Inside this issue:
March 2018 Dinner Meeting........1
February 2018 Dinner Meeting......2
Announcements ..........................3-4
Member Spotlight...........................5
Job Posting..................................6
Events and Conferences.............7-11
Sponsors and Universities.........12-15

2017-18 Board of Directors

Chair
Archie Filshill, Ph.D.

Past Chair
James A. McKelvey III, P.E.

Vice-Chair
Russ Preuss, P.E.

Treasurer
James M. Beideman, P.E.

Secretary
Eric Backlund, P.E.

Newsletter Director
Theresa Loux, Ph.D., P.E.

Web Advisor
Robert Crawford, P.E.

Academic Liaison
Joseph Coe, Ph.D.

ASCE Liaison
Robert M. Sabanas, P.E.

At-Large Directors
Jerry (Tse-Wei) Chen
Jeremy Brown, P.E.

Board Advisors
William K. Petersen, P.E.
Craig Calabria, Ph.D., P.E.

March 2018 DVGI Dinner Meeting

SPEAKER: Christopher A. Lawrence., P.E., Principal Project Manager & Chief Engineer, Ports and Maritime Group, Jacobs/CH2M, Philadelphia, PA

TOPIC: STUDENT NIGHT 2018!!!

DATE: Thursday, March 15th, 2018

LOCATION: Villanova University, Connelly Center, 800 Lancaster Ave, Villanova, PA

TIME: 5:30 PM Social Hour, 6:30 PM Dinner and 7:15 PM Presentation

***Registration and Payment Online at www.dvgi.org**

The DVGI Student Night will again be hosted by Villanova University. This year’s event will include a keynote address by Christopher A. Lawrence, P.E., Principal Project Manager & Chief Engineer for the Ports and Maritime Group of Jacobs/CH2M. Following the keynote address there will be three short student presentations and the DVGI Scholarship awards. The student presenters include Ian Nordfors, (Widener University), James Press (Villanova University) and Alireza Kordjazi (Temple University). As in past years, we again encourage our Student Night Corporate Sponsors to set up a booth at the event.

ABOUT THE KEYNOTE SPEAKER:

Christopher A. Lawrence, P.E., is a Principal Project Manager and Chief Engineer with Jacobs/CH2M’s Ports and Maritime group. Chris received both his BSCE (’85) and MSCE (’87) from Drexel University. He started as a geotechnical engineer in CH2M’s Milwaukee office, transferring home to Philadelphia in 1994. As a geotechnical engineer, he has supported a large variety of environmental, water, and transportation projects. Since 1999, Chris has largely been focused on construction and modernization of marine terminals, including the only land reclamation project in Central America, every significant container terminal in the Port of New York and New Jersey, 3 of the 4 automated terminals constructed in the western hemisphere, and the Paulsboro Marine Terminal, the only new terminal constructed on the Delaware River in nearly 50 years. Chris also served as Area Manager for the CH2M Philadelphia office from 2015 to 2017.
February 2018 Dinner Meeting

Stabilization of Mississippi River Bank Using Driven Pin Piles

Dr. Glen R. Andersen, P.E., Principal Engineer, Ardaman & Associates

A recent bank instability in the Lower Mississippi River was threatening a commercial docking facility. This presentation describes the geotechnical engineering approach used to stabilize the slope. It involved the use of a series of large diameter open-ended steel pipe piles. Historical movements of the dock, previous subsurface explorations, and an understanding of the site geology were used to infer the complex geometry of the slide plane. A subsurface exploration with continuous undisturbed sampling and careful visual analyses of the soil samples were used to identify the slide plane. Laboratory strength testing including the use of the Direct Simple Shear device were used to characterize the soil strengths. Instrumented pin piles were utilized to verify the geometry of the slide plane and permitted the calibration of a soil-structure interaction model to estimate the lateral forces being carried by the pin piles. Both L-Pile and continuum mechanics modeling based on the Finite Element Method were used to estimate the contribution of the pin piles to the slope stabilization and to select a pin pile spacing. The design for this stabilization was implemented using the Observational Method and the number of pin piles, pile spacing, and depth were verified by field measurements.

ABOUT THE SPEAKER:
Dr. Glen Andersen, P.E., is a Principal Engineer with Ardaman and Associates. He received BSCE from BYU, and his MS and PhD in Geotechnical Eng. from MIT. He has been a research engineer for the Chevron Oil Field Research Company, and a professor of Civil Engineering at Tulane University, Texas A&M University and Michigan State University. After his 10 year academic career he began work as a consulting engineer and has held senior engineering positions in various firms across the country. Glen’s expertise are in the field of earthen dams, levees, flood control structures, structures on expansive soils, slope stabilization, and soft ground construction. He has performed and/or supervised seepage and stability analyses on hundreds of cross sections for flood control structures located in Louisiana, Illinois, New Mexico, and Texas. He enjoys soil/structure interaction modeling and is an expert in forensic evaluations involving complex soil/structure interaction behavior.

