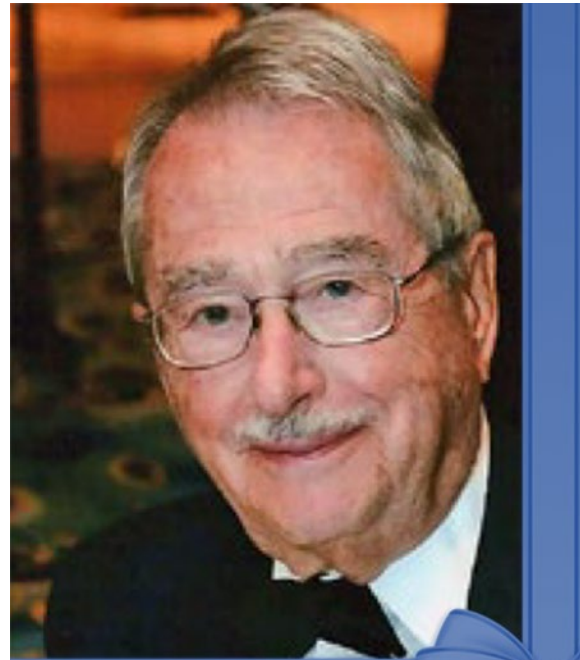


Happy Centennial Birthday to Engineer Phillip!

This June, the ASCE National Capital Section would like to wish a very Happy 100th Birthday to Mr. Phillip L. Melville, Ph.D., P.E., F. ASCE! Engineer Phillip serves as Chair of the Life Members Forum for ASCE NCS. He has dedicated years of time and service to the Section. Most recently, he started an initiative for ASCE NCS to host an Order of the Engineer Ceremony. Thanks to his idea, the event was held in February 2019 and February 2020. In the May 2021 ASCE NCS Newsletter, Engineer Phillip also penned a letter from the Forum of ASCE NCS Life Members regarding an opportunity to give back. The letter was a call to NCS membership to assist residents of Sierra Leone in designing a small bridge, by way of volunteering with the Engineers Without Borders (EWB) Washington DC Professional Chapter. Due to Mr. Melville's continuous efforts to connect ASCE NCS with EWB-DC, leaders of EWB-DC even gave a presentation at the February 2022 Section Meeting. At the meeting, EWB-DC presented about international and local projects that ASCE NCS Members can lend their technical assistance to. Thank you to Engineer Phillip for contributing invaluable knowledge to ASCE NCS and for staying so involved! Please have a wonderful birthday!

To learn more about Engineer Phillip, please see the [October 2017 ASCE Newsletter](#) for a fascinating article! ■



Happy Centennial Birthday!

Mr. Phillip L. Melville

Ph.D., P.E., F. ASCE, Chair of the Life Members Forum

From the ASCE National Capital Section

Upcoming ASCE NCS Open Board Positions and Elections!

Please look out for an email in the coming weeks with a call for nominations for open ASCE NCS 2022–2023 Board Positions! An official election of these candidates will follow. In addition to



the open Board positions, there will be other opportunities to take on leadership roles and become more active with NCS. These leadership roles are not elected positions and are great opportunities to take a stake in ASCE's local presence and activities. This includes

Newsletter Editor-In-Training; Treasurer-In-Training; and various Committee roles. NCS is always looking for volunteers to champion section meetings; participate in STEM events; plan a social event; and host a tour, etc. More information to follow. ■

President's Corner

Greetings to you!

The summer is upon us and beckons for adventure. Whether you decide to travel in person or in your imagination by way of a great summer read, I urge you to learn about a new place. In recognition of Father's Day in June, I'm compelled to share that my father loved to explore. He always encouraged me to see the world, something he experienced through service in the United States Navy and by taking a Holy Pilgrimage to Mecca, Saudi Arabia. Because of him, I keep a globe nearby as a reminder. A career in civil engineering certainly affords you this



opportunity, as our profession is needed all over the world and across the United States.

There are so many local places to explore. So, perhaps you can take in the sights and sounds of a nearby wonder. In this newsletter, you will find that the ASCE Virginia Section and ASCE NCS History and Heritage Committee did just that. Read on to learn more about the rededication of the Crozet Blue Ridge Tunnel, an ASCE National Historic Civil Engineering Landmark in Waynesboro, Virginia. Members of the ASCE NCS Younger Member Forum (YMF) also traveled

to Hartford, Connecticut to represent the ASCE National Capital Section at the Eastern Region Younger Member Conference (ERYMC) from June 10th through the 12th.

