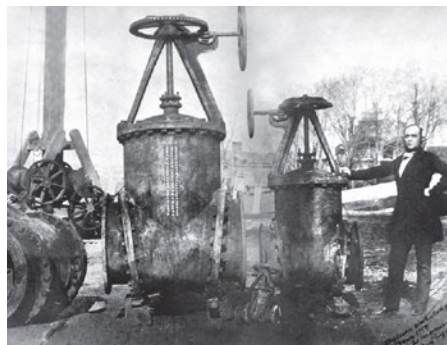


November Section Meeting: The U.S. Army Corps of Engineers, Headquarters, Engineering & Construction Division

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

The U.S. Army Corps of Engineers employs 33,000 civilian and 800 military personnel. With an annual budget exceeding \$30 billion per year, the Corps workload is set to expand over the next several years, much in response to the 2017 and 2018 hurricanes. Corps engineers primarily work in support of the agency's Civil Works mission. This includes maintaining more than 700 dams; 2,000 miles of levees; and 13,000 miles of deep draft channels. The Corps maintains nearly 1,100 harbors through which nearly half of all U.S. consumer goods and 70-percent of imported oil passes. The Corps is also the largest producer of renewable energy in the U.S., generating 25-percent of the nation's hydropower. In addition, the Corps is the lead federal provider of outdoor recreation, managing 12 million acres of public lands and waters, including 55,000 miles of shoreline and 93,000 campsites.

The November Section meeting will feature a presentation by the Corps of Engineers' Headquarters, Engineering & Construction (E&C) Division. The E&C Division is responsible for engineering and construction throughout the enterprise, including support of both



civil works and military missions. The Division has been particularly active recently with the execution of the 2017 Disaster Supplemental Appropriations, which provides an additional \$17 billion for Civil Works projects; development of the Corps Water Management System; and increasingly frequent emergency operations support. Presentations will include an overview of the Corps' mission and budget with particular focus on the Civil Works program including the recent Supplemental. Water resources capabilities will also be discussed, including the development of modeling, mapping, and management tools.

Guest speakers include E&C Civil Works Branch Chief Bob Bank, P.E.,

Please join us on **Tuesday, November 13**, 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 **November 7**.

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.

F.ASCE, and Hydrologic and Hydraulic Engineering Leads Chandra Pathak, Ph.D., P.E., D.WRE, F.ASCE and Mr. Micah Buchholz, P.E., M.ASCE.

Mr. Bob Bank has served as Chief of E&C Division's Civil Works Branch since 2009. Prior to this role, he held various management and engineering positions at Corps Headquarters and the Baltimore District. Mr. Bank holds a master's degree in civil and infrastructure engineering from George Mason University



The U.S. Army Corps of Engineers traces its origin to June 16, 1775, two days after the formation of the Continental Army. In its early days, the Corps focused on military engineering, including construction of coastal fortifications. The Corps would later expand to include works "of a civil nature" with the construction of lighthouses, jetties, piers, and canals. The Corps played vital roles in the development of the Washington, D.C. area with dozens of accomplishments, including: the Washington Aqueduct, the Potomac and Anacostia Flats, the Washington Monument, Lincoln Memorial, and the Pentagon. It was Army Chief of Engineers' Brigadier General Alexander McKenzie who, in 1905, formed the Washington Society of Civil Engineers, later to become the ASCE National Capital Section.

continued on page 2

President's Corner

Hello Members! Well it's finally beginning to feel like fall in the National Capital Section! We are in full swing with our Section events and activities and look forward to seeing you at upcoming events. Two of the big initiatives we are gearing up for are an update to our Report Card for DC's Infrastructure and the Legislative Fly-In in March.



the residents of the District, but government officials responsible for funding and policy decisions, as well. If you are interested in helping with the preparation of the next Infrastructure Report Card, please let us know!

