



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

DELAWARE VALLEY GEO-INSTITUTE

DVGI January 2025

Volume 25 Issue 1

Inside this issue:

Jan 2025 1
 Nov 2024 2
 Announcements 3-9
 Corporate Sponsors 10-12
 Universities 13

**2024-2025
Board of Directors**

Chair

Theresa Andrejack Loux,
Ph.D., P.E.

Past Chair

Jim Beideman, P.E.

Vice-Chair

Bob Crawford, P.E.

Treasurer/Announcements

Lei Gu, P.E.

Secretary/Sponsorship

Jeremy Brown, P.E.

Newsletter Editor

Neil Scafonas, P.E.

Web Advisor

Michael Bennett, P.E.

Director of Scholarship

Daniel Marano, P.E.

Academic Liaison

Robert Swan, Jr., Ph.D.

ASCE Liaison

Russ Preuss, P.E.

Board Advisors

Craig Calabria, Ph.D., P.E.

Social Media

Kayla Nelson, E.I.T.

At-Large Member

Conrad Cho, P.E.

January 2025 DVGI Dinner Meeting

SPEAKER: Glenn R. Santulli, P.E, Project Engineer at GRL Engineers, Inc.

TOPIC: The Jane Hotel Project, Manhattan NY

DATE: Tuesday January 21, 2025 – 5:30 PM to 8:30 PM EST

WHERE: Valley Forge Casino– Parkview Ballroom, 1160 1st Ave, King of Prussia, PA 19406

COST: \$60 Standard, \$30 Government/Retired, \$10 Students

MEETING ABSTRACT:

The historic Jane Hotel located in Manhattan in New York City underwent renovations to modernize the hotel. This historic landmark was built in the early 1900’s and was famous for housing ship crew members in the 20th century. Located right off the Hudson River, near many historic shipping piers, royalty often stayed at this hotel when entering the US. Titanic survivors were brought to this hotel once rescued.

Maintaining the historic building’s character and exterior face were critical. Designs included a deep foundation for a new elevator shaft inside the existing building. Stelcor helical piles were selected for installation in 5 ft sections. Grout would be pumped into the helical pile during installation to create a “grout column” that would be similar in size to the helical flights at the bottom of the helical piles.

ABOUT THE SPEAKER:

Glenn R. Santulli, P.E. is a project engineer at GRL Engineers, Inc. from the Pennsylvania office. Glenn has over 10 years of industry experience in deep foundations. He started his career as a field engineer for a general contractor in Philadelphia for a highway/bridge project and has now been with GRL Engineers for over 8 years. He has 8 years of experience in deep foundation testing, analysis and consulting services, where he focuses on static and dynamic testing of drilled and driven deep foundations, quality testing of drilled foundations, testing of existing deep foundations (static or dynamic), and offshore and nearshore dynamic pile testing and dynamic pile monitoring. Glenn has performed high strain dynamic testing on pile diameters ranging from 4-inches to over 30 ft. Glenn is a registered professional engineer in Pennsylvania, New Jersey, New York, and Washington D.C.

Glenn has published papers including “Load Testing Drilled Displacement Piles in Difficult Conditions: Jane Hotel Project in Manhattan New York” and has presented case studies at geotechnical seminars. Glenn holds a M.S. and B.S. in Civil Engineering from Drexel University in Philadelphia PA, where he concentrated in Structural Engineering.



Please register at dvgi.org by January 16th



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

2024 NOVEMBER DVGI/CME ASCE Dinner Meeting

Speakers : Sarah McInnes, P.E. and Daniel Gleason, PennDOT, Majid Khabbazian, Ph.D., P.E., Schnabel Engineering

Topic: I-95 Emergency Rebuild

MEETING ABSTRACT:

This well attended presentation discussed the Repair of Interstate 95, and the effort it took to rebuild the damaged portion of the highway in such a short timeframe in June 2023. This presentation addressed the repair work as well as conditions endured during the short design and construction process. Additionally, the mechanically-stabilized earth (MSE) design of the temporary embankment will be reviewed.

