GEO-INSTITUTE
Delaware Valley Chapter

DELAWARE VALLEY GEO-INSTITUTE

DVGI – October 2026 Volume 26, Issue 7

Inside this issue:

October 2026 Meeting 1
September 2026 Meeting 2-4
Announcements 5-15
Corporate Sponsors 16-20
Universities 21-22

2026-2027 Board of Directors

Chair
Bob Crawford, P.E.

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

Vice-Chair
Jeremy Brown, P.E.

Treasurer/Announcements
Daniel Marano, P.E.

Secretary/Golf Outing
Lei Gu, P.E.

Newsletter Editor
Joseph Murray, P.E.

Web Advisor
Kayla Nelson, E.I.T.

Corporate Sponsorships
Conrad Cho, P.E.

Director of Scholarship / Academic Liaison
Robert Swan, Jr., Ph.D.

ASCE Liaison
Jim Beideman, P.E.

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

Social Media
Jeff Yates, P.E.

Professional Society Relations
Neil Scafonas, P.E.

October 2026 DVGI Project of the Year Dinner Meeting

SPEAKERS: Matt Lunemann of STV, Inc., Michael Yang of Michael Baker International, Inc., and Sarah McInnes of PennDOT District 6

TOPIC: "Design & Construction of I-95 Wall 3SB Micropile Foundations"

DATE: Tuesday October 20, 2026 – Social Hour 5:30 PM to 6:30 PM; Dinner 6:30 PM to 7:30 PM; Presentation 7:30PM to 8:30PM

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

Cost: $70 General*, $35 Government/Retired*, $10 Student

***Complimentary Drink Ticket Included for Registrants Over 21**

2026 DVGI OCTOBER MEETING ABSTRACT:

The Interstate 95 (I-95) Section BSR project (construction section BS2) involves the reconstruction and widening of I-95 between Margaret and Carver Streets in Philadelphia, PA. As part of this project, Retaining Walls 2SB and 3SB required redesign during construction as a result of updated T-wall height restrictions. The 1,200-foot-long Wall 3SB consisted of a cast-in-place retaining wall up to 33-feet-high. The wall was founded on micropiles with more than half of the micropiles battered to resist lateral loading.

ABOUT THE SPEAKERS:

Matt Lunemann is a Vice President at STV Inc. where he leads their Geotechnical and Tunneling efforts for Pennsylvania and New Jersey. He received his Bachelors and Masters from Rutgers University and served two terms as their alumni president. Matt has served as the geotechnical engineer of record and project manager for numerous projects in Pennsylvania and New Jersey including bridges, roadways, dams, microtunneling, dredging, and coastal protection projects.

Michael Yang is an Associate Vice President and Geotechnical Department Manager at Michael Baker International. He is a registered professional engineer in five states with extensive experience in the transportation industry. Michael received his Bachelors, Masters in China and Ph.D. from University of Tennessee. Dr. Yang is experienced in a wide range of soil and rock conditions in the Northeast region and experienced in geotechnical engineering practice in Bridge, Highway, Transit, and Industrial Facilities.

Sarah McInnes is a Senior Assistant Construction Engineer in PennDOT District 6 serving Bucks, Chester, Delaware, Montgomery, and Philadelphia counties. Prior to holding this position Sarah spent twenty-five years as a Geotechnical Engineer 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 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.

Please register at:

DVGI October 2026 Dinner Meeting

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

September 2026 DVGI Dinner Meeting

Speaker: Jay McKelvey, PE, BC.GE, PhD — Vice President, Earth Engineering, Inc.

Topic: "Design and Construction of a New Roadway Over Soft Soils"



2026 SEPTEMBER MEETING ABSTRACT:

Two retaining walls were proposed for a new roadway alignment through a low-lying wooded area featuring two small streams. The two walls would be aligned parallel to each other, forming the geometry for the new roadway. One of the walls was proposed to be over 188 meters long with a maximum height of over 8 meters, the other 294 meters long with a maximum height of 11 meters. The bearing soils that would need to support the retaining walls were found to have varying thicknesses of saturated soft clays and silty sands that were expected to consolidate as much as 70cm under the roadway stresses. Several options were evaluated for the retaining wall including pile supported load transfer platforms supporting mechanically stabilized earth walls, tie-back supported sheet pile walls, and temporary geogrid supported wire basket walls to provide surcharge to the bearing soils. Cost analyses found the temporary geogrid supported wire basket walls would be the least expensive. This option included installation of wick drains within the bearing soils to accelerate consolidation followed by construction of the two retaining walls. The flexible wire baskets could accommodate any facial distortion associated with consolidation of the bearing soils. The two walls were instrumented with settlement plates and vibrating wire piezometers installed within the bearing soils. Once consolidation was completed, the top of the walls were corrected to account for vertical deformation and then a shotcrete fascia was installed for the permanent fascia. The shotcrete fascia was supported by soil nails installed within the reinforced backfill of the wire basket walls. This presentation will discuss the subsurface investigation and laboratory test results, design considerations, instrumentation and construction for the two walls.

