington ACE mentor program. Dr. Kelly was on the ABET Engineering Accreditation Commission (EAC) from 1993–2003 and was chair in 2001–2002. Currently he is a member of the American Society of Civil Engineers (ASCE) Committee on Sustainability and is teaching sustainability as a practitioner adjunct faculty member at George Mason University. He is also on the Board of Directors of the Civil Engineering Certification Board. Dr. Kelly received his Ph.D. in civil engineering from the University of Notre Dame and received an engineering honor award from his alma mater in 1999.



### Additional Information

Dinner Meeting Presentation Slides: <https://docs.google.com/presentation/d/1cQtWHpvmP6uyTHWUCwjiFbgpA-ssdKwpU5oTjmrGdrQ/edit#>

## ASCE-NCS Newsletter Patrons





## F.E. Stands for Fundamentals of Engineering: FE-Exam Day Experience

In this month's article we would like to answer many of our readers' questions regarding the Fundamentals of Engineering (F.E) exam and what you are expected to do that day.

The Fundamentals of Engineering (FE) exam is generally your first step in the process to becoming a professional licensed engineer (P.E.). It is designed for recent graduates and students who are close to finishing an undergraduate engineering degree from an EAC/ABET-accredited program. FE exam is a computer-based test (CBT) administered by the National Council of Examiners for Engineering and Surveying (NCEES).

When approaching the FE Exam for the first time, it's natural to feel a bit overwhelmed. The best way to build your confidence is to prepare for the test and familiarize yourself with the **FE Ref. Handbook 9.5**, the only official reference material for the computer-based FE exams. Review the latest version of the handbook (currently v.9.5) prior to exam day. Most importantly, familiarize yourself with the charts, formulas, tables, and other reference information provided. An electronic version will be available onscreen during the actual exam. Printed copies will not be allowed in the exam room.

Once your registration is approved, you will receive an email notification that you have been authorized to take the exam and are eligible to schedule your exam appointment. NCEES computer-based tests (CBT) are offered in testing windows throughout the year during the following months: January, February, April, May, July, August, October and November.

### Exam day experience

Once you register and know your exam date, NCEES recommends the following: First, you should plan to arrive at the testing center 30 minutes prior to your scheduled appointment. Upon arrival, a representative will provide you with a copy of NCEES-CBT exam rules for your review.



With Civil Engineering Students at George Mason University (CEIE-404)

After doing so, you will be asked to provide your digital signature to confirm that you have read the rules and agreed to abide by them. Also, you will be asked to provide a current government issued form of ID such as a driver's license. Once the representative has confirmed your identification and the exam that you are taking, you will be asked to provide a palm vein scan and have your photo taken. Your signature, palm vein scan, and photo will be stored with your exam result.

Prior to be admitted into the testing room, a representative will insure that you have only the items that NCEES allows in the testing room. These items include your ID, an NCEES approved calculator, and eye glasses. Most test centers have secure storage lockers on site for you to store prohibited items such as cell phones, other electronic devices, and personal belongings such as a watch, wallet, and bag.

Once you complete the check in process, then you report to an exam proctor who will ask you to confirm your ID by providing your palm vein scan again. Then the proctor will give you a reusable booklet and marker for scratch work. The proctor will then review the exam rules, escort you to the exam room and assigned work station, and launches the exam. Before starting your exam, all examinees will be required to read and agree to the NCEES' non-disclosure agreement and complete a brief tutorial to learn how to ADVANCE to the next item, RETURN to a previous item, and FLAG items for review.

The FE exam includes 110-questions. The exam appointment time is 6 hours long. Nondisclosure agreement (2 minutes); Tutorial (8 minutes); Actual exam (5 hours and 20 minutes), and scheduled break (25 minutes).

After completing approximately 55 questions, examinees will be prompted on screen with the option to take a 25-minute break. Examinees who wish to take the scheduled break should raise their hands and wait for the prompter for assistance. Unscheduled breaks may be requested at any time during the exam by following the same procedure. However, examinees should be aware that clock will not stop during an unscheduled break. Examinees are allowed to access their lockers during the scheduled and unscheduled breaks.

After completing the exam and a brief survey, you should raise your hands and the proctor will verify that you had properly exited from exam, escort you from testing room, and will collect your booklet and marker. You will receive an email from NCEES within 7 to 10 days notifying you that your results are available for viewing in your MYNCEES account.

