



**GEO-  
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**Delaware Valley  
Chapter**

# DELAWARE VALLEY GEO-INSTITUTE

DVGI November 2022

Volume 22 Issue 8

## Inside this issue:

November 2022 .....	1
October 2022 .....	2
Announcements .....	3-9
Corporate Sponsors .....	10-12
Universities .....	13

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## November 2022 DVGI Dinner Meeting

**SPEAKER:** Eli Brinker and Elisabetta Iannetti, EIT

**TOPIC:** Pennoni 2021-2022 Project of the Year Winner "uCity Square Development"

**DATE:** Tuesday November 15, 2022 – 5:30 PM to 8:30 PM

**WHERE:** Valley Forge Casino, 1160 1st Ave, King of Prussia, PA 19406

**COST:** Cost for general admission \$55. One PDH will be given for verified attendance.

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### MEETING ABSTRACT:

Pennoni has provided Geotechnical, Environmental, Construction Inspection, and Surveying Services for four new buildings on the 36th to 38th and Filbert Street blocks. The projects consist of the flagship uCity Square Life Sciences Building, the Powel Elementary Science and Leadership Academy (PSLAM), the Drexel Academic Tower (DAT), and 3700 Lancaster Avenue. All four buildings were under construction at the same time. The foundation systems for the buildings consisted of a combination of drilled shafts (commonly called caissons) and a mat foundation below the core of the building for the DAT and uCity square projects, while PSLAM and 3700 Lancaster were supported on aggregated piers and rigid inclusions, respectively.

The presentation will outline the design of the foundation systems and provide a summary of the geotechnical investigation, laboratory testing of soil and rock samples, engineering analysis, and observations made by the geotechnical consultant who was involved in the project throughout the investigation and construction process. The importance of keeping the geotechnical engineer of record involved throughout the investigation and construction will be examined and discussed.

### ABOUT THE SPEAKERS:

The presentation will be presented by Elisabetta Iannetti, EIT and Eli Brinker of Pennoni Associates.

Ms. Iannetti serves as an Associate Engineer in the Pennoni Geotechnical Group in Philadelphia. She received a BS in Civil Engineering from George Mason University in 2018 and is currently attending Drexel University getting her MS in Civil Engineering with a concentration in Geotechnical Engineering. Ms. Iannetti is affiliated with ASCE, PWC (Philadelphia), DFI, and ADSC.

Mr. Brinker is a Graduate Engineer in the Pennoni Geotechnical Group in Philadelphia. He received a BS in Civil Engineering from the University of Maine in 2019. Mr. Brinker is affiliated with ASCE, DFI.

**Please register online via link by November 8, 2022:**

<http://events.constantcontact.com/register/event?llr=aos5oylab&oeidk=a07ejggox556aa30b49>



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## October 2022 ASCE-DVGI Joint Meeting

**Speaker :** Professor Jie Han, Ph.D., PE, F.ASCE, Roy A. Roberts (University) Distinguished Professor in the Civil, Environmental, and Architectural Engineering Department at the University of Kansas

### MEETING ABSTRACT:

Geosynthetics have been successfully used to improve performance of column-supported embankments on soft soils. Geosynthetic-reinforced column-supported embankments involve complex load transfer mechanisms, including soil arching, tensioned membrane, and column-soil interaction. This lecture proposes a simplified and unified design procedure based on the ground reaction curve and considering subsoil resistance and tensioned membrane effects of strain strips to reasonably predict stresses, settlements, and tensile strains of the geosynthetic reinforcement, and verify this design procedure with two case studies of geosynthetic-reinforced column-supported embankments.

### ABOUT THE SPEAKER:

Dr. Jie Han is a Roy A. Roberts (University) Distinguished Professor in the Civil, Environmental, and Architectural Engineering Department at the University of Kansas. He is a board governor of the ASCE Geo-Institute, the chair of the US Transportation Research Board (TRB) Transportation Earthworks committee, and the specialty chief editor of Frontiers of Built Environment. Prof. Han has gained extensive teaching, research, and industry experiences in geosynthetics, ground improvement, pile foundations, buried structures, and roadways. He is the sole author of the book entitled "Principles and Practice of Ground Improvement" and has published more 450 peer-reviewed journal and conference papers. Prof. Han has been invited to give more than 200 keynote/invited lectures and short courses around the world, including the State of the Practice Lecture at the 21st Annual George F. Sowers Symposium in Atlanta, Georgia in 2018, the 18th UK IGS Lecture in London in 2018, and the 3<sup>rd</sup> Robert M. Koerner Award Lecture in 2021. He has received numerous awards from the profession including but not limited to the 2014 the International Geosynthetics Society Award, the 2017 ASCE Martin S. Kapp Foundation Engineering Award, and the 2018 ASCE Kansas City Section Engineer of Year Award. Prof. Han was elected to the ASCE Fellow in 2014.