All images courtesy of presenter
ANNOUNCEMENTS

2017-18 Board of Directors


Chair
Archie Filshill, Ph.D.
(archie@aeroaggregates.com)

Past Chair
James A. McKelvey III, P.E.
(jaym@earthengineering.com)

Vice-Chair
Russ Preuss, P.E.
(rpreuss@gfnet.com)

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

Secretary
Eric Backlund, P.E.
(ebacklund@kleinfelder.com)

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

Web Advisor
Robert Crawford, P.E.
(bobc@jjaconstruction.com)

Academic Liaison
Joseph Coe, Ph.D.
(joseph.coe@temple.edu)

ASCE Liaison
Robert M. Sabanas, P.E.
(bsabanas@gmail.com)

At-Large Directors
Jerry (Tse-Wei) Chen
(chenj2@pbworld.com)

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

Board Advisors
William K. Petersen, P.E.
(wpetersen@schnabel-eng.com)

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

Upcoming GSI Webinars for 2018
(1.5 PDH/each upon completion of exam)

11:30 AM—1:00 PM (Eastern Time)

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

Cost: GSI Members $200; Nonmembers $250

<table>
<thead>
<tr>
<th>Date</th>
<th>GSI No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 22</td>
<td>W-10</td>
<td>Wet (Bioreactor) Landfills for Rapid Degradation of MSW Organics</td>
</tr>
<tr>
<td>April 12</td>
<td>W-11</td>
<td>Lateral and Vertical Expansions Over Old and Existing Landfills</td>
</tr>
<tr>
<td>April 26</td>
<td>W-6</td>
<td>Geosynthetic Applications Used in Heap Leach Mining</td>
</tr>
<tr>
<td>May 10</td>
<td>W-12</td>
<td>Landfill Covers: Past-Present-Emerging</td>
</tr>
<tr>
<td>May 24</td>
<td>W-13</td>
<td>Beneficial Uses of Abandoned and/or Closed Landfills</td>
</tr>
</tbody>
</table>

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 Theresa Loux (tloux@aeroaggregates.com).

DVGI Merchandise Available for Purchase

Coffee mugs ($8) and lapel pins with the DVGI logo ($5) are available for purchase. See Russ Preuss if you are interested in purchasing either of these items.

ASCE/G-I Members:
Read past and present issues of Geo-Strata magazine online at [www.asce.org](http://www.asce.org)
Jim Beideman is a geotechnical engineer and Program Manager in Kleinfelder’s Exton, Pennsylvania office. Jim is originally from Collegeville and a graduate of Perkiomen Valley High School. He has a BS in Geological Engineering from Colorado School of Mines and a MS in Civil (Geotechnical) Engineering from Northeastern University. Jim is married to a physical therapist and has two children. In his free time, Jim enjoys home improvement projects, softball, golf, skiing, and coaching youth sports.

Q & A with Jim:

Q: What got you first interested in the geoworld?
A: I have always loved playing in the dirt, but the first time I thought about a career in geology was at a high school career day. Gil Marshall from Marshall Geoscience gave a presentation on groundwater wells and the spreading of a contamination plume, I was hooked.

Q: What is your favorite thing about your Alma Mater (Colorado School of Mines)?
A: Mines is set at the foothills of the Rocky Mountains which is a great location for the outdoor enthusiast. I got a great education and didn’t feel like I was just another face in the crowd.

We will continue to feature DVGI members in upcoming issues of the Newsletter. Please feel free to contact any of the board members with any general comments or member spotlight suggestions. Board member email addresses can be found on Page 3.
JOB POSTING

TRC Companies, Inc. is an engineering, consulting, and construction management firm that provides integrated services to the Environmental, Energy, Infrastructure, Transportation and Real Estate markets. Our multi-discipline project teams provide turnkey services to help our clients implement complex projects from initial concept to delivery and operation. A broad range of commercial, industrial, and government clients depend on us for customized and complete solutions to their toughest business challenges.

TRC is seeking a Geotechnical Engineer for our Mount Laurel, NJ office. Primary responsibilities will include preparing calculations, reports or sections of reports, and supporting documentation under the supervision of senior technical staff, inspection and logging of site investigation activities, assisting with laboratory testing of soil and rock, and visual classification of soil and rock. Additional responsibilities may include assisting with pile dynamic analysis (PDA), construction vibration monitoring, and quality control testing of earthwork and foundation construction. Applicant’s qualifications should include good oral and written communication skills, the ability to work independently or in a team setting, willingness to travel and an interest in the geo-sciences. AutoCad or Microstation experience is helpful, but not required. Training will be provided for all aspects of the job responsibilities.

