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# DELAWARE VALLEY GEO-INSTITUTE

DVGI - April, 2026

Volume 26, Issue 4

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## April 2026 — ASCE Philadelphia Multi-Technical Dinner Meeting

**DVGI SPEAKER:** Mohab A. Hussein, PhD, PE, PMP, DBIA — NJDOT

**TOPICS:** "NJDOT Route 80 Emergency Repairs Project ”

**DATE:** Tuesday April 14, 2026 – Social Hour 5:30 PM to 6:30 PM; Dinner 6:30 PM to 7:30 PM; Presentations 7:30 PM to 8:30 PM

**WHERE:** The Inn at Swarthmore – 10 S Chester Rd, Swarthmore, PA 19081

**Cost: \$80 General, \$55 Student/Government**

**MEETING ABSTRACT:**

The NJDOT Route 80 Emergency Repairs Project was implemented in Morris County to stabilize a section of I-80 impacted by sinkhole collapses linked to abandoned workings of the historic Mt. Pleasant Mine, opened in 1786. The mine, once extending 2,300 ft in length and nearly 700 ft deep, left undocumented voids and weak zones beneath the interstate. Distress first appeared in December 2024 with a 40 ft x 40 ft sinkhole, followed by additional depressions and additional failures in early 2025.

NJDOT’s emergency response integrated detailed geotechnical investigations with advanced stabilization measures. Surface geophysical methods (ground-penetrating radar, multi-channel analysis of surface waves, microgravity) and borehole surveys (sonar, acoustic and optical televiwers, video inspection) were used to characterize subsurface conditions.

More than 3,000 CY of low-mobility compaction grouting was injected through a grid of boreholes to densify fractured rock and fill voids. Structural remediation included a 1,677 CY reinforced concrete slab supported by 150+ micropiles, designed to transfer highway loads onto competent strata. The project demonstrates the geotechnical challenges of reconstructing critical infrastructure over abandoned mine lands and highlights the effective use of compaction grouting, micropile-supported slabs, and accelerated construction sequencing to restore stability, durability, and resilience along one of New Jersey’s most heavily traveled corridors.

**ABOUT THE SPEAKER:**

**Mohab A. Hussein, PhD, PE, PMP, DBIA** is a seasoned engineer with extensive experience in the planning, design, and oversight of major infrastructure programs. As the State Geotechnical Engineer at the New Jersey Department of Transportation (NJDOT), he has overseen more than 275 transportation projects totaling over \$21 billion, covering bridges, highways, tunnels, rail facilities, dams, and other key transportation assets. Dr. Hussein also served as the New Jersey Governor’s Office representative overseeing the Gateway Program and Hudson Tunnel Project, working with Amtrak, the Port Authority of NY & NJ, the State of New York, and the Gateway Development Corporation to establish and approve technical standards for one of the nation’s most critical infrastructure initiatives. In addition, Dr. Hussein has worked directly with FEMA, providing technical expertise during emergency response operations and supporting federal–state coordination on infrastructure safety, hazard mitigation, and post-disaster assessments.



The State of New Jersey  
**Department of  
Transportation**

**Please register by April 10th, 2026 at:**

[DVGI April Dinner Meeting](#)



## March 2026 — DVGI Student Night 2026 Dinner Meeting

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**Keynote Speaker: Mike Giovannitti, PE — American Geotechnical & Environmental Services (AGES)**

**Student Speakers: Siamak Yoosefi (University of Delaware), EunSik Choi (Villanova University), Mohammad Amin Nozari (University of Delaware)**

**Topics: "Keynote Address and Various Student Topics"**

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### MEETING ABSTRACT:

DVGI hosted its Annual Student Night meeting on Tuesday, March 31, 2026 at the Villanova University Connelly Center. The meeting featured student poster presentations and corporate sponsor table displays during the social hour, a keynote address by the ASCE Philadelphia Section's 2025 ASCE Philadelphia Section Geotechnical Engineer of the Year (Mike Giovannitti, PE of American Geotechnical & Environmental Services, Inc. (AGES)), three short student presentations, and the DVGI Scholarship award presentations.