In closing, Happy Father's Day to all the fathers and father figures this June. I will celebrate my Grandfather – a Pastor and retired Professor of Spanish; my Uncle who showed us the best fireworks in the great state of Texas as children; my Cousin – a fantastic fine artist; my Husband, who serves as a wonderful role model to our nieces and nephew; and the memory of my own Father. I can attribute the joy I find in math, my affinity for travel, and my aspiration to look on the bright side of things to him.



The ASCE NCS Newsletter will return in September 2022. Until then, please keep an eye out for the Annual Planning Meeting this summer. At this meeting, you will have a chance to weigh in on Section events for the upcoming year. There will be several opportunities to join a committee as well. In the meantime, let's continue to connect through committee events and online!

Sincerely,

Jameelah C. Muhammad Ingram,
P.E., M. ASCE
ASCE NCS President



Newsletter

Maria Raggousis, Editor

September 2022 Issue Deadline: August 12, 2022

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.

National Capital Section

Officers (2021–2022)

Jameelah Muhammad Ingram, President

Elizabeth Wheeler, Vice President

Joseph Whartenby Jr., Treasurer

Norine Walker, Secretary

Kelly Cronin, Past President

Emily Dean, Previous Past President

Maria Raggousis, Newsletter Editor

Ariana White, YMF President

Lisa Anderson, Director

Tricia Wolfbauer, Director

Stephen P. Barna, Director

Shainur Ahsan, Director

Christopher Friend, Reston Branch President

Committee Chairs

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

Your Documents as Library: The Search

The fourth in a series of four articles for managing your Documents folder as a library by Ranjit Sahai, PE, F.ASCE

This series-concluding article leaves you with a curated collection of PowerShell statements for a variety of document search scenarios. When the need to locate a specific electronic document is urgent, there is no better way than to unleash computer-power to hunt it down in a hurry.

The three-column layout of this article doesn't lend itself well to display code unambiguously. Refer to Fig. 1 for the code as typed on a computer screen.

Load repository first

Be sure to first load your search repository, i.e., the local or network folder you wish to search, into a PowerShell variable. We used the variable `$dal` for this purpose in each of the prior articles. The search statements navigate this repository to locate the desired document. See line 1 in Fig. 1.

You will want to update the value assigned to the `- Path` parameter to reflect the folder you wish to search, such as:

`C:\Data`

Or:

`\\Server1\NetworkSharedFolder`

Match characters in FullName

The search criteria on line 2 in Fig. 1:

`$_FullName - match "pdh"`

locates any file that has the letters `pdh` in its filename or in its folder name. Substitute `pdh` with the sequence of characters you need the search to match.

Match characters in Directory

The search criteria on line 3 of Fig. 1:

`$_Directory - match "asce"`

locates any file that has the letters `asce` in its filename or in its folder name.

Match characters in Directory and Name

The `- and` operator on line 4 of Fig. 1, and its companion `- or` operator allow you to combine two search criteria.

The first operator requires both search criteria be met for located files. The

second operator locates files that match either search criteria.

Like and match special characters

The `- match` operator in all prior search criteria use Regular Expression Language patterns for expressing even the most complex character pattern matching requirements. For instance on line 5 of Fig. 1:

`-match "\d{4}.\d{2}.\d{2}"`

will locate files that have a character-separated or unseparated date format `YYYY.mm.dd`, or `YYYY-mm-dd`, or `YYYY_mm_dd`, or `YYYYmdd` in their name.

The `- like` operator on line 6 of Fig. 1 is easier to remember how to use than the `match` operator because the former supports only two wildcards `*` and `?`, which you may already be familiar with if you've ever typed `dir *.*` at the command prompt. The search criteria `- like "*.??x"` will locate any file with "x" being the fourth character in its extension.