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### **\*\*DVGI PROJECT OF THE YEAR\*\***

4<sup>th</sup> Annual DVGI Geotechnical Project of the Year Competition

Submissions to be accepted through April 1, 2023

Project of the Year to be selected in April 2023

Projects to be featured in DVGI Newsletters!

Please submit applications to Theresa Loux at [tloux@aeroaggregates.com](mailto:tloux@aeroaggregates.com)

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### **\*\*DVGI GEOTECHNICAL ENGINEER OF THE YEAR\*\***

2023 DVGI Geotechnical Engineer of the Year Nomination

Submissions to be accepted through January 15, 2023

Any questions and nomination materials may be directed to Bob Crawford ([bobc@jjaconstruction.com](mailto:bobc@jjaconstruction.com))

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## **DVGI's 2023 Scholarship and Student Night Presentation Applications**

Wanted to provide a reminder that *DVGI's 2023 Scholarship and Student Night Presentation Applications* are opening soon and will be ***Due February 1, 2023***. Please share these with deserving civil engineering or geo-science students you know for consideration by this year's DVGI scholarship selection committee.

Student scholarships will be awarded at this year's DVGI Student Night, scheduled for March 16, 2023.

Applications for downloading as well as additional information on scholarships and on DVGI's Student Night will be available at the [www.dvgi.org](http://www.dvgi.org) website under the "Students/Scholarship" tab. Both the scholarship and student night presentation applications must be received by February 1, 2023 for consideration.

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### 2022 Landreth Steward of the Environment Award

Winner 2022: Theresa Andrejack Loux, Ph.D., P.E.,



## **Geosynthetic Institute**

The Geosynthetics Institute (GSI) provide this award to recognize “distinguished engineering achievement related to the environment.” We are proud to announce our own board member at DVGI as the 2022 winner: Theresa Andrejack Loux, Ph.D., P.E.

Congratulations, Theresa!

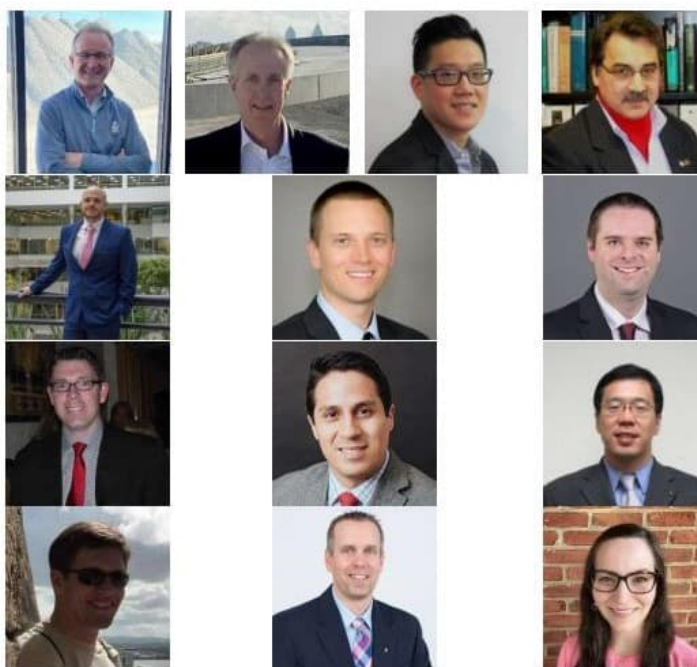
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## ANNOUNCEMENTS



**Geosynthetic Institute**

### Upcoming GSI Webinars for 2022

*11:30 AM—1:00 PM (Eastern Time)*

*(1.5 PDH each / upon completion of exam)*

Topics, Dates and Registration at [www.geosynthetic-institute.org/webinar.htm](http://www.geosynthetic-institute.org/webinar.htm)