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

Until next time,  
Ahmet Zeytinci (Dr.Z.)  
[az@akfen.com](mailto:az@akfen.com)



# The Future of Professional Engineer Seals – III

By Ranjit S. Sahai, PE, F.ASCE

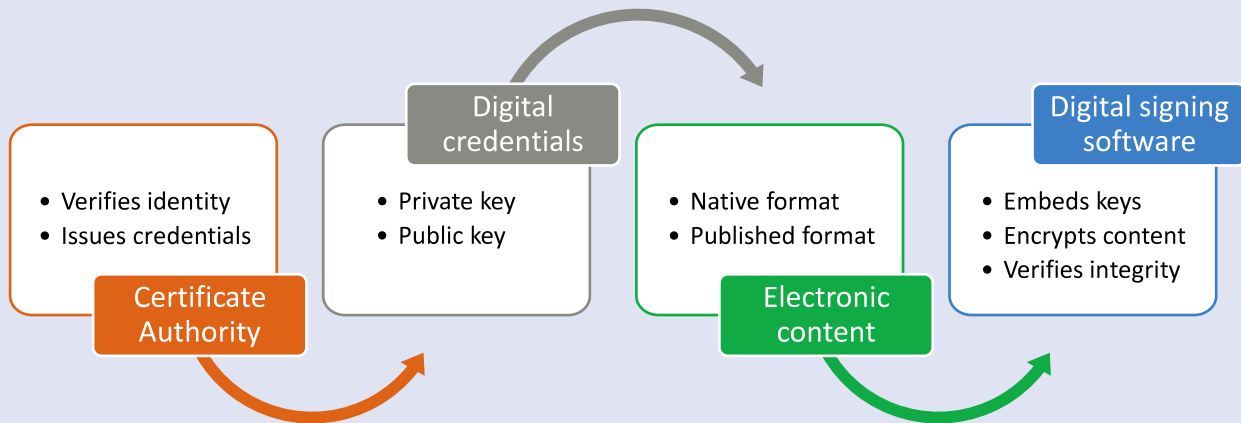


Fig. 1: Infrastructure components that enable the issuance and use of digitally signed electronic content.

When you scribble your name at a cashier’s point-of-sale terminal, the generated image is an electronic signature – not a digital signature. The process of generating a digital signature requires digital signing software, electronic content, digital credentials, and a Certificate Authority – not a touch-sensitive image capture panel.

### Certificate Authority (CA)

A Certificate Authority is an entity that issues digital credentials and is trusted by the issuer and the user of electronic content. A list of credential issuers can be found [here](#). You can also issue your own credentials for mutual use among trusting parties, such as in a corporate setting between project team members.

### Digital credentials

A digital credential is a pair of electronic files containing binary numbers: a private key and a public key. These are generated by a CA. Your private key resides on electronic media, e.g. computer or portable drive that you possess and safeguard. The public key is made available by the CA publicly on the Web. Think of this key pair as the two keys, one kept by you and the other by the bank, to open your bank safe deposit box.

### Electronic content

Any document, drawing, presentation, report, sketch, spreadsheet, or other visually perceptible electronic

content can receive digital signatures. Electronic content is created in native format, e.g. docx, dwg/dgn, pptx, jpg, xlsx, or other. To be signed digitally, this content must be rendered in a published format, the most prevalent being the Adobe pdf format.

### Digital signing software

The most prevalent software used to apply digital signatures to documents published in the pdf format is Adobe Acrobat. It imports public keys from signed electronic content. It verifies and accepts private keys from Certificate Authorities. It supports self-generated digital signature keys. It verifies the validity of signatures and the integrity of content.

In the next installment of this article we will walk through each step, with

narrative and illustrations, that demonstrates the process of creating digitally signed content. The process we will review consists of:

- Importing or creating credentials
- Viewing credential details
- Configuring digital signature appearance
- Applying digital signature

The process of sealing engineering drawings is similar. It combines a digital signature with the image of a Professional Engineer Seal that includes your name, license number, and the issuing State.

Though the infrastructure underlying digital signature technology, like that of the electric grid, is vast and complex, the process of creating and applying digital signatures, like plugging in and turning an electric appliance on and off, is short and simple.

### 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.

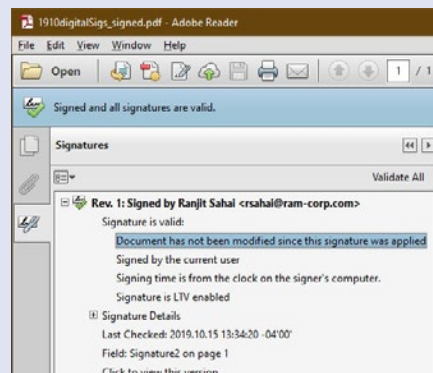


Fig. 2: Digital signing software also verifies signature validity and content integrity.