ABOUT THE SPEAKER:

Jay McKelvey is a Vice President and Executive Director of the Geotechnical Design Division at Earth Engineering Incorporated. He is a registered professional engineer in sixteen states and the District of Columbia. Jay is a graduate of Drexel University, receiving his Bachelors, Masters and Ph.D. from there. A Past Chair for DVGI, Jay is the Chair for the Geo-Institute's Earth Retaining Structures Technical Committee, Past Chair of the Local Involvement Committee and serves on the Geo-Institute technical committees for Geosynthetics, and Embankments, Dams and Slopes. A voting member in ASTM committees Soil and Rock (D18), and Geosynthetics (D35), Jay also serves on the Editorial Board for ASTM's Journal of Geotechnical Testing.

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

September 2026 DVGI Dinner Meeting

Photo Gallery







DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

September 2026 DVGI Dinner Meeting

Photo Gallery





DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS: DVGI PROJECT OF THE YEAR 2026

CONGRATULATIONS TO OUR 2026 PROJECT OF THE YEAR AWARD WINNER: MICHAEL BAKER INTERNATIONAL & STV, INC.!

October's dinner meeting will include a presentation on this project, Design & Construction of I-95 Wall 3SB Micropile Foundations.



DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS—SAVE THE DATE FOR THE GETT EXPO 2026

The Girls Exploring Tomorrow's Technology ® (GETT) Expo is an annual event for girls in grades 4-10, along with their parents and educators, to learn more about career opportunities in a broad scope of STEM related industries. The day is filled with exciting and enlightening experiences including hands-on activities lead by successful women in STEM fields. GETT is a free event to all students, however accompanying adults will be charged a fee of $10 to attend, to help offset event costs.

GETT 2026 is taking place at the The Greater Philadelphia Expo Center at Oaks, PA on October 24th from 10am – 2pm. For information about registration, please visit https://gettpa.org.

25TH ANNIVERSARY
GETT℠

Girls Exploring Tomorrow's Technology ®





DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS – STEMFEST – AMERICAN HELICOPTER MUSEUM

DVGI had an amazing time at the American Helicopter Museum and Education Center connecting with families and future engineers through our edible soil profile activity —a hands-on way to explore the layers beneath our feet!

Families and students explored subsurface layers in a creative, interactive way—proving that learning about soil mechanics can be both educational and fun.

Huge shoutout to our 9 incredible DVGI volunteers who made this experience possible: Kayla Nelson, EIT, Marissa Ciocco, Juan Felipe Hernandez, EI, Candace Hickey, Lei Gu, PE, PMP, ENV SP, Robert Crawford, John Healy, Angela Saade, EIT, and Theresa Andrejack Loux, Ph.D., P.E., ENV SP

We were also inspired by the "Meet a Pilot" panel featuring women in aviation—such an empowering addition to an already fantastic event!

Thanks to everyone who joined us—we can't wait for the next one!



DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS – ASCE PHILADELPHIA GEOTECHNICAL ENGINEER OF THE YEAR

The ASCE Philadelphia Section Geotechnical Engineer of the Year Award is presented to an individual who is judged to have contributed substantially to the civil engineering profession in the specialty area of geotechnical engineering. The nominees to be considered for the award are typically a section/division lead, project manager, senior/supervisory engineer or similar level of responsibility with 10-15 years of experience minimum and with significant project direction/contributions. Registration as a Professional Engineer (PE) is preferred. Similar professional certifications (PMP) and ASCE Institute or similar specialty certifications/recognitions may be considered in placed of a PE on an individual basis. Nominees must be a dues-paying member of the ASCE Philadelphia Section.

DVGI submits a nomination to the ASCE Philadelphia Section for consideration on behalf of one individual each year.

Interested candidates must submit a short bio and resume to Jeremy Brown (jbrown@schnabel-eng.com) by no later than December 31, 2026 for consideration.



GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS

80 YEARS McCORMICK TAYLOR

Scan to learn more and apply today!

We're HIRING

10-25 hours per week

Part-time Geotechnical Engineer

Location & Work Arrangement
Remote candidates will be considered, with preference given to Pennsylvania-based applicants. Candidates located in other states are encouraged to apply if they hold a Pennsylvania Professional Engineer (PE) license and have experience working with PennDOT. This position is **primarily remote**, with occasional travel anticipated approximately four times per year.

Flexible Schedule
We believe great work can happen on a schedule that works for you. This role offers significant flexibility in working hours, allowing you to structure your workday around your personal and professional commitments while meeting project and client needs.