ABOUT THE SPEAKERS:

Sarah McInnes is the Senior Assistant Construction Engineer for Construction Services in PennDOT District 6 serving Philadelphia and the four surrounding counties. Prior to holding this position Sarah spent a twenty-five-year career in the Geotechnical Unit and held the District Geotechnical Engineer position for fifteen years. She has been involved in all phases of transportation project development on the geotechnical side and as the Services Engineer oversees materials, structure control, agreements, constructability and schedule review, and a wide variety of construction projects. Sarah has a Bachelor's in Civil Engineering from Syracuse University and a Master's in Civil Engineering from Villanova University.

Daniel Gleason has been in the heavy highway construction industry for 28 years. Dan started as a Transportation Construction Inspector as a consultant and in 2004 was hired by PennDOT. He quickly moved up the ranks and ran bridge projects as the Inspector in Charge. He was then promoted to the Assistant Construction Engineer for Federal Aid Projects. In 2019 Dan became the first Interstate ACE at PennDOT. Some of Dan's projects include the I-95 and PA Turnpike interchange project, and many large sections of I-95 and I-76 in Philadelphia. In 2021 he became a board member of ASCE.

Majid Khabbazian is a Senior Geo-Structural Engineer at Schnabel Engineering in Chadds Ford, PA, and a University of Delaware graduate. He specializes in numerical modeling, ground improvement techniques, risk and reliability analysis, as well as the design of excavation support systems, retaining walls, and deep foundations.



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

2024 NOVEMBER DVGI/CME ASCE Dinner Meeting

Speakers : Sarah McInnes, P.E. and Daniel Gleason, PennDOT, Majid Khabbazian, Ph.D., P.E., Schnabel Engineering

Topic: I-95 Emergency Rebuild





**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

2024 NOVEMBER DVGI/CME ASCE Dinner Meeting

Speakers : Sarah McInnes, P.E. and Daniel Gleason, PennDOT, Majid Khabbazian, Ph.D., P.E., Schnabel Engineering

Topic: I-95 Emergency Rebuild





**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

ANNOUNCEMENTS

KELLER

THE LEADING GEOTECHNICAL SPECIALTY CONTRACTOR

- Deep foundations • Environmental remediation • Ground improvement • Groundwater control
- Instrumentation & monitoring • Liquefaction mitigation • Releveling structures • Design-build
- Slope stabilization • Support of excavation • Underpinning

keller-na.com • 610-353-0600



HIGH STRAIN DYNAMIC PILE MONITORING AND ANALYSIS

- Data Collection and Monitoring
- Assessment of Bearing Capacity
- Calculation of Driving Stresses
- Onsite or Remote Analysis



GRL Engineers, Inc. | (610) 459-0278 | grl-pa@grlengineers.com



**GEO-
INSTITUTE**
Delaware Valley
Chapter

ANNOUNCEMENTS

Upcoming Dates for 2024-25 Dinner Meetings and events are as follows:

1/21/2025 – Tuesday– Glenn R. Santulli,P.E., GRL

2/18/2025 – Tuesday – Joint SEI Meeting – Sitotaw Fantaye, Mueser
Rutledge

3/25/2025 – Tuesday – Student Night

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.

NEW DVGI.ORG WEBSITE

Check out our revamped website at <https://dvgi.org/>

A big thanks to our webpage advisor Michael Bennett, P.E.
for all the hard work!



Welcome to Delaware Valley Geo-Institute!

- [About Us](#)
 - [Awards](#)
 - [Corporate Ads and Sponsorship](#)
 - [Current Sponsors](#)
 - [Geotechnical Resources](#)
 - [Newsletter and Attendance](#)
 - [Students and Scholarships](#)
-



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

ANNOUNCEMENTS

2024-2025 Board of Directors



Chair

Theresa Loux, Ph.D., P.E.
(tloux@aeroaggregates.com)

Past Chair

James M. Beideman, P.E.
(jbeideman@kleinfelder.com)

Vice-Chair

Bob Crawford, P.E.
(bobc@jjaconstruction.com)

Treasurer

Lei Gu, P.E.
(Lei.Gu@mbakerintl.com)

Secretary

Jeremy Brown, P.E.
(jbrown@schnabel-eng.com)

Newsletter Director

Neil Scafonas, P.E.
(neil.scafonas@aecom.com)

Web Advisor

Michael Bennett, P.E.
(mbennett@gfnet.com)

