



**OUR MISSION:** Provide essential value to our members and partners, advance Civil Engineering, and serve the public good.

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**News & Updates - January 11, 2025 | Volume 55, Number 2**

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- Webinar - 01/15/25 - Pipe Installation Best Practices - Register [HERE](#)
- Webinar - 01/22/25 - Pipe Fundamentals - Register [HERE](#)
- [Save The Date](#) - 02/12/25 - Dinner Meeting - Lake Williams Dam Rehabilitation
- [Save the Date](#) - 03/12/25 - Dinner Meeting - US 340 Rockfall Mitigation Project
- [Save the Date](#) - 05/09/25 - Senator's Baseball

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Central PA Section Events [Link](#)

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## **ASCE NEEDS VOLUNTEERS LIKE YOU!**

**Please consider joining the ASCE  
Central PA Section Board by contacting**



Loujin Daher at  
[centralpa.asce@gmail.com](mailto:centralpa.asce@gmail.com)

**Open Board Positions Include:**  
*Program Chair*  
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### President's Message



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**overnors Forum and Leader Orientation** was held September 15-16, 2024. Read more [HERE](#)  
(Submitted Sulok Wagley, Central PA YMG VP)



The Central Pennsylvania Future City Competition will be held on **January 18, 2025** at Steelton-Highspire Junior & Senior High School. In the competition, students work with a teacher and engineering mentor as they create cities of tomorrow; components include building a large, 3-D tabletop model of recycled materials; writing an essay;

and creating an oral presentation. More than 30,000 students from 1,100 schools participated in Future City last year. This year's topic is: Design a Floating City Keeping Citizens Healthy and Safe. We will once again send the winner of our competition to Washington, D.C. to compete nationally. Here's how you can help:

**ENGINEERS:** You can help out during the Competition by being a Judge.

**COMPANIES:** Companies can help with monetary donations or donations of prizes and small gifts for the students. This year we are adding stations where volunteers can help students with STEM activities. All help is appreciated.

**EVERYONE:** Want to help, but not sure if you have the time available? Be a Volunteer the day of the competition! Volunteers will help keep things running smoothly the day of the Competition, including set-up, sign-in, and distribution of itineraries, lunch, and breakdown.

For more information on judging, sponsorship or volunteer opportunities contact Steve Roman at [steve.roman@kci.com](mailto:steve.roman@kci.com)

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## Save the Date - March 12, 2025 Dinner Meeting Presentation

### US-340 Rockfall Mitigation Project-Presented by Bryan Radabaugh of Access Limited (GSI)

The US 340 Rockfall Mitigation project, located in Jefferson County, WV, addressed critical rockfall challenges in the Loudoun Heights region of Harper's Ferry National Historical Park. This high-traffic (>24,000 VPD) 2 lane corridor serving local, commuter, and truck traffic from and through West Virginia, Virginia, and Maryland. The corridor faces rockfall hazards due to cut slopes from 1950s construction and natural erosion along the Shenandoah River. The existing conditions pose threats to public safety, impacting emergency response times and requiring continuous maintenance by the West Virginia Division of Transportation (WVDOT). Additionally, the Loudon Heights includes a trail network and overlook at the top of the slope with access from the Appalachian Trail. Agency collaboration between WVDOT, VDOT, MDOT, FHWA, and NPS were vital to the project planning and successful construction. The project included a 22-mile detour involving routes in WV and VA as well as impacting traffic flows into MD.

Access Limited Construction (ALC), a geohazard mitigation specialist, collaborated with Triton Construction, WVDOT, HDR Engineering (WVDOT's engineer of record), Ice Engineering (WVDOT's inspection Team) and Infinite Consulting and Engineering, respectively, to implement comprehensive rockfall protection and stabilization measures. ALC incorporated safety and maintenance scaling techniques and constructed advanced rockfall protection systems provided by GeoBrugg North America LLC on three slopes along US-340. Access Limited teamed with Infinite Engineering, LLC. to complete final design of rockfall systems. Rockfall slope drape, rockfall attenuator barrier, rockfall barrier, rock overhang removal and localized rock bolting were strategically deployed to stabilize slopes and mitigate the risk of potential rockfalls. The integration of technology, including horizontal drain installation, added an extra layer of protection.