continued on page 4

```
1 $dal = Get-ChildItem -Path "$env:OneDriveCommercial" -File -Recurse
2 $dal | Where-Object{$_FullName -match "pdh"} | Select-Object -Property FullName
3 $dal | Where-Object{$_Directory -match "asce"} | Select-Object -Property FullName
4 $dal | Where-Object{$_Directory -match "nsc" -and $_Name -match "Calumet"} | Select-Object -Property FullName
5 $dal | Where-Object{$_Name -match "\d(4).\d(2).\d(2)"} | Select-Object -Property FullName
6 $dal | Where-Object{$_Name -like "*.??x"} | Select-Object -Property FullName
7 $dal | Where-Object{$_Extension -match "pdf"} | Select-Object -Property FullName
8 $dal | Where-Object{$_Length -gt 3mb} | Select-Object -Property Length,FullName
9 $dal | Where-Object{$_LastWriteTime -gt "2018/1/1" -and $_LastWriteTime -lt "2018/12/31"} | Select-Object -Property Name,LastWriteTime,length
```

Fig. 1: To preserve the formatting and legibility of search statements discussed, they are presented as a screenshot in this figure.

ASCE-NCS Newsletter Patrons



Match character and extension

The search criteria on line 7 of Fig. 1 uses the Extension property to constrain search to include only PDF files.

Larger or smaller in size

The search criteria on line 8 of Fig. 1 uses a file's Length property to locate files larger in size than 3 MB. Use can use the -lt operator instead to locate files smaller than a specific size, say 5 KB as in:

```
$_.Length -lt 5kb
```

File's modified date stamp

The search criteria on line 9 of Fig. 1 uses a file's LastWriteTime property

(which is displayed as "Date modified" in File Explorer) to locate files that were last modified in 2018.

Going beyond interactive search

Though we've run search statements thus far by typing them interactively, it's a lot more fun to eliminate the tedium of typing and spelling errors by saving these statements as script files. You can then invoke the needed search statement by typing the name of the relevant script file.

A PowerShell script is a text file with the .ps1 extension. Each PowerShell statement contained in the file is run sequentially.

Wouldn't it be even more useful if the script prompted a user for the folder path to search and the Regular Expression to use? Yes, and PowerShell supports that capability when writing custom functions.

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.



Congratulations to Ahmad Habibian, Ph.D., P.E., F.ASCE, Recipient of the ASCE 2022 Stephen D. Bechtel Pipeline Engineering Award!

Ahmad Habibian, Ph.D., P.E., F.ASCE, is the recipient of the ASCE 2022 Stephen D. Bechtel Pipeline Engineering Award. This award recognizes his 40 years of distinguished service to the pipeline engineering community, and his significant contributions to the advancement of pipeline condition assessment approaches, rehabilitation solutions, and application of trenchless technologies for water and wastewater pipeline conveyance systems. Dr. Habibian is a vice president and the



global practice leader for water conveyance at CDM Smith. Dr. Habibian was the honored recipient of the 2008 ASCE Pipeline Division Award of Excellence and the 2015 AWWA Peak Performance Award. He currently serves as the Editor-In-Chief of the ASCE Journal of Pipeline Systems Engineering & Practice. He also has served in several leadership positions with ASCE and AWWA, including chair of ASCE's Pipeline Division Executive Committee (EXCOM), founding chair of the ASCE's Technical Committee for Trenchless Installation of Pipelines (TIPS), founding chair of ASCE's Underground Pipelines

Asset Management Committee (UPAM), and Trustee of AWWA Distribution and Plant Operations & Maintenance Division. He has published and presented more than 200 papers at ASCE, AWWA, WEF, NASTT and other professional organizations, publications, and conferences. Dr. Habibian attended Cambridge University where he received his Ph.D. and M.Phil. degrees in soil mechanics. He received his Master of Science in water resources and his Bachelor of Science in civil engineering at Shiraz University. ■

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Virginia Centennial Celebration – Serving the Commonwealth Since 1922

We are having a great Centennial Celebration in Virginia. As you read this Newsletter, you will see highlights from our Gala Celebration and our Boat Tour of our Landmarks in the Norfolk Area. Many thanks to all those Centennial Committee members that worked so hard to make these events such spectacular Celebrations of Civil Engineering.

As we continue through our Centennial Year, we need to also recognize other accomplishments achieved to date and what we have planned. By meeting monthly, the Centennial Committee over the last three years has been working hard to honor the pioneers of civil engineering that have worked tirelessly over the last hundred years supporting Virginia. This resulted in a Centennial Pamphlet (<http://ascevirginia.org/centennial-pamphlet/>) that provides historic photos and short descriptions of the ASCE Landmarks across the Commonwealth. Using QR codes, readers can be directed to the ASCE National Landmark descriptions, to our Centennial webpage, and to our interactive map. Our Centennial web page (<http://ascevirginia.org/centennial-celebration/>) contains Centennial Engineers of the Month, historical documents, and a link to our Interactive Map (<http://ascevirginia.org/va-landmarks-interactive-map/>).