Academic Liaison

Robert Swan, Jr., Ph.D.
(rhs53@drexel.edu)

ASCE Liaison

Russ Preuss, P.E.
(rpreuss@hntb.com)

Board Advisors

Craig Calabria, Ph.D., P.E.
(rcalabria@msn.com)

Director of Scholarship

Daniel Marano, P.E.
(dmarano@pennoni.com)

At-Large

Conrad Cho, P.E.
(ccho@langan.com)

Social Media

Kayla Nelson, E.I.T.
(knelson@schnabel-eng.com)



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

ANNOUNCEMENTS



Geosynthetic Institute

GSI RECORDED WEBINARS

- Topics, and Registration at www.geosynthetic-institute.org/webinar.htm
 - Each Webinar Carries 1.5 Professional Development Hours Upon Completion of a 10-Question Multiple Choice Test
 - Each presentation lasts approximately 90 minutes

ALL WEBINARS WILL BE RECORDED AND CAN BE PURCHASED FOR VIEWING AT YOUR CONVENIENCE

GSI/GMA Members \$200.00 USD per each Webinar

Follow Delaware Valley Geo-Institute @ <https://dvgi.org/>

DFI link to magazine article for Sarah McInnes:

<https://www.nxtbook.com/dfi/DEEP-FOUNDATIONS/november-december-2024/index.php#/p/86>

ASCE/G-I Members:

Read past and present issues of Geo-Strata magazine online at www.asce.org



**GEO-
INSTITUTE**
**Delaware Valley
Chapter**

ANNOUNCEMENTS

HAVE DVGI PUBLISH YOUR ARTICLE, ADVERTISEMENT, OR JOB POSTING

- Do you have an interesting article on a project or individual in your organization that you would like to have published in the DVGI newsletter?
- Would you like to get the word out about a job opening, new venture, etc. to our membership via the newsletter?

Please submit your articles or news items for consideration in the next edition of the newsletter or get in touch about our reasonably priced advertising by contacting Neil Scafonas (neil.scafonas@aecom.com).

Geo-Institute

Books Rock! is a series celebrating the publications of ASCE and the Geo-Institute - you might learn more about our standards, a book on dams, or anything in between! Each episode will feature an in-depth interview with one of our authors so you can go behind the publication! The January episode will feature an interview with Mike McGuire and Elise Hummel, two of the editors of Theory Manual for the Load Displacement Compatibility Method (LDC) for Design of Column-Supported Embankments: A Companion to GeogridBridge 3.0. Hear about the contents of the manual, what the editors left out, how it can help your work, and a lot more! :

<https://www.youtube.com/watch?v=AQcJ0p2D6y4>

Follow our Social Media @ <https://www.linkedin.com/company/delaware-valley-geo-institute>





Creating a Better Future, Together.

Earth Sciences | Water Resources | Transportation | Geospatial
Construction Services

Ara Mouradian, PE, PEng | 610.715.2564 | amouradian@gfnet.com
gannettfleming.com



Ultra-Lightweight Foamed Glass Aggregate

85-90% Lighter than quarried aggregates
High friction angle
Excellent insulating properties

(833) 261-8499 aeroaggregates.com



Solving
Infrastructure
Challenges

610-696-6066
schnabel-eng.com



**JAMES J. ANDERSON
CONSTRUCTION COMPANY, INC.**

6958 Torresdale Avenue, Suite 200
Philadelphia, PA 19135
215-331-7150

ROBERT CRAWFORD, P.E., M. ASCE
Structure Division Chief Engineer
e-mail: bobc@jjaconstruction.com



INNOVATIVE GEOSYNTHETIC SOLUTIONS AND APPLICATIONS

High Strength Reinforcement	Sediment Capping
Drainage	Remediation
Lightweight Fill	Geosynthetic Lining Systems
Recycled Materials	Sustainable Solutions

Archie Filshill, Ph.D. archie@inova-geo.com +1 215-416-7373



Geotechnical Engineers & Geologists

SHORING & UNDERPINNING DESIGN
RETAINING WALL DESIGN
CONSTRUCTION MONITORING AND SOILS LABORATORY

Full-Service Locations

West Berlin, NJ
856-768-1001
Mechanicsburg, PA
717-697-5701
Emmaus, PA
610-967-4540