Publishing the Report Card is just the first step in influencing policy decisions. The next step is registering as an ASCE Key Contact and attending the Legislative Fly-In in March 2019. For those who don't know, the Key Contact Program is a national program where members sign up to receive updates about public policy developments and agree to take action on those developments. Our proximity to the Nation's Capital makes our members perfect candidates to be Key Contacts and I encourage you to sign up today.

The Legislative Fly-In in March is an opportunity for Key Contacts and other members to meet with their representatives on the hill and educate them and influence their decisions on Infrastructure and other ASCE initiatives. The best part about being in the National Capital Section is no actual flying is required for us. Many of us are a short drive, or maybe even a short walk, from Capitol Hill. If this event interests you, I encourage you to register to participate. Applications must be completed by November 19, 2018.

On behalf of the entire Board, I wish you a Happy Thanksgiving!

Emily Dean
ASCE-NCS President

The Infrastructure Report Card is a comprehensive review of the District's infrastructure including bridges, roads, drinking water, and waste water. Gathering and analyzing the data to prepare the Report Card takes several months and while it is quite a lot of work, the published results have proven to be very valuable. Our hope is that the results will educate not only

November Section Meeting

continued from page 1

and bachelor's degree in civil engineering from University of Delaware.

Dr. Chandra Pathak has served as Senior Hydrologic and Hydraulic Engineer for the Corps since 2011. Prior to the Corps, he served as Principal Engineer for the South Florida Water Management District. He also held various engineering and management positions with local consultancies, including CC Johnson & Malhotra,



Sheladia Associates, and Michael Baker International. Dr. Pathak, also, currently serves as an Adjunct Professor for George Mason University and has been an Associate Editor for ASCE's Journal of Hydrologic Engineering since 2006. Dr. Pathak received his doctoral and master's degrees in Water Resources Engineering from Oklahoma State University and the Asian Institute of Technology, respectively.

Mr. Micah Buchholz, P.E., M.ASCE has served as Hydrologic and Hydraulic Engineer for the Corps since 2012. In his

current role, he serves as E&C's advisor to the Headquarters Emergency Operations Center, oversees competency initiatives, and coordinates policy development. Prior to the Corps, Mr. Buchholz served as a water resources engineer and project manager for Pinellas County (Florida) and King Engineering Associates. Mr. Buchholz received his bachelor's degree in Environmental Engineering from the University of Central Florida. ■



Newsletter

Sumon Chatterjee, Editor

January 2019 Issue Deadline: December 21, 2018

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](http://www.asce-ncs.org) for a current list of NCS committees and chairs.

Highlights from ASCE 2018 Convention

By Ranjit S. Sahai, PE, F.ASCE

This article highlights three topics from the ASCE 2018 Convention in Colorado: Innovations in surface transportation, Nevada DOT's \$1B design-build Project Neon, and the Industry Leader's Forum. The article concludes with a topic civil engineers should be more familiar with.

Innovations in Surface Transportation

The opening keynote was awe inspiring. It featured Colorado DOT's historical narrative of surface transportation across 6,500 years: carriage on wheels powered by muscle, then engine, to now, the emergence of capsules, levitating on a magnetic field, traveling in vacuum tubes, at supersonic speeds with no rolling friction or air drag.

Hyperloop Technologies highlighted its innovative global business model and the historical progress made in recent years to make this technology a commercially viable reality.

ASCE President focused on the Future Vision project that models the future 50-years hence with the goal of envisioning the roles civil engineers will play and the skills they will need that align with what the future will be.

Project Neon

Nevada DOT focused on best practices it discovered over the course of its massive \$1B highway design-build project (Project Neon). Areas of focus were: Incentives; ROW acquisition strategies;



The Hyperloop Capsule

Change management discipline; Co-Location value proposition; Public Outreach with virtual walk-throughs; and Utilities coordination. The presentation featured a wealth of relevant information for those undertaking massive highway projects.