### ABOUT THE SPEAKER:

**Mike Giovannitti, PE** is a Senior Geotechnical Engineer and serves as the King of Prussia location's Branch and Office Manager at American Geotechnical and Environmental Services, Inc. (AGES). Mike received his Bachelor of Science degree in Civil and Environmental Engineering from the University of Pittsburgh in 1995. He has been with AGES in various capacities for 26 years and has held the position of Branch Manager since 2005. He has professional engineering licensure in four states and the District of Columbia and has been active in DVGI as well as a presenter for the Structural Engineering Institute (SEI) Philadelphia Chapter.

### ABOUT THE STUDENTS:

**STUDENT SPEAKERS: Siamak Yoosefi (University of Delaware)** studies X-ray CT imaging for evaluation of coastal soil structure. **EunSik Choi (Villanova University)** studies LiDAR-based rockfall hazard assessment and monitoring. **Mohammad Amin Nozari (University of Delaware)** studies UAS photogrammetry and ground control optimization for pavement assessment.

**POSTER PRESENTERS: Daniela Marin (University of Delaware)** presented "Landsat Imagery to Predict NDVI, NDMI, MNDWI, and BSI", **Shannon Stewart (Villanova University)** presented "Geotechnical Properties, Hydrodynamics, and Geomorphological Change", **Yogesh Joshi (University of Delaware)** presented "Liquefaction Assessment Through Field Forensics in Diverse Depositional Environments", and **Siamak Yoosefi (University of Delaware)** presented "The Geomechanical Behavior of Spartina Alterniflora Vegetated Soil in Delaware Salt Marshes".

### SCHOLARSHIP RECIPIENTS:

#### 7 Winners – \$10,000 Dispersed

- **Anish Neupane** (*University of Delaware*)
  - **EunSik Choi** (*Villanova University*)
  - **Jocelin Mayorga** (*Widener University*)
  - **Yogesh Joshi** (*University of Delaware*)
  - **Danielle Hughes** (*Drexel University*)
  - **Hannah Ford** (*Lafayette University*)
  - **Maria Dezalene Cierte** (*Rowan University*)
-



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## March 2026 — DVGI Student Night 2026 Dinner Meeting

### Photo Gallery





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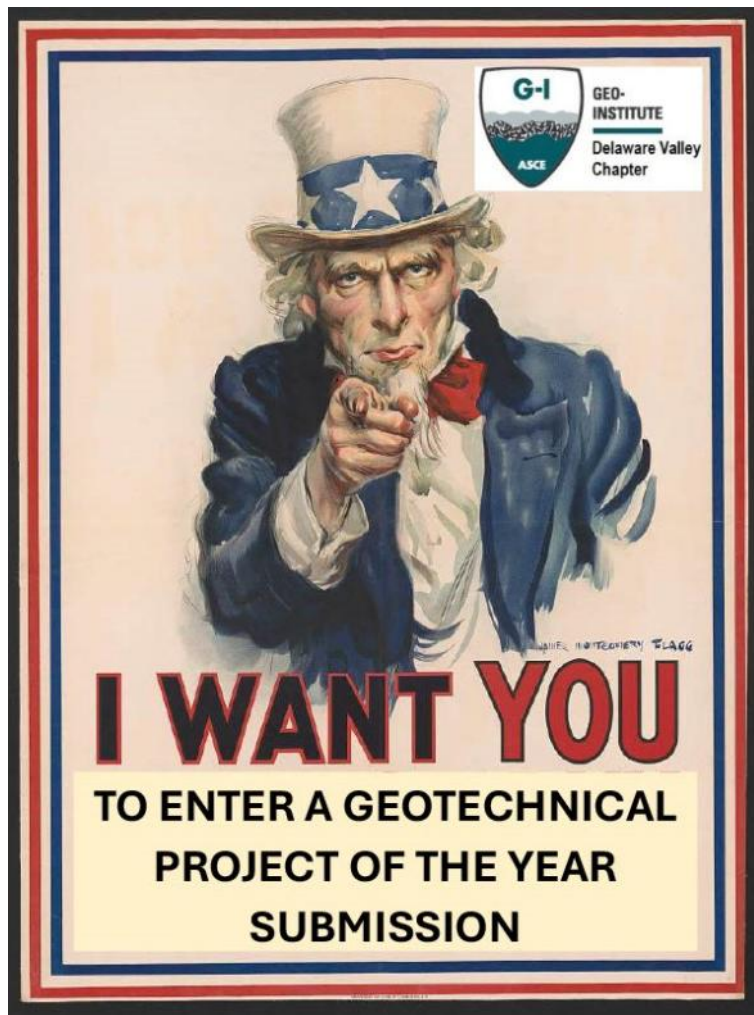
## **ANNOUNCEMENTS — DVGI Geotechnical Project of the Year Award**