# ASCE-NCS Committee and Branch News and Updates

## Construction Committee

The Chair of the Construction Committee, Ivan Carrasco, invites you to participate in the first meeting of the season! The event will be a joint Interest and Planning Meeting over dinner at [Cosi in Ballston](#) (3250 Fairfax Drive, Arlington VA 22203). Please join us to help plan our next events, and have an impact on a great committee. The meeting will be held on December 5th, 2019 with networking starting at 7:00 PM followed by dinner. The program will conclude by 8:30 PM. Please reach out to [Ivan](#) with any questions. We look forward to seeing you there!

## Reston Branch

By Christopher J. Friend, P.E., Reston Branch Vice President

On October 8th, the Reston Branch hosted Javeed Munshi for a lunch technical presentation. The program focused on the use of concrete as a structural building material, highlighting lessons learned on the materials, design and construction related aspects of concrete. Javeed Munshi, Ph.D, P.E., S.E, F. ASCE, F. ACI, F. SEI, is a Senior Principal Engineer and serves as the lead Corporate Concrete Structures Specialist across Bechtel enterprise in terms of setting standards for quality, efficiency, automation, and innovation in concrete construction. As his lead company's resource for their internal and external customers, he helps to resolve the most critical and challenging technical issues that arise along various phases of concrete production and placement during project execution. This experience, coupled with his contributions to industry codes, standards, publication and education, provided a worthwhile and entertaining presentation.

On November 4th, the Reston Branch will host Brian Pailes (Principal Engineer for Vector Corrosion Services) for a lunch technical presentation. The meeting will discuss corrosion mitigation and repair techniques for concrete structures. It will also highlight projects in the Northern Virginia area that Brian's company, Vector Corrosion Services, has assisted in providing corrosion mitigation and concrete repairs – including the Arlington Memorial Bridge.

The Reston Branch has recently launched a [group](#) on LinkedIn to provide

regular updates for the branch as well as offer a place for branch members to connect. See the following link for additional information: <https://www.linkedin.com/groups/13759693/>



## Younger Members Forum

By Sarah Shay, YMF Secretary/Newsletter

**Monthly Happy Hour:** 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.

This month, the NCS YMF enjoyed an Octoberfest themed night at [Dacha Navy Yard](#) in Washington, DC on October 2nd. Several members attended the event and shared great conversation over appetizers.



The group will host their next happy hour on November 6th at [Crafthouse](#) near Ballston metro stop in Arlington, VA. The event starts at 6PM, and we would love to see you there!

**Professional Development:** 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 [ncsymfpresident@gmail.com](mailto:ncsymfpresident@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? 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.

## Architectural Engineering Committee

By Camille Stefani, EIT, M.ASCE

Architectural Engineering Institute (AEI) NCS committee is aimed to promote the integration of architectural, engineering, and facilities professionals with their peers and individuals entering the local industry.

Thank you again to everyone who attended our walking tour of interdisciplinary design projects in south-eastern DC at the end of September. If you attended, we are looking for your feedback on what you enjoyed, or maybe want to see next time! Please consider taking a few minutes to give us feedback about the event [here!](#)

This November we will be hosting two events, including a community focused event with the Younger Members Group of the Structural Engineers Association of Metro Washington at DC Central Kitchen on November 12th at 5:00 PM. We will be working with SEA-MW YMG to prepare meals during our shift at Central Kitchen's capitol hill location. Every day, volunteers at DC Central Kitchen work to prepare 3,000 pounds of donated food into 5,000 meals for distribution at 80 nearby homeless shelters, transitional homes, and nonprofit organizations. We look forward to having you join us for this important night of community outreach. Watch your inbox for a link to register for the event, registration is first-come-first-served and space is limited.

We also hope to see you for our upcoming educational presentation, more details to be provided through email communications. The event will be held on November 4th 2019 from 6:30 PM to 8:30 PM at SmithGroup, 1700 New York Ave NW, and bring your questions. This event is hosted in partnership with the Architectural Engineering Institute of ASCE, who will also be available to speak on the goals and benefits that

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

### November 2

**Region 2 Assembly.** All Sections, Branches, Younger Member Forums, Student Chapters, Faculty Advisers and Practitioner Advisers are strongly encouraged to attend the 2019 [Region 2 Assembly](#) held at Drexel University.