Industry Leader's Forum

This Day 2 session was eye opening. It featured the editor of ASCE Manual of Practice (MOP) 140, an infrastructure advisor to political office, a USACE executive, and an NYC Port Authority executive. The theme of their conversation, streamed live by ASCE on Facebook, was adaptive design and risk management for climate-resilient infrastructure. It talked about future changes required in: Infrastructure insurability; Incorporation of uncertainty concepts in design standards; Checklists used for planning; Cybersecurity; and

Conversations civil engineers must initiate with infrastructure owners.

Standard of Care

Did you know that, as a civil engineer, you are legally required to practice under the principle of "Standard of Care?" The principle is the line between negligence and non-negligence in cases of error. You become guilty of the error in the

former case but innocent of the error in the latter case. I was a member of the 3-panel session on ethics which focused on its philosophic foundation; on the standard of care; and on ethical situations we all likely face.

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**

Review (continued) of “Rethinking America’s Highways”

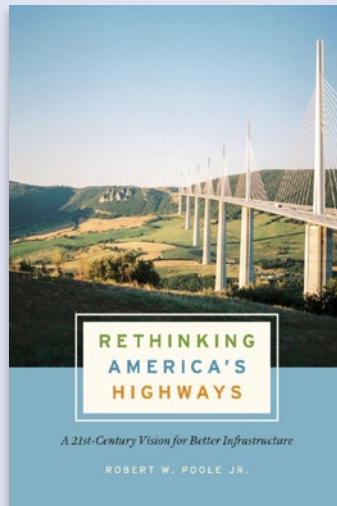
By Ranjit S. Sahai, PE, F.ASCE

This article is a continuation of the book review from last month. That article shared information about the book’s author, his background in policy research, and his key thesis that a revival of the privately funded toll infrastructure, that was used before the Great Depression in the 1930s, is key to bridging the gap between highway infrastructure funding allocation and needs. The author makes an evidence-based and compelling argument in support of his thesis in the first seven chapters. This article concludes by indicating Robert Poole’s vision of what’s next as covered in the book’s last five chapters.

The vision centers on operating highways as utilities, such as the telecom industry. The author attributes the origin of this idea to the 1967 book *Paying for Roads* by Gabriel Roth, and several other works. By moving to this model, customers receive transportation bills, like utility bills, for “delay-free travel” delivered through “variable pricing and active management of traffic flows.” There

is explanation about how highway utilities would work.

The realization of this vision would be gradual, the author contends, starting first by the transformation of interstate highways. He goes on to explain why this would be the case and then turns



A 21st century vision for better infrastructure

to the how, such as, reconstruction, selective widening, truck-only lanes, electronic tolling, service plazas.

The next steps would transform urban freeways from congestion magnets to a smaller-scale multimodal grid of urban parkways. The author includes several examples from domestic and foreign regions and develops ideas for urban road pricing.

The author goes on to consider the challenges to the vision of highways as utilities. He considers and debunks challenges such as travel and housing preferences of millennials, autonomous vehicles replacing ownership, sharing economy, climate change concerns reducing need for highways, and reduced emphasis on cars and driving in densely populated urban areas.

Interested in learning how we got to the current state of our highway infrastructure, and how it can get better? I found the vision offered in this book to be compelling, well-researched and resourceful.

Ring Ceremony

A Ring Ceremony will be held on February 19, 2019, during Engineers Week, preceding our monthly meeting.

This is your opportunity, if you are not yet a member of the Order of the Engineer, to become one and will enable you to proudly wear an Engineer’s

ring. Now is the time to register. By completing the 2 page form at <https://www.asce.org/order-of-the-engineer/> ASCE will verify that you are qualified and you will be asked to pay a one-time fee of about \$20.00. Notes: write on the Form that the Ceremony Organizer is the National Capital Section of the

American Society of Civil Engineers and the date will be February 19, 2019, in Arlington, Virginia.