What You'll Do:

- Prepare and review Subsurface Exploration Planning Submissions
- Develop Structure Foundation Reports for deep and shallow foundations
- Prepare Geotechnical Engineering Reports (GER/RSGER)
- Review PennDOT district submissions for DM-4 and AASHTO LRFD compliance
- Design Earth Retaining Systems and temporary shoring/sheetpile systems
- Run geotechnical analyses using LPILE, PCSTABL, ABLRFD, or similar software
- Coordinate boring and testing programs with drilling subcontractors

What You Bring:

- 10+ years of geotechnical engineering experience on PennDOT projects
- Strong background in PennDOT geotechnical reviews and subsurface investigations
- Proficiency with LPILE, PCSTABL, ABLRFD, or similar geotechnical software
- Active PA PE license (or an active out-of-state PE, eligible to obtain PA licensure)
- Sharp communication skills and a collaborative, detail-oriented mindset

Why McCormick Taylor? Join a family-owned company that's been putting employees, clients, and communities first since 1946, while enjoying a flexible schedule that fits your life and the opportunity to work on meaningful projects. As a Best Place to Work in Pennsylvania and New Jersey, we offer room to grow, including the potential for this role to expand into a full-time opportunity if it's the right fit for everyone.

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS



GRL Engineers, Inc.

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

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS



DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS

Upcoming Dates for 2026-27 Dinner Meetings, Webinars and Events are as follows:

10/20/2026 – Tuesday – Matt Lunemann, PE — "2026 DVGI Geotechnical Project of the Year, I-95 Section BS2 Retaining Walls"

10/24/2026 – Saturday – GETT Expo 2026

11/17/2026 – Tuesday – John Peirce, Jr., PE, BC.GE – "I-95-CP3 Box Sewer & Ramp F SOE"

01/19/2027 – Tuesday – Ricardo Fernos-Jones, PE – "North Millsboro Bypass 113 to SR 24 / US 113 at SR 20 Grade Separated Intersection"

02/2027 – TBD – TBA – Lunchtime Ethics Webinar – "AI and Engineering"

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 DVGI.ORG!



DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS

2026-2027 Board of Directors



Chair
Bob Crawford, P.E.

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

Vice-Chair
Jeremy Brown, P.E.

Treasurer/Announcements
Daniel Marano, P.E.

Secretary/Golf Outing
Lei Gu, P.E.

Newsletter Editor
Joseph Murray, P.E.

Web Advisor
Kayla Nelson, E.I.T.

Corporate Sponsorships
Conrad Cho, P.E.

Director of Scholarship / Academic Liaison
Robert Swan, Jr., Ph.D.

ASCE Liaison
Jim Beideman, P.E.

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

Social Media
Jeff Yates, P.E.

At-Large Member
Neil Scafonas, P.E.

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

ANNOUNCEMENTS

GRI GEI GII GSI GAI GCI
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

ALL WEBINARS WILL BE RECORDED AND CAN BE PURCHSED FOR VIEWING AT YOUR CONVENIECE

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

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

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



DVGI October 2026
Volume 26, Issue 7

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 Joseph Murray (joseph.murray@gza.com).

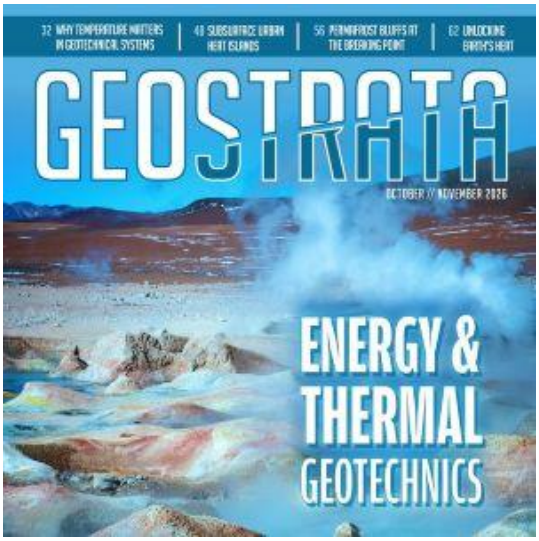
Geo-Institute

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 34 of Season 7, our guest is Shahbaz Ahmad of Kiewit, the current Chair of the G-I Colorado Chapter!

https://gi-directorscut.asce.org/e/s07-e34-shahbaz-ahmad-kiewit-g-i-colorado-chapter/associates/