December 7	<b>W-34</b>	Geosynthetics in Roadways - <a href="#">Description</a>
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ALL WEBINARS WILL BE RECORDED AND CAN BE PURCHASED FOR VIEWING AT  
YOUR CONVENIENCE

GSI/GMA Members \$200.00 USD per each Webinar  
Non GSI/GMA Members \$250.00 USD per each Webinar

ASCE/G-I Members:

Read past and present issues of Geo-Strata magazine online at [www.asce.org](http://www.asce.org)





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## ANNOUNCEMENTS

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Upcoming Dates for 2022-23 Dinner Meetings and events are as follows:

11/15/22 – Eli Brinker and Elisabetta Iannetti - Pennoni 2021-2022 Project of the Year Winner “uCity Square Development”

*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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### *On Director's Cut*

Geo-Institute Director Brad Keelor interviews G-I members about anything and everything. You might hear about their favorite geotechnical project, their favorite music, or their favorite pie. In Episode 18 of Season 3, Brad speaks with Theresa Andrejack Loux of Aero Aggregates!

See the video here: <https://youtu.be/Gn-aDAHfCXg>

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ASCE/G-I Members:  
Read past and present issues of Geo-Strata magazine online at [www.asce.org](http://www.asce.org)

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## ANNOUNCEMENTS

# DELAWARE VALLEY ENGINEER OF THE YEAR 2023 AWARD



Engineers Club of Philadelphia  
Founded in 1877

Delaware Valley Engineers Week | February 16-25, 2023



## Call for Nominations – Delaware Valley Engineer of the Year

### Attention all Engineering and Technical Societies of the Delaware Valley!

On behalf of the engineering and technical societies of the Delaware Valley, the Engineers' Club of Philadelphia is issuing this call for nominations. If you have an individual that you feel is worthy of such recognition, please nominate him/her for 2023 Delaware Valley Engineer of the Year. **The deadline for submission of nomination packages is 5:00 pm on Friday, October 28, 2022.** Societies are encouraged to team up with other societies in preparing a nomination.

You are encouraged to contact the EOY Coordinator\* to let us know if you are considering or intending to nominate a candidate. Information on all the candidates will be posted at [www.engrclub.org](http://www.engrclub.org) prior to the election.

The complete *Engineer of the Year Nomination Packet* contains important details on the qualifications, election process, and duties of the selected Engineer of the Year and should be read by all intending to submit a nomination. The packet is available at [www.engrclub.org](http://www.engrclub.org).

#### NOMINATION PROCESS

Nominations must be submitted by one of the technical and professional societies in the Delaware Valley by **Friday, October 28, 2022.**

#### NOMINATION SUBMISSION

Submit the Nomination Form, a 1000-word biography, and photograph to Mark Kinnee\*. (See the nomination form for file specifications.)

The candidates will also be asked to attend the election and address the delegates prior to the election.

#### ELECTION PROCESS

Delegates from the Engineering and Technical Societies of the Delaware Valley<sup>1</sup> will vote on the Delaware Valley Engineer of the Year the week of **November 14, 2022**. The voting will most likely be held electronically and additional information will be provided.

Each society is entitled to appoint two delegates to the election. Each society's list of delegates is due to the Club\* by **Friday, November 4, 2022.**

<sup>1</sup> Bucks, Chester, Delaware, Montgomery and Philadelphia counties in Pennsylvania and Burlington, Camden, Gloucester, Mercer and Salem counties in Southern New Jersey)

#### QUALIFICATIONS AND DUTIES OF THE DV EOY

There are specific qualifications and duties expected of the EOY, as noted in the Engineer of the Year Nomination Packet. Briefly, the EOY should have a career of achievement and leadership, be a person of stature and visibility; and be a person who will represent the profession well and proudly acclaim its virtues.

**\*Questions and Submissions:** Nominations and any questions should be directed to the EOY Coordinator, Mark Kinnee, PE at (215) 922-8081, x1667 or [markkinnee@urbanengineers.com](mailto:markkinnee@urbanengineers.com). The list of delegates to the election should be emailed to the Club at [contact@engrclub.org](mailto:contact@engrclub.org).





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### **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](mailto:neil.scafonas@aecom.com)).

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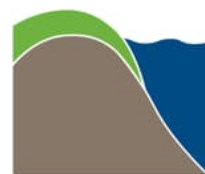


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