Please contact philliplmelville@juno.com to submit your forms. ■

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Conference Tracks

ICTD 2019 will explore the future of transportation and development, including information and communication technology, sensors, big data and analytics, new energy, financial and legal issues, codes and standards, and more, organized into eight conference tracks:

- Connected & Autonomous Vehicles
- Transportation Safety
- Rail & Public Transit



- Traffic Operations
- Planning & Development
- Challenges & Opportunities of Emerging Technologies
- Infrastructure Systems
- Aviation Operations

Plenary Sessions and Special Events

Four plenary sessions – Smart Cities, Smart Energy, Smart Mobility, and Smart Data – will present an overview of critical issues. The conference also features breakout sessions, pre-conference workshops, an awards banquet, younger member session, poster

session, an icebreaker reception, and technical tours.

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Staff Contact: Sean Scully, ASCE Senior Manager for Sponsorship & Exhibit Sales; sscully@asce.org; 703-295-6154

Visit the website to learn more at www.asce-ictd.org. ■

Employment Clearinghouse

Booz Allen Hamilton has multiple positions open for the following:

Sr. Environmental Engineer, PE, 8+ years experience with drinking water infrastructure and quality, sampling procedures, treatment, design and operations, and compliance; and Jr. Environmental Engineer, EIT, 2+ years experience with auditing, report development, water quality, sampling procedures, treatment and

distribution, and compliance. Please email Mabutas_mike@ne.bah.com for additional information. We are an EOE that empowers our people – no matter their race, color, religion, sex, gender identity, sexual orientation, national origin, disability, or veteran status – to fearlessly drive change.

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](#).

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ASCE NCS October Meeting Recap

The Purple Line Light Rail Transit Project: Progress through Public-Private Partnership

By Jameelah M. Ingram, PE, M. ASCE

In October, the Maryland Transit Administration (MTA) Office of Transit Development and Delivery (TDD) and its program management consultants presented to the ASCE National Capital Section about the Purple Line Light Rail Transit Project and its progress through Public-Private Partnership. Presenters included: Jeffrey D. Ensor, TDD Chief of Staff and Director of Project Delivery & Finance at MTA TDD; Jameelah M. Ingram, PE, M.ASCE, Purple Line Project Engineer at WSP USA; and Edward J. Elder, PE, Purple Line Project Engineer at AECOM. Topics included: a project overview; real estate acquisitions; the Public-Private Partnership (P3) Agreement; and construction activities.

Jameelah opened the presentation by defining the Purple Line Light Rail Transit Project. As the Owner, the Maryland Transit Administration is at the intersection of this dynamic project and regularly interfaces with the Concessionaire's design and construction teams, multiple agencies, property owners, and the public. The Purple Line is a new 16.2 mile east-west light rail transit line from Bethesda, MD to New Carrollton, MD. It will operate primarily on the surface with 21 stations. There is one short tunnel east of Manchester Road and three aerial sections near Connecticut Avenue, Silver Spring Metro and Riverdale Park/Kenilworth Avenue. Jameelah discussed the purpose of the project to fulfill a need for fast and reliable east-west transit service in the corridor. The project will promote multi-modal transportation options, as it connects the travelling public to WMATA Metrorail, MARC, Amtrak, and local bus services. The project also includes the completion of the Capital Crescent Trail between Bethesda and Silver Spring, the Green Trail along Wayne Avenue to Sligo Creek Parkway, and a hiker biker path at the University of Maryland Campus. Sidewalks will also be installed at various places along the alignment. Facts



and figures about the Purple Line's schedule, service, travel time, and fare were presented.