Corporate Headquarters
115 W Germantown Pike, Suite 200
East Norriton, PA 19401
610-277-0880

Service you can trust
Quality you can count on

www.earthengineering.com



James M. Beideman, PE
Program Manager

jbeideman@kleinfelder.com

180 Sheree Blvd., Suite 3800
Exton, PA
19341

o | +1 610.594.1444
ext. 109
m | +1 610.656.4419
f | +1 610.594.2743

kleinfelder.com



Integrated engineering and
environmental services

Jared Green, PE
Senior Associate

langan.com

1818 Market St #3300,
Philadelphia, PA 19103
(215) 845-8900

Technical Excellence · Practical Experience · Client Responsiveness

D
V
G
I

C
O
R
P
O
R
A
T
E

S
P
O
N
S
O
R
S

Philadelphia Branch - Media, PA
David Harmanos, PE, Regional Manager • dharmanos@hcea.com
Maryland • Washington, DC • Delaware • Pennsylvania • Virginia • Caribbean

HILLIS-CARNES
ENGINEERING ASSOCIATES

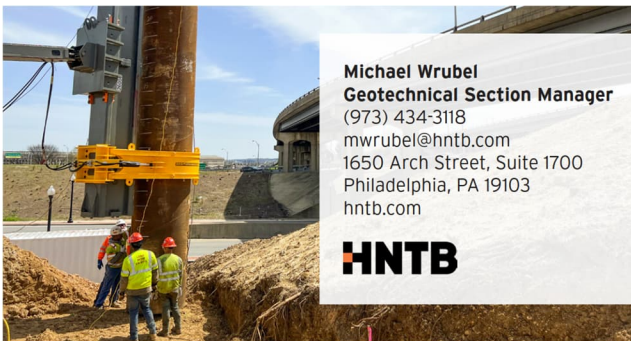
(484) 434-1000 35+ Years Experience hcea.com



**Known for excellence.
Built on trust.**



American Geotechnical & Environmental Services, Inc.



Michael Wrubel
Geotechnical Section Manager
(973) 434-3118
mwrubel@hntb.com
1650 Arch Street, Suite 1700
Philadelphia, PA 19103
hntb.com

HNTB



CONETEC



RIMKUS



Geotechnical speciality contractor

Matt Klanica
Vice President
610-353-0600 • mjklanica@keller-na.com

Martin McDermott, PG
Senior Business Development Manager
908-209-3914 • mmcdermott@keller-na.com

Philadelphia office: 610-353-0600

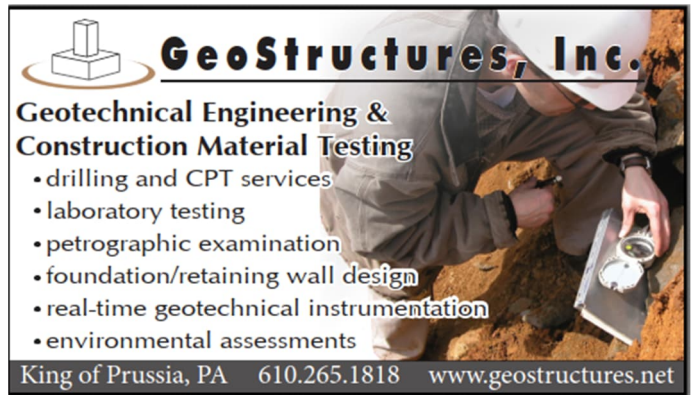
www.keller-na.com



PEIRCE
ENGINEERING INC.

*Design of Excavation Support, Ground Anchors,
Underpinning, Cofferdams, Micropiles...*

1220 Valley Forge Road, Suite 14, Phoenixville, PA 19460
Phone: (610) 933-8353 • Fax: (610) 933-8359
www.PeirceEngineering.com • Mail@PeirceEngineering.com



GeoStructures, Inc.