The ALC and Triton Construction team ensured a seamless integration of geohazard expertise and construction proficiency. ALC completed approximately ½ mile of rockfall mitigation measures up to 300 feet above the roadway complimenting Triton's efforts to resurface the project limits, complete sign replacements and pavement markings all in less than 90 days. ALC successfully mitigated rockfall risks along the vital US 340 corridor on an accelerated schedule to enhance public safety.

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**2025 Legislative Fly-In - March 26 – 28, 2025,**  
Washington, D.C.

ASCE's Legislative Fly-In in Washington, DC is an intensive two-day event providing participants with professional development in honing their skills in the public policy process and advocacy peer-to-peer networking. ASCE members will have an opportunity to meet with their Members of Congress and advance the Society's collective policy priorities while learning beneficial leadership skills they can bring back to their Sections, Branches, and workplace. The 2025 Legislative Fly-In will be held in conjunction with the release of the 2025 Report Card for America's

Infrastructure and will be an opportunity for ASCE members to share the final report with their Members of Congress.

More information can be found [HERE](#).

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# FAILURE TO ACT



Economic Impacts of Status Quo  
Investment Across Infrastructure Systems

**OVER THE NEXT 20 YEARS, AMERICA'S  
OVERDUE INFRASTRUCTURE BILL WILL  
COST THE AVERAGE AMERICAN HOUSEHOLD**

**\$3,300  
A YEAR**



When we fail to invest in our infrastructure, we pay the price. Poor roads and airports mean travel times increase. An aging electric grid and inadequate water distribution make utilities unreliable. Problems like these translate into higher costs for businesses to manufacture and distribute goods and provide services. These higher costs, in turn, get passed along to workers and families.

The average **AMERICAN HOUSEHOLD** LOSES **\$63 A WEEK**  
due to **CHRONIC UNDERINVESTMENT** in infrastructure.  
What could you buy with \$63 a week, or \$275 a month?



TAKEOUT  
DINNER  
FOR A  
FAMILY OF  
FOUR EACH  
WEEK.



STARTING  
A COLLEGE  
FUND.



DOING A  
HOME  
RENOVATION  
PROJECT.

**We are already paying the price, but IF WE FAIL TO ACT  
NOW, OUR COSTS WILL MOUNT EXPONENTIALLY.**

Of the total economic impacts projected in our 20-year study, more than three-quarters occur during the second decade (2030-2039).

If we don't act, by 2039 we are forecasted to lose:

**\$10.3  
TRILLION**  
in GDP from 2020-2039,  
nearly half of the  
annual U.S. GDP in 2019.

**\$2.4  
TRILLION**  
in exports from 2020-2039,  
or more than all of the  
Fortune 500 companies  
generated in profits in 2019.

**3  
MILLION**  
jobs, two times the  
number of Walmart  
employees in the U.S.

This study was conducted in 2020. The Infrastructure Investment and Jobs Act became law in November 2021, reversing federal underinvestment trends. The full impacts of the law aren't yet known. However, it's already clear that while the \$1.2 trillion bipartisan infrastructure law is enormously helpful, it doesn't fully close our investment gap. This means American families and businesses are still paying the price for underperforming infrastructure.

**LEARN MORE AT** [infrastructurereportcard.org/economicstudy](https://infrastructurereportcard.org/economicstudy)

Inefficient, unreliable  
infrastructure is a drag on the  
U.S. economy and will hurt the  
GDP and create job losses.



**47%**

of the projected jobs lost  
in 2039 will be in high wage  
and high production jobs like  
manufacturing and healthcare.

**The good news is we can ACT NOW**  
to mitigate the harm to our GDP,  
trade volumes, and declines in  
personal income. Let's  
**reverse the decade of  
underinvestment in our  
infrastructure and help all  
communities thrive.**



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# FREE PDHs



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**ASCE Member Yearly Article Pack** ➔

ASCE members now receive five free article downloads from the ASCE Library each year (except standards).

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