Next, Ed provided an overview of the real estate acquisitions necessary for the project. The developed corridor includes a mix of residential and commercial areas, as well as a former railroad corridor. He referenced the role of the U.S. Constitution in acquiring property for public use. The volume of partial or full acquisitions required to build the transit line was discussed, along with the composition of the acquisitions. This includes gas stations, apartment units, office properties, strip retail centers, single-family dwellings, and others. Ed discussed the challenges of acquiring property for the Purple Line, such as acquiring property at a 30 percent stage of design. The breadth of experience required to successfully acquire property for the Purple Line was described through a team organizational chart. The robust team consists of multiple professionals including attorneys, appraisers, negotiators, and engineers. Ed also offered fascinating anecdotes to further illustrate the nature of real estate acquisitions for this project.

During the last segment of the presentation, Jeff discussed the Public-Private Partnership Agreement in-depth and the project's approach to risk. The project is structured as a Design-Build-Finance-Operate-Maintain (DBFOM) Public-Private Partnership (P3) Concession with Availability Payments (APs). An organizational chart with the contracting structure detailed the entities involved. Design and

Construction will occur over a period of 6 years and Operation and Maintenance (O&M) and Capital Renewal over a period of 30 years. Jeff also provided some context for the project and its challenges, such as the density of the corridor. The extensive coordination required for a project of this magnitude, which includes third parties, stakeholders, and communities, was also noted as a significant responsibility.

Finally, Jeff described construction activities and challenges on the project, such as constricted work areas, regional traffic, utility relocations, and adjacent development. Photos were displayed to illustrate recent construction work, such as drilled shaft concrete and rebar placement in Riverdale Park and removal of stone veneer at structures for Baltimore-Washington Parkway. Details about the construction of Plymouth Tunnel, which commenced in June 2018, was also shared. Construction is scheduled for completion by the year 2022. ■

Future of FE and PE Exams: CBTs, AITs or Simply Alternative Item Type Questions

This month we would like to start answering some of our readers' questions regarding the PE exams.

All Civil Engineering PE exams (Construction, Geotechnical, Structural, Transportation and Water Resources and Environmental) are currently offered in pencil-and-paper format and available once or twice per year depending on the exam. Computer Based Tests (CBTs) for all civil engineering disciplines is scheduled to start in 2023 and they will be offered year-round. A brief background about the CBTs:

In 2010, NCEES (National Council of Examiners for Engineering and Surveying) started moving toward Computer-Based Tests (CBT's). The process of first converting the FE and FS exams from paper-and-pencil to computerized exams changed the whole system of exam delivery.

This method of administering exams allowed candidates to have more flexibility in scheduling exams and provided a more uniform testing environment for all candidates while allowing NCEES to better protect exam content from theft, copying, and collusion. There are two types of CBT exams, year-round and single day exams.

Some CBT exams are administered *year-round*. NCEES constructs these exams using a linear-on-the-fly (LOFT) algorithm. This means that all examinees for a particular exam are required to answer the same number of questions in the same topics; however, no examinees will have the same set of questions.

The second type, single-day, CBT exams have a smaller examinee population using a different high-stakes testing model and are administered on a *single day* each year. All examinees taking these exams receive the same questions.

The question formats used on both types of exams are the same, independent of the statistical model employed.

After this brief introduction for CBT's, now let's talk about AITs.

Computer Based Exams include traditional multiple-choice questions as well as alternative item types (AITs). AITs provide opportunities to assess the technical knowledge of examinees using methods not available through paper-based testing.

As of July 1, 2017, the examinees taking a computer based NCEES exams have been receiving up to five types of questions on their exams.

Traditional **Multiple-Choice** (MC) questions that feature four answer options from which to choose. One of which is the correct answer.

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 or simply it requires examinees to select multiple answers.

Point and Click (P&C) questions require the examinee to select one or more pre-determined clickable areas that become visible when the examinee move his/her cursor over the graphic. To give an example for a P&C type question, you will be given the figures of a simply supported beam and its cross section (for example a rectangle). Assume the beam is under vertical transverse loads and the question asks you to mark (click) on the cross section where the maximum normal stress takes place. As you may've guessed, the correct answer would be at the top fiber (top portion) of the cross section. Another typical P&C type of question would a cantilever beam under downward transverse loads. In this case the entire top fibers of the beam will be under tension and

bottom fibers will be under compression. Depending on the question, it is easy to mark the correct location on the figure to get the correct answer. Sometimes you will be given a graph, or a chart and you may be asked to mark a particular area depending on the question.