Our Celebration includes all of Virginia, since over the last hundred years the Section covered areas now included in the National Capital Section, we made these Counties a part of our Centennial. This decision has been a great benefit to both Sections, since not only does our Committee include volunteers from the National Capital Section that have participated and supported our events, but we have developed STEM (Science, Technology, Engineering, and Math) Tools that will be used across all of Virginia. Which leads us back to the Pamphlet and Interactive Map.

The Committee first developed the Centennial Pamphlet to be used primarily to promote our Centennial events with a secondary use as a handout at schools and career fairs. However, we are now working to make the Pamphlet a true STEM Tool by adding an overview of civil engineering, having several

younger member profiles that show how they became engineers and what they do as engineers, and keeping the Interactive Map updated with civil engineering projects across Virginia. This Interactive Map, showing ASCE Landmarks and other significant civil engineering projects, can be used by teachers and parents to show future engineers our accomplishments and what we do as civil engineers. These STEM Tools will remain in use after the Centennial Year and will be available to all in Virginia.

Since one of our first actions was to select the Fink Deck Truss Bridge (shown below), an ASCE Landmark, in Lynchburg, Virginia, as our Logo, we will be doing a clean-up and repair of the Bridge and Plaque. This effort will be carried across all of Virginia to ensure we have excellent examples of historic civil engineering available in nearby locations for all students.



We have also installed a new plaque in coordination with Nelson County Parks and Recreation at the Crozet Tunnel. This new plaque, which was recently unveiled and, as shown in the photographs below, the plaque is mounted on a pedestal that symbolizes the tunnel.

Other activities underway include setting up Geocaching to encourage students to visit our Landmarks, making



the webpage a continuous History and Heritage depository for honoring our outstanding engineers and collecting important documents for future generations, and holding a joint field trip with the National Capital and Maryland Sections.

So, in closing, we want to thank the dedication of the Committee Members, Supporters, the Virginia Section Board, and supporters from the National Capital Section, who have worked tirelessly to make this an excellent Centennial Celebration. Also want to thank the ASCE Foundation who's grant help pay for the Pamphlet and the ASCE President, other Officers, and the National Staff for their continued support. As a result, we had the opportunity to not only recognize those civil engineers at our Gala, Centennial tours, and Dedications that have gone before us but to also inspire the next generation of civil engineers through our Centennial Pamphlet, Interactive Map, and Webpage. ■

What Engineers Do? Ten Reasons to Love Engineering

What do engineers really do? How do they spend their days? If you think they mostly sit at a desk doing math, you are wrong. According to DiscoverE (E-in STEM), engineers not only design, invent, fix, improve, research, travel, present, inspect, draw, write, calculate, but also they work with really interesting people on great projects. Engineers are changing the world for the better all the time. They dream up creative, practical solutions and work with other smart, inspiring people to invent, design, and create things that change our planet. As promised, in this issue of Dr. Z's Corner we will talk about "Ten Reasons to Love Engineering."

1: Love your work, and love your life

Engineering is an exciting profession, but one of its greatest advantages is that it will leave you time for all the other things in your life that you love. According to author and creativity guru, [Chris Barez-Brown](#), life and work are intrinsically linked. They are not separate, they are one. If we want to live an extraordinary life, we have to make our work equally extraordinary. It is possible to help you make your work, work for you. Apparently Brown's approach has produced some tangible returns on investment for many Fortune 500 companies such as Nike, Coca Cola, Diageo, The Gates Foundation, Sony and WPP Unilever, and ITV, for his unique and energetic approach to transforming their people and their work.

2: Be creative

Engineering is a great outlet for the imagination – the perfect field for independent thinkers. Can Creativity Be Taught? What about the creative process? Certainly an [understanding](#) of the basic rules of thumb can be taught. Everyone can learn to some degree

how to construct ideas and things that work by imitating, emulating and modeling the behaviors of effective teachers. A word of caution: According to experts on creativity, extensive technical thinking diminishes creativity. Most engineers would need to be a practitioner to understand the creativity process.