We want to hear about the work **YOU** do! Each year, DVGI recognizes a distinguished geotechnical project recently completed in the region based on submissions by its member organizations. The recipient of the DVGI Geotechnical Project of the Year (GPOY) Award has the opportunity to present their project and receive their award at our September 2026 meeting.

Submissions are featured in the DVGI Newsletter in the order received. DVGI will announce the winner at its May Dinner Meeting on May 19, 2026 at Valley Forge Casino Resort's Parkview Ballroom (registration details to be provided at a later date). Project submissions will be accepted through May 1, 2026. Best of wishes in preparing your submissions – we look forward to seeing them!

You may download the submission template for your 2026 GPOY submission by visiting <https://dvgi.org/awards>.

**Project submissions will be accepted through May 1, 2026.**





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## ANNOUNCEMENTS — DVGI Golf Outing



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#### AGENDA

- 8:00 - 8:30 AM** Golfer Check-In
- 9:00 AM** Shotgun Start
- 11:30 - 3:30 PM** Lunch and Awards

#### COST

Golf Registration **\$125 (Includes cart, food, and drink)**  
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Registration Details Coming Soon!  
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The advertisement features a background image of a large steel bridge under construction. The word 'LANGAN' is prominently displayed in white, bold, sans-serif font across the top. Below it, a dark blue banner contains the text 'WE ARE HIRING!' in white. The main body of the ad is white with a dark blue footer containing the website URL. On the right side, there are two award logos: a 'Hot Firm' award with a flame icon and a '2024 Best Firms To Work For' award with a starburst icon.



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Upcoming Dates for 2025-26 Dinner Meetings, Webinars and Events are as follows:

04/14/2026 — Joint Multi-Tech Meeting at The Inn at Swarthmore— Mohab A. Hussein, Ph.D., PE, PMP, DBIA — “NJDOT Route 80 Emergency Repairs Project”

05/19/2026 — Gardner Lecture — Valley Forge Casino “Parkview Ballroom” — Speaker TBD

05/30/2026 — STEM-fest 2026 at the American Helicopter Museum & Education Center, West Chester, PA

6/18/2026 — DVGI Annual Golf Outing — Kimberton Golf Course, Phoenixville, PA

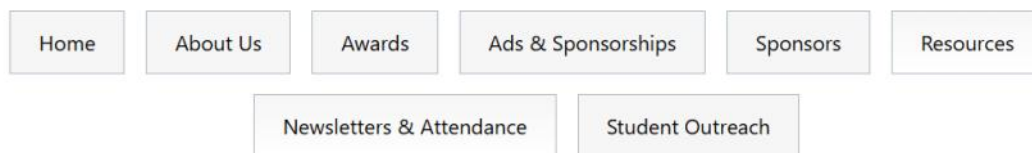
*One PDH will be awarded for most meetings that you attend.*

*If you are interested in presenting at one of our monthly meetings or have ideas about potential speakers, please get in touch with a DVGI board member.*

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## NEW DVGI.ORG WEBSITE

Welcome to Delaware Valley Geo-Institute!



Check out our revamped website at [DVGI.ORG!](https://www.dvgi.org)

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  - Each Webinar Carries 1.5 Professional Development Hours Upon Completion of a 10-Question Multiple Choice Test
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Department of Civil & Environmental Engineering  
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