### November 4

**AEI DC Committee Presentation.** Join us at [SmithGroup](#)'s DC Office at 6:30 PM for an educational project spotlight presentation! Check your inbox for details.

### November 4

**Reston Branch Lunch Meeting.** Corrosion Evaluation and Restoration

of Reinforced Concrete presented by Brian Pailes, Ph.D., P.E., NACE CP-4 at [ASCE Headquarters](#) from 12 PM to 1 PM.

### November 6

**YMF Happy Hour.** The Younger Members Forum is hosting seasonal networking at [Crafthouse](#) near Ballston Metro in Arlington, VA starting at 6 PM.

### November 12

**DC Central Kitchen with AEI DC and SEA-MW YMG.** Joint event with the Structural Engineers Association of Metro Washington Younger Members Group at [DC Central Kitchen](#) at 5

PM. Registration link will be emailed separately.

### November 19

**November Dinner Meeting.** Join us for the November Dinner Meeting at the [Hilton in Arlington](#). Networking begins at 6:00 PM, followed by dinner at 6:45 PM. The program will conclude by 8:30 PM.

### December 5

**Construction Committee Planning Meeting.** Join us for event planning and networking at [Così](#) near Ballston Metro (3250 Fairfax Drive) from 7 PM to 8:30 PM

## ASCE-NCS Committee and Branch News and Updates

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the membership with AEI can afford to professionals in the building industry.

To learn more about upcoming events and information please check out our [website](#) or email [aei.washingtondc@gmail.com](mailto:aei.washingtondc@gmail.com). For your dose of interdisciplinary design and engineering in your feed, don't forget to follow us on Instagram @aei\_dc!

### ASCE NCS Education Committee - Collegiate

By Jameelah M. Ingram, PE, M. ASCE

#### ASCE NCS Student Chapter Highlight: George Mason University ASCE.

The President and Vice President of George Mason University's ASCE Student Chapter (GMU ASCE), Mr. Kledi Mita and Mr. Gabriel Earle respectively, attended the ASCE NCS October Section meeting. The two students provided an impressive update of their chapter's plans for the year to NCS Board Members and Section meeting attendees.

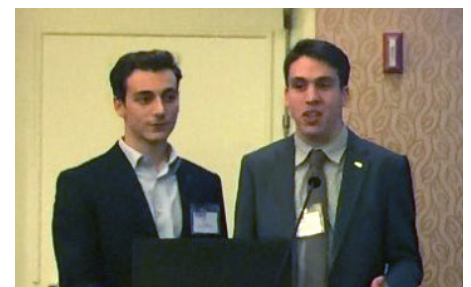
Last year, GMU ASCE had the grand responsibility of hosting both the Region 2 Conference and the ASCE Virginias' Student Conference. Both events had plenty of participation from students and professionals. This year, the chapter has more time to focus on their membership and local community. Some of the activities planned include a Resume Clinic with ASCE NCS; ASCE Civil Engineering Career Fair; and a field trip to the Arlington Memorial Bridge.

The chapter will also impact their community through partnering with organizations, such as the American Association for the Advancement of Science (AAAS). Through such partnerships, GMU ASCE plans to engage in STEM outreach with local students in kindergarten through the 7th grade. Kledi noted that he was influenced by engineering professionals as an elementary school student himself. For him, this outreach will be an opportunity to bring things full circle. GMU ASCE also hopes to partner with other clubs and think of ways to promote diversity and inclusion.

When asked how ASCE NCS could continue to support their chapter, the students welcomed more participation from ASCE NCS professionals at their school events. GMU ASCE appreciates the value of networking with ASCE NCS, which even led to an internship for Gabriel. Overall, both students were thankful to have the National Capital Section as their advocate.

### 2020 ASCE NCS Scholarship Application.

In Winter 2019, ASCE-NCS will announce a call for nominations for the 2020 ASCE-NCS Scholarship Application to Faculty Advisors and Civil Engineering Department Chairs. Students should consider reaching out to the Faculty Advisor at their college or university for the application package and eligibility requirements. Applications will be due in February 2020 and scholarships will be awarded at the ASCE NCS Annual Banquet in March 2020. ■



Kledi Mita (GMU ASCE President) and Gabriel Earle (GMU ASCE Vice President) provide a chapter update to ASCE NCS

## 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](#).*