3: Work with great people

Engineering takes teamwork, and you'll collaborate with all kinds of people inside and outside the field. Whether they're designers or architects, doctors or entrepreneurs, you'll be surrounded by smart, inspiring people.

4: Solve problems, design things that matter

Come up with solutions no one else has thought of. Make your mark on the world. A lot of people end up [being successful](#), and some of those successful people end up [being rich](#). But very few people actually make their mark on the world and leave us all better off for having known them.

5: Never be bored

Creative problem solving will take you into uncharted territory, and the ideas of your colleagues will expose you to different ways of thinking. Be prepared to be fascinated and to have your talents stretched in ways you never expected.

6: Earn a big salary

Engineers not only earn lots of respect, but they're highly paid as well. Even the starting salary for an entry-level job is impressive comparing to other professions. According to a recent survey, entry-level civil engineers can expect to earn an average of \$58K per year. Of course, the residence (location of the work) and the name of the company will impact the annual salary,

with the former having the largest influence.

7: Enjoy job flexibility

An engineering degree offers you lots of freedom in finding your dream job. It can be a launching pad for jobs in business, design, medicine, law, and government. To employers or graduate schools, an engineering degree reflects a well-educated individual who has been taught ways of analyzing and solving problems that can lead to success in all kinds of fields.

8: Travel

Field work is a big part of engineering. You may end up designing a skyscraper in Europe or developing safe drinking-water systems in Asia. Or you may stay closer to home, working with a nearby high-tech company or a hospital.

9: Make a difference

Everywhere you look you'll see examples of engineering having a positive effect on everyday life. Cars are safer, sound systems deliver better acoustics, medical tests are more accurate, and computers and cell phones are a lot more fun! You'll be giving back to your community.

10: Change the world

Imagine what life would be like without pollution controls to preserve the environment, lifesaving medical equipment, or low-cost building materials for fighting global poverty. All this takes engineering. In very real and concrete ways, engineers save lives, prevent disease, reduce poverty, and protect our planet.

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



2022 National Election

FROM: Thomas W. Smith III, P.E., ENV SP, CAE, F.ASCE, Society Secretary

The 2022 national election concluded on Tuesday, June 1, and the Tellers Committee convened this morning to validate the election results. Consistent with the Society's Bylaws,

I am writing to give you formal notification of the results of this year's election. Publication of the results will be provided on the Society's web page, *CE Source*, and in *ASCE News*.

If you have questions regarding the election results, please contact Wendy Dinwiddie, Manager, Executive and Board Operations, at 703/295-6495 or wdinwiddie@asce.org. ■

President-elect Elect:

Marsia Geldert-Murphey, P.E., F.ASCE

Society Directors-Elect:

- Region 2:** Carol C. Martsolf, P.E., PMP, LEED AP, F.ASCE
- Region 6:** Sean P. Merrell, P.E., PTOE, F.ASCE
- Region 7:** Erin M. Steever, P.E., M.ASCE
- Region 10:** April J. Lander, MEM, JP, ENV SP, A.M.ASCE
- Technical Region:** Karen C. Kabbes, P.E., ENV SP, D.WRE, F.ASCE

Region Governors-Elect:

- Region 1:** Shahin Ariaey-Nejad, P.E., M.ASCE
Brad Summerville, P.E., M.ASCE
- Region 2:** John Caperilla, EIT, A.M.ASCE
John J. Segna, P.E., BCEE, F.ASCE
- Region 3:** John C. Lazzara, P.E., ENV SP, M.ASCE
Michael D. Pniewski, P.E., P.S., F.ASCE
- Region 4:** Kevin Krick, P.E., LEED AP, F.ASCE
David F. Meadows, P.E., P.S., F.ASCE
Jennifer L. Sharkey, P.E., M.ASCE
- Region 5:** Chris Rader, P.E., ENV SP, M.ASCE
Rebecca Shelton, P.E., F.ASCE
- Region 6:** No elected vacancies for Region Governor
- Region 7:** Jenifer J. Bates, P.E., M.ASCE
Elizabeth Staten, P.E., M.ASCE
- Region 8:** J. Darren Burton, P.E., M.ASCE
Bernadette "Bernie" Sison, C.ENG, P.E., M.ASCE
- Region 9:** Susan E. Hida, P.E., M.ASCE
Rune Storesund, D.ENG., P.E., G.E., F.ASCE
- Region 10:** Armando Cazzola, Ph.D., P.E., M.ASCE
Chao Li, Ph.D., C.ENG., C.SCI., M.ASCE

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](#).