Geotechnical Engineering & Construction Material Testing

- drilling and CPT services
- laboratory testing
- petrographic examination
- foundation/retaining wall design
- real-time geotechnical instrumentation
- environmental assessments

King of Prussia, PA 610.265.1818 www.geostructures.net



menard
Ground Improvement Specialists

WHY SETTLE?™

Brandon Buschmeier, P.E.
Vice President
Menard USA
Direct (215) 971-2648
Mobile (513) 417-1986
BBuschmeier@menardusa.com

menardusa.com

D
V
G
I

C
O
R
P
O
R
A
T
E

S
P
O
N
S
O
R
S



Justin J. Smith, P.E.
Area Manager – located in Philadelphia

(814) 598-1775 • jsmith@geostructures.com
413 Browning Court • Purcellville, VA 20132
www.geostructures.com

Low-Density Cellular Concrete
Permeable / Non-Permeable

- ▲ Soft Soil Remediation
- ▲ Slope Stabilization
- ▲ Bridge Approach
- ▲ Utility Protection
- ▲ Annular Fill



610.398.7833
aerixindustries.com
info@aerixindustries.com
Allentown, PA



...For Trusted Quality and Service



Kyle T. Plaza, P.E.
Northeast Region Manager

Cell: 609.577.2724
Email: kyle.plaza@subsurfaceconstructors.com

SUBSURFACE CONSTRUCTORS, INC.
8919 NEW FALLS RD, SUITE 15, LEVITTOWN, PA 19054
www.subsurfaceconstructors.com



Consulting
Engineers and
Scientists



Frederick (Rick) Brinker, PE
Associate Vice President/
Geotechnical Division Manager
FBrinker@Pennoni.com

Pennoni
81 Highland Avenue
Suite 230
Bethlehem, PA 18017

T: 610-422-2411
M: 484-894-8989

www.pennoni.com

Question today
Imagine tomorrow
Create for the future



wsp.com



Customized Solutions

Delaware Valley Locations

Philadelphia | Exton | Lehigh Valley
Conshohocken | Mt. Laurel

610 868 4201 | colliersengineering.com

Accelerating success.



T College of Engineering
TEMPLE UNIVERSITY

Joseph Thomas Coe, Ph.D.
Assistant Professor

Civil & Environmental Engineering
1947 N. 12th Street
Philadelphia, PA 19122-6018
t 215-204-6100 f 215-204-4696
e-mail joseph.coe@temple.edu
www.temple.edu/engineering/cee



VILLANOVA UNIVERSITY
Study part- or full-time.
www.vuengineering.com

Combine geotechnical courses with environmental, structural, transportation, or water resources courses or create your own interdisciplinary program.



WHERE THEORY MEETS PRACTICE.

Learn more about **Penn's Master of Science in Applied Geosciences.**

WWW.UPENN.EDU/MSAG

Master of Science in Applied Geosciences



Muhannad T. Suleiman, Ph.D.
Associate Professor

Department of Civil and Environmental Engineering
STEPS Building
1 West Packer Avenue
Bethlehem, PA 18015-3001
(610) 758-2592 Fax (610) 758-6405
e-mail: mts210@lehigh.edu
<http://www.lehigh.edu/~incee>



Beena Sukumaran, PhD
Chairperson
Professor

Department of Civil & Environmental Engineering
Rowan Hall
201 Mullica Hill Road
Glassboro, NJ 08028

856-256-5324
856-256-5242 fax
sukumaran@rowan.edu

LAFAYETTE COLLEGE

Department of Civil and Environmental Engineering

Acopian Engineering Center
740 High Street • Room 319 • Easton, Pennsylvania 18042
TEL 610-330-5437 • FAX 610-330-5059



DREXEL UNIVERSITY
College of Engineering

Robert H. Swan, Jr, PhD
Teaching Professor;
Associate Department Head
For Undergraduates

Department of Civil, Architectural and Environmental Engineering
3141 Chestnut Street
Alumni Engineering Labs 270J
Philadelphia, PA 19104
Tel: 215.571.4561
rhs53@drexel.edu
drexel.edu/engineering



Department of Civil & Environmental Engineering

Christopher L. Meehan, Ph.D., P.E., FASCE
Associate Professor
Director, Delaware Center for Transportation

355 Du Pont Hall
Newark, DE 19716

Phone: 302-831-6074
Fax: 302-831-3640
Email: cmeehan@udel.edu

<http://udel.edu/~cmeehan/>

Widener University