ASCE/G-I Members:
Read past and present issues of Geo-Strata magazine online at

https://www.geoinstitute.org/publications/geostrata

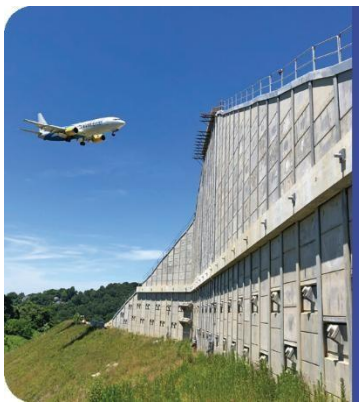


GEO-INSTITUTE
Delaware Valley Chapter

DVGI CORPORATE SPONSORS

GFT

AERO AGGREGATES
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
Schnabel ENGINEERING

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

EARTH ENGINEERING INCORPORATED
Geotechnical Engineers & Geologists
Full-Service Locations
West Berlin, NJ 856-768-1001
Mechanicsburg, PA 717-697-5701
Emmaus, PA 610-967-4540
SHORING & UNDERPINNING DESIGN
RETAINING WALL DESIGN
CONSTRUCTION MONITORING AND SOILS LABORATORY
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

INOVA GEOSYNTHETICS
INNOVATIVE GEOSYNTHETIC SOLUTIONS AND APPLICATIONS
High Strength Reinforcement
Drainage
Lightweight Fill
Recycled Materials
Sediment Capping
Remediation
Geosynthetic Lining Systems
Sustainable Solutions

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

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

DVGI CORPORATE SPONSORS

KLEINFELDER
Bright People. Right Solutions.

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

LANGAN

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

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

KELLER
The leading geotechnical specialty contractor

Mark Careyva, PE
Branch Manager
610-353-0600 • mcareyva@keller-na.com

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

www.keller-na.com

GZA
Known for excellence.
Built on trust.

American Geotechnical &
Environmental Services, Inc.

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

GEI Consultants

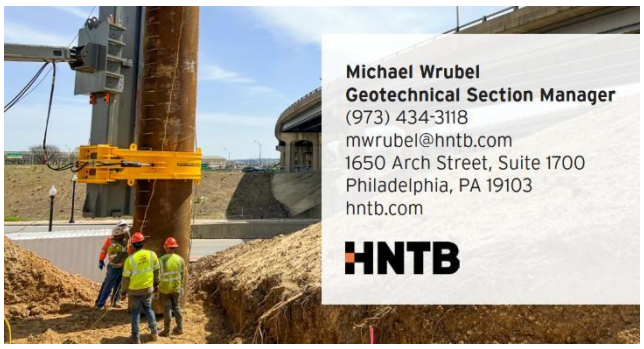
ConeTec

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
a TERRATEST Company
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

RIMKUS







DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

DVGI CORPORATE SPONSORS

Low-Density Cellular Concrete
Permeable / Non-Permeable
- Soft Soil Remediation
- Slope Stabilization
- Bridge Approach
- Utility Protection
- Annular Fill

Aerix Industries®
Advanced Engineered Foam Solutions

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

...For Trusted Quality and Service

Colliers Engineering & Design
Customized Solutions
Delaware Valley Locations
Philadelphia | Exton | Lehigh Valley
Conshohocken | Mt. Laurel
610 868 4201 | colliersengineering.com
Accelerating success.



AECOM

CGS
COMPACTION GROUTING SERVICES, INC



Michael Baker
INTERNATIONAL

Lei Gu, PE, PMP, ENV SP
SENIOR ASSOCIATE
TECHNICAL MANAGER - GEOTECHNICAL ENGINEERING

300 American Metro Blvd, Suite 154, Hamilton, NJ 08619
o: 609-438-6549
Lei.Gu@mbakerintl.com

GRL engineers, inc.
Dynamic Measurements and Analyses
www.grlengineers.com

H&K
EST. 1968
EOE Including Disability & Vet

DVGI October 2026
Volume 26, Issue 7

GEO-INSTITUTE
Delaware Valley Chapter

DVGI CORPORATE SPONSORS

HDR

HNTB

SUBSURFACE CONSTRUCTORS INCORPORATED

verdantas

ECS

MRCE
built on firm foundations

GEO-INSTITUTE
Delaware Valley Chapter

LOCAL UNIVERSITIES

Yichuan (Ethan) Zhu
COLLEGE OF ENGINEERING
Civil and Environmental Engineering
Assistant Professor
College of Engineering



EMAIL
yichuan.zhu@temple.edu

OFFICE LOCATION
1947 N. 12th St., Room 524

DEPARTMENT
215-204-3520



Penn
Master of Science in Applied Geosciences

WHERE THEORY MEETS PRACTICE.

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

WWW.UPENN.EDU/MSAG

LEHIGH UNIVERSITY.

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

Rowan University

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

GEO-INSTITUTE
Delaware Valley Chapter

LOCAL UNIVERSITIES

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

UNIVERSITY OF DELAWARE
Department of Civil & Environmental Engineering

Christopher L. Meehan, Ph.D., P.E., F.ASCE
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