The successful candidate will be a member of TRC’s Geotechnical Engineering Group, headquartered in our Mount Laurel, NJ office. The group and consists of a geotechnical engineering division, a full-service drilling division, an ASTM/AASHTO accredited soil mechanics and concrete testing laboratory, a PDA testing and vibration monitoring component, and a commercial construction inspection division, all of whom work together to provide high-quality and cost-effective geotechnical design solutions for a wide range of project applications. Typical projects include industrial processing facilities, airports, mooring structures, municipal wastewater treatment facilities, power generation and transmission projects, low to high-rise residential developments and office complexes, multi-story parking facilities, highways and bridges. Currently, our service area is primarily located within PA, NJ, NY, VA, WV, OH, DE, DC, and MD, and MA.

Qualifications

- BSCE required, MSCE in Geotechnical Engineering a plus.
- Zero (0) to four (4) years of relevant work experience.
- Demonstrated verbal and written communication skills, willingness to travel and ability to work independently and in a team setting are essential.

TRC offers a competitive salary and benefits package. For additional information, or to submit a resume, contact Melissa Gillespie at mgillespie@trcsolutions.com.
EVENTS AND CONFERENCES

SAVE THE DATE FOR GETT 2018

Girl’s Exploring Tomorrow’s Technology (GETT) is a free, fun, informational event for middle and high school girls in grades 5 through 10 and their parents that features successful women in technology. Attendees learn the facts about how technology careers can be fulfilling, fun and rewarding personally, professionally and financially.

DVGI participated in last year’s Expo, with more than 1,000 in attendance (including 833 girls in grades 5-10 and 309 parents and educators). We provided an interactive activity illustrating different types of fill materials. We’re looking forward to participating again in 2018 and welcome volunteers (female volunteers preferred!) and/or ideas for new and interesting hands-on demonstrations.

GETT 2018 is scheduled for March 17, 2018 at Phoenixville High School. For information about registering a parent, student, and/or educator, or to participate in the expo as an exhibitor independent of DVGI, visit www.gettpa.org.

If you’d like to volunteer at GETT 2018 as a representative of DVGI, or have suggestions for demonstrations, please contact Theresa Loux (tloux@aeroaggregates.com).

SAVE THE DATE / SPONSOR

2018 Mid-Atlantic Geo-Wall Competition

Saturday, April 7, 2018
University of Delaware, Newark Campus

We are looking for sponsors and judges!

We are requesting sponsorships of $150 per firm. Company name will be displayed at competition.

Please contact Eric Backlund (ebacklund@kleinfelder.com) for more information.
EVENTS AND CONFERENCES

Save the Dates: Spring Social

May 3, 2018 at Sky Philadelphia
1717 Arch Street
Philadelphia, PA 19103

Please feel free to contact Angelo Waters (215-922-8081, x1273 or ajwaters@urbanengineers.com) for any general questions.

April Multi-Technical Topics Dinner Meeting (1 PDH)

Please join us for our April dinner meeting where we recognize Life Members and Past Presidents. After dinner, we'll have the following breakout sessions:

- **SEI**: Interoperability: BIM and Structural Design Software. Presented by Michael Wagner, PE, DIT (AECOM)
- **Ports and Harbors**: Paulsboro Marine Terminal Wharf Design and Construction Presented by Michael Wagner, PE (Urban Engineers) and Chris Lawrence, PE (CH2M/I Jacobs)
- **DVGI**: Presented Dr. Joseph Coe (Temple University) (Topic TBA)

Questions:
Please feel free to contact Angelo Waters (215-922-8081, x1273 or ajwaters@urbanengineers.com) for any general questions.

**ALL REGISTRATIONS ARE FINAL.** Due to our commitment with our event venues, cancellations or no-shows will be invoiced for the full cost of the event. Registrants are able to transfer their registrations to others without penalty.

**Date/Time:** April 12, 2018; 5:30 Networking; 6:30 Dinner; 7:30 Break-Out Technical Presentations

**Location:** The Inn at Villanova
601 County Line Road
Radnor, PA 19087

**Fees:** Members $50; Govt Employees and Students $20 $50 after RSVP Deadline

**RSVP:** Please RSVP by 5:00pm on Monday, April 9th. RSVP via online reservations. Paypal is available for this event. Please click here to register

---

SEI Presents Villanova Student Night

This year's SEI college night will be held at Villanova. There will be a short student presentation followed by a panel discussion that will allow students to hear information and perspectives that professionals have obtained through their experience in the industry. The panelists have been selected to provide a range of experience levels and perspectives based on their time in the industry and the positions held within their companies.

**Questions:**
Please feel free to contact Jack Cardinal (610.594.2460, x 3046 or jcardinal@pedbridge.com) for any general questions.