Drag and Drop (D&D) questions require the examinee to click and drag his/her answer options to sort, rank, match, or label a provided graphic. For example, you will be given the figures of four beams such as a simply supported beam, an overhanging beam, an indeterminate beam and a multi-span beam. Next to the four figures you may see the list of four beam types. In this type of question, you will be required to *match* each of the beams with its correct description.

Fill in the Blank (FB) questions require the examinee to enter her/his response instead of choosing it from a list of answer options. Such questions can reduce or remove the potential for candidates to guess the correct response

But in any case, don't let these new AIT type questions scare you. As a rule, practice as many problems as you can. And never forget, during the FE and PE exams, the more time you spend on a difficult question, the more time you risk second guessing yourself. Always trust your intuition. You have worked hard, don't doubt yourself. Come back to that difficult question when you might have a clearer mind.

Until next time,
Ahmet Zeytinci (Dr.Z.)
az@akfen.com



ASCE-NCS Committee and Branch News and Updates

ASCE-NCS Reston Branch

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

On October 22nd, Adeola Adediran, PhD, PE, SE Technical Specialist, and Bechtel Distinguished Engineer presented “Overcoming Technical Challenges in Excavation: The Salt Waste Processing Facility Design Integration,” a look into the project life-cycle of the excavation shoring process used for the project.

The next meeting of the Reston Branch will be held on November 8th at the ASCE Headquarters in Reston, VA, with sign-in starting at 11:30am. Michael Fontaine, PhD, PE, Associate Director at the Virginia Transportation Research Council, will discuss “Overview of the Virginia Department of Transportation Safety, Operations, and Intelligent Transportation Systems Research Program.” Please see the Reston Branch webpage for more information. One PDH will be awarded to attendees.

Upcoming Events:

- **November 8th** – Reston Branch Meeting – Michael Fontaine, PhD, PE, Associate Director at the Virginia Transportation Research Council
- **Date TBD** – Winter Social

Structural Committee

By Gillian Love, PE

Call for Members

The ASCE National Capital Section is currently looking for individuals interested in the newly developed Structural Committee. The Structural Committee is intended to offer those with an interest in structural engineering the opportunity to network with other professionals, to sharpen their technical and professional skills and to grow professionally. Those interested in becoming a participant should visit the Structural Committee page on the ASCE-NCS website (<http://www.asce-ncs.org/index.php/committees/structural>) and provide their contact information in the link at the bottom of the page. Additional details for the first Structural Committee meeting of 2019 will be sent out to all interested parties in the coming months.

ASCE NCS Education Committee – Collegiate

By: Jameelah M. Ingram, PE, M. ASCE
Region 2 Assembly

Region 2 represents ASCE members from Washington, DC, and parts of Northern Virginia, Maryland, Delaware, and Pennsylvania. This year, ASCE Members will convene for the annual assembly at George Mason University in Fairfax, Virginia, on Saturday, November 17, 2018. The focus of this year’s assembly is Leadership and Professional Development. There will be plenty of presentations and activities that foster interaction between ASCE Student Chapters, professors, practitioners, and employers.

Please contact Andres Izquierdo at aizquier@gmu.edu and copy Khaled Alamdeen at kalamdeen@alaengr.com for more information on how to register.

College to Career Workshop and Resume Clinic Recap

Pumpkins and changing leaves remind us that fall has arrived. Fall also ushers in a time that engineering companies conduct talent searches for next year’s slate of summer interns. In preparation for securing a new job opportunity, collegiate members of ASCE NCS attended a College to Career Workshop and Resume Clinic. The event was hosted by the ASCE NCS Education Committee, in conjunction with the George Mason University Student Chapter (GMU ASCE) on October 25, 2018. GMU ASCE Chapter Leaders, including Sarah Shay (President), Andres Izquierdo (Vice President), John Humpton (Secretary), and Samuel Demeke (Treasurer), assisted greatly in making this event a success.