ASCE-NCS Committee and Branch News and Updates

ASCE-NCS Reston Branch

By Michael J. Magyarics, P.E., M. ASCE,
Reston Branch Vice President

On May 10, 2022, the Reston Branch hosted Richard Lindenberg, PE, Associate Principal at Wiss, Janney, Elstner Associates (WJE), for his presentation entitled, "Almost Disasters...." This was our second hybrid meeting, where all registrants had the option of attending in person or virtually. Rich presented in person at the ASCE Headquarters Bechtel Conference Center to several in-person attendees. The presentation was broadcast live to the virtual registrants for the lunchtime event.



In many structural failures actual certain structural behavior is overlooked in the design process leading to flaws. In his presentation, Rich discussed several case studies where the design overlooked a realized behavior, and a potential disaster was averted by catching the pre-cursor distress in an inspection. The subsequent investigations revealed the underlying cause and origin

Since joining WJE in 2001, Richard Lindenberg has worked on variety of projects, using his specialized experience in structural evaluation through structural modeling and instrumentation. Most of his assignments involve bringing an innovative approach to field data collection, data analysis, and visualizations. He also works extensively in the investigation and design of repairs for parking structures, bridges, buildings, and facades. These projects typically include analysis, repair design, development of repair specifications, and construction observation. Prior to joining WJE, Mr. Lindenberg worked as an engineer for Davis, Bowen, and Friedel, Inc., and designed a variety of structures, including water retaining structures, commercial buildings, timber bridges, and shoreline protection. Prior to this, he worked in the oil and gas industry as a facilities engineer supporting production and pipeline services.

The Reston Branch typically takes a break from holding meetings over the summer months. Monthly lunchtime meetings and presentations will resume in September. However, we are planning

on having a social event during the summer. Please be on the lookout for more details coming soon.

The Reston Branch has 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/>

Upcoming Events: Summer Social Event – Date, time and location to be determined

History & Heritage Committee News

Submitted by Bernie Dennis

ASCE-NCS members joined ASCE Executive Director, Tom Smith and VA Section members to rededicate the Crozet Blue Ridge Tunnel as an ASCE National Historic Civil Engineering Landmark (NHCEL) with a new plaque on Saturday, June 4, 2022. The original plaque presented in 1976 was lost so a new plaque was presented to representatives of Nelson County, VA, the VDOT Lynchburg District, and the Claudius Crozet Blue Ridge Tunnel Foundation. These three entities, plus others, worked over the last 20 years to clean and restore access to the historic tunnel which was closed in the 1940s. Nelson County held a grand opening ceremony for the Blue Ridge Tunnel Trail in November 2020, but Covid prevented a proper ASCE presentation at that

time. The VA Section, therefore, appropriately included the rededication and plaque presentation in its Centennial Celebration this year.

Read more on Blue Ridge Tunnel rededicated as historical civil engineering landmark at <https://www.nbc29.com/2022/06/05/crozets-blue-ridge-tunnel-rededicated-historical-civil-engineering-landmark/>.

As part of its Centennial Celebration, the VA Section is highlighting its Historic Civil Engineering Landmarks (National and Local). There are 7 NHCEs designated within Virginia. Our NCS H&H Committee and the VA Section are planning a joint field trip to view the Great Falls Canal and Locks NHCEL for the fall. Watch for further information on this event.

The H&H Committee will have a series of virtual WebEx meetings this summer to plan activities and discuss H&H topics – interesting websites, book reviews, and other areas of committee member interest. The first meeting is planned for June 29th with a second one in mid-July. Join us in our virtual meetings – enjoyable and educational.

Email your interest to Steve Pennington at steve.pennington@geo-instruments.com, and Bernie Dennis at berniedennisjr@gmail.com, and watch for our WebEx meeting announcements. ■



Crozet Blue Ridge Tunnel ASCE National Historic Civil Engineering Landmark Plaque Rededication at east entrance on June 4, 2022. Pictured are ASCE Members of Virginia Section plus ASCE Executive Director Tom Smith (1) and NCS members Vic Crawford (2), Bernie Dennis (3), and LJ Sauter (4). Photo by Susan Dennis