**Moderator:** Dwayne Dottin (Jingoli Construction)

**Panelists:**
- Richard Kemper, PE (Gannett Fleming)
- Edward DePaola, PE, SECB, F, SEI (Severud Associates)
- Dennis Mordan, PE, SECB (O’Donnell & Naccarato Structural Engineers)
- Bryan Shaber, PE (Gannett Fleming)
- Jennifer Biegel, PE (Pennoni)
- Christopher Raponi, PE (AECON)
- Jack Cardinal, EIT (RIGG Bridge Engineers)

**Date/Time:** March 20, 2018; 6:00 pm

**Location:** Villanova University, Toltentine Hall - Room 215

**Fees:** General Admission (Professionals) $10 at the Door; Pre-Registered Students $0; Students at the Door $5

**RSVP:** By March 20, 2018 at 5:00 pm www.sei-philly.org
Online Registration
EVENTS AND CONFERENCES

CALL for ABSTRACTS and Conference Preview

Geo-Congress 2019
8th International Conference on Case Histories in Geotechnical Engineering
Philadelphia, Pennsylvania USA | March 24-27, 2019
Case Histories – Capturing the Accomplishments of our Profession

You are invited...
...to submit an abstract to any of the technical tracks listed below.

Submitted abstracts must meet the following requirements:

- Abstracts are expected to be between 100 to 400 words.
- Abstracts can not contain images, tables, or other graphic elements.
- During submission, Authors may select between two paper types to indicate the intended format of their final submission: Technical Paper (6 to 10 pages in length) or Case History Paper (up to 15 pages in length).
- Authors may also choose if they want to submit their paper for a GSP- or GPP-level of review.
- Abstract submissions must include the full names, credentials, affiliations, contact information and email addresses for all authors.

- Submit your abstract to one of the following topics:
  - TOPIC A/ Mega Projects, Design/Build, Public-Private Partnerships, Baseline Reports
  - TOPIC B/ Foundations (Deep and Shallow), Earth Retaining Structures
  - TOPIC C/ Embankments, Dams, Slopes
  - TOPIC D/ Underground Engineering, Ground Improvement, Grouting
  - TOPIC E/ Geotechnical Earthquake Engineering
  - TOPIC F/ Sustainability, Emerging Topics, Risk, Forensics
  - Topic G/ Site Characterization, Geophysics, Soil-Rock Properties, Computational Geotechnics
  - Topic H/ Geosynthetics, Unsaturated Soils and Erosion, Pavement Engineering
  - Topic I/ Geoenvironmental, Engineering Geology, Rock Mechanics
  - Topic J/ Geo-Future, Education, and Outreach

- Abstracts must be submitted via the online CATALYST Submission System:
  https://catalyst.omnipress.com/#/collection/212/submission
Save the Date!
5th Annual DVGI Golf Outing
Benefitting the Scholarship Fund
June 22, 2018

Jeffersonville Golf Club
2400 W. Main Street
Jeffersonville, PA 19403
Tee times starting at 12:30 pm

Registration Details to Follow
EVENTS AND CONFERENCES

GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS V
AUSTIN, TEXAS | JUNE 10–13, 2018

INTERNATIONAL CONFERENCE ON TRANSPORTATION & DEVELOPMENT
PITTSBURGH, PENNSYLVANIA | JULY 15–18, 2018
ASCE’s Flagship Conference in Transportation & Development

DEEP FOUNDATIONS INSTITUTE
43rd Annual Conference
Hilton Anaheim | California | October 24-27, 2018

Geosynthetics Conference
Feb. 10-13, 2019 | Houston, TX USA
Marriott Marquis Houston
GeosyntheticsConference.com
KLEINFELDER
180 Sheree Blvd., Suite 3800
Exton, PA 19341
o 1+610.590.1444
f 1+610.590.2743
kleinfelder.com

James M. Beideman, PE
Project Manager I
jbeideman@kleinfelder.com

TRC
16000 Commerce Parkway
Mount Laurel, NJ 08054
856.273.1224
www.trcsolutions.com

Contact: Melissa Logan Gillespie, PE

- Geotechnical Engineering
- Test Borings
- Material Testing
- Pile Dynamic Analysis & Driveability Studies
- Expert Witness Testimony
- Vibration Monitoring
- Geotechnical Instrumentation
- Construction Phase Inspection & Testing

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

Schnabel ENGINEERING
schnabel-eng.com
West Chester, PA • T 610-696-6066

Subsurface Utility Engineering

master locators
masterlocators.com • 800 495 4248

QUANTUM GEOPHYSICS

Geophysical Consultant to the Engineering, Environmental, and Groundwater Industries

Richard Lee, P.G., R.S., G.P.
Phone (610) 917-9100
rich@quantumgeophysics3.com