The evening began with a presentation by Keith Foxx, PE, PMP, CCM, Manager of Transportation at RK&K and Jameelah Ingram, PE, M.ASCE, Lead Structural Engineer at WSP USA. They presented key tips for networking, writing resumes, and interviewing, with the end goal of landing a dream engineering position. The workshop was interactive, and students were highly engaged with detailed questions. Open discussions with students included LinkedIn protocols, body language at interviews, and even what *not* to wear to an interview.



A Resume Clinic followed the presentation, where ASCE NCS Professionals conducted individual resume review appointments with each student. The following professionals graciously volunteered their time after spending an entire day at the office:

- **Yahya Ahmed**, Structural Engineer I at WSP USA
- **Shainur Ahsan**, Civil/Structural Discipline, Bechtel Nuclear, Security, and Environmental
- **Norelis M. Florentino**, P.E., PMP, M.ASCE, Senior Manager at Shrewsberry
- **Connell Smith**, EIT, Civil Engineer at WSP USA
- **Michael D. Venezia**, P.E., M.ASCE, Senior Geotechnical Engineer at ECS Mid-Atlantic, LLC
- **Norine M. Walker**, P.E., F.ASCE Project Manager at VRE
- **Elizabeth Wheeler**, Project Engineer at Mosaic Engineering and Consulting

At the individual appointments, students came equipped with thoughtful questions, and professionals responded with sound advice. Topics included: what type of experience should be included/excluded from the resume; how to highlight positive skills from non-engineering experiences; listing of software packages; piquing reviewer interest in cover letters; and adding relevant codes and agency standards to the resume. The advice imparted was specific indeed, including best font types and how to quantify information about work experiences on a resume. Students were also advised to demonstrate skills and talents by

continued on page 9

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

November 7

YMF Happy Hour, 6–8 pm, Crafthouse in Arlington. Celebrate our monthly happy hour and network with members. Look for an email announcement for the December holiday happy hour.

November 13

NCS Section Meeting, 6:30-8:30 pm, Hilton Arlington. A representative of the U.S. Army Corps of Engineers, Headquarters, Engineering & Construction Division will present. Look for additional information in a future month's newsletter.

November 17

Region 2 Assembly, George Mason University, Fairfax, VA. The focus of this year's assembly is Leadership and Professional Development. There will be plenty of presentations and activities that foster interaction between ASCE Student Chapters, professors, practitioners, and employers. Please contact Andres Izquierdo at aizquier@

gmu.edu and copy Khaled Alamdeen at kalamdeen@alaengr.com for more information on how to register.

November 4

Emerging Leaders Alliance Conference, Falls Church, VA. The Emerging Leaders Alliance is a partnership among leading engineering organizations that promotes interdisciplinary leadership training for select professionals.

January 25 to 26, 2019

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.

June 9 to 12, 2019

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.

ASCE-NCS Committee and Branch News and Updates

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including examples of actions and its results. The students left with homework, which included a resume checklist for assessing their resume beyond the workshop.



Younger Members Forum

By Maria Raggousis, EIT, YMF Secretary

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 seasonal food and drink under the stars with an Oktoberfest happy hour at Sauf Haus Bier Hall in Washington, DC! Approximately 15 members attended the event and shared great conversation over traditional oversized pretzels.



Join us for our next happy hour at Crafthouse in Arlington, VA on Wednesday, November 7th, starting at 6 PM with free appetizers and drink specials. Can't make next month's happy hour? Be sure to look out for emails for the upcoming December happy hour, holiday party, and Toys-4-Tots Drive!

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 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? 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 at ncsymfpresident@gmail.com. ■