

DELAWARE VALLEY GEO-INSTITUTE

DVGI February 2024

Volume 24 Issue 2

Inside this issue:

February 2024	/
January 2024	2
Announcements	3-9
Corporate Sponsors10	-12
Universities	13

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February 2024 DVGI-SEI Joint Dinner Meeting

SPEAKER: Sebastian Lobo-Guerrero, PhD, PE, D.GE., Geotechnical

Project Manager/Laboratory Manager AGES Inc.,

Pittsburgh, PA

TOPIC: Geotechnical Aspects of Pittsburgh SEA-CAP

DATE: Tuesday February 20, 2024 – 5:00 PM to 8:00 PM EST

WHERE: Crowne Plaza Philadelphia - King of Prussia 260 Mall Boulevard King of Prussia, PA 19406

COST: \$70 Standard, \$50 Government/Retired, \$50 Students

February 2024 DVGI-SEI Joint Dinner Meeting

MEETING ABSTRACT:

The I-579 Urban Open Space Cap Project, a new, three acre green space, reconnected Pittsburgh's historic Hill District with the city's downtown business and cultural center. This first-of-its-kind project sought to remedy historical development that harmed the Hill District by reconnecting this neighborhood through a unique land bridge spanning over the interstate. The foundations for this bridge consisted of 42 drilled shafts at the piers, and 220 micropiles (tension and compression) at the abutments. The presentation covers the design, construction, and testing of these elements and the lessons learned in the project. The \$30 million Cap project has received 15 national awards, including the prestigious AASHTO and ASHE National Project of the Year Awards.

ABOUT THE SPEAKER:

Dr. Sebastian has 22 years of experience in Geotechnical Engineering, specializing in the design of deep/shallow foundations, earth retaining structures, and landslide stabilization. He has authored over 150 technical papers and presentations published in scientific journals, geotechnical magazines, and conference proceedings worldwide. He is the former Chair of the Pittsburgh ASCE Geo-Institute, a member of the DFI Anchored Earth Retention Committee, and Conference Chair for DFI-45 2020 and DFI-47 National Harbor MD 2022. Sebastian is on the Board of Trustees of the Academy of Geo-Professionals ASCE. His distinguished awards include: 2022 DFI President's Award, 2021 ASCE Lifetime Achievement, and 2020 ASCE Civil Engineer of the Year - Pittsburgh Section.

Please register with QR code by February 13, 2024:





January DVGI Dinner Meeting 2024

Speaker: Dr. Kimberly Martin, PhD, P.E. of Keller - North America

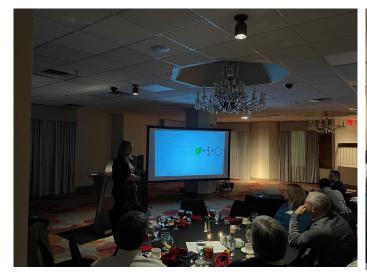
Topic: Advancing Sustainability in the Geotechnical Industry

MEETING ABSTRACT:

Although the term "sustainability" is becoming more widespread, it can be challenging to know what tangible things we can do as geotechnical engineers and contractors to further sustainable development goals. This talk aims to advance our understanding by providing a brief background on sustainability, demonstrating how geotechnical engineers and contractors can significantly impact environmental sustainability, particularly through the use of the EFFC/DFI Carbon Calculator, and offering ideas and insights to push our industry forward on social sustainability.

ABOUT THE SPEAKER:

Dr. Kimberly Martin executes Keller's sustainability strategy across North America. Her responsibilities include driving innovation initiatives to advance Keller's carbon reduction targets, as well as developing and advising on Keller's internal and external social initiatives. Kimberly was previously a lead geotechnical engineer in the oil and gas industry, contributing her expertise to development projects worldwide. In addition to her professional role, Kimberly is actively engaged in industry groups. She previously served as the chair of the Arizona Geo-Institute chapter and is the secretary for the Geo-Institute's Sustainability in Geotechnical Engineering Committee. Her involvement extends to the DFI's sustainability committee, where she co-chairs the EFFC -DFI Sustainability Guides Task Group. Kimberly is also a member of the editorial panel for Engineering Sustainability, a journal published by the Institute of Civil Engineers. Her scholarly contributions include publishing more than ten peer-reviewed journal and conference papers. Kimberly holds a Bachelor of Science in Civil Engineering from the University of Arizona, a Master of Science from The University of Texas at Austin, and a Doctorate from Arizona State University, where she was an active member o the Center for Bio-mediated and Bio-inspired Geotechnics.











2024

DELAWARE VALLEY ENGINEERS WEEK FEBRUARY 15-24, 2024

PLEASE JOIN US FOR THIS YEAR'S CELEBRATION AND EVENTS

2024 DELAWARE VALLEY ENGINEER OF THE YEAR Robert M. Wright, PE

Bob Wright serves as a Project Manager at Bowman (formerly McMahon Associates), where he handles transportation and traffic engineering

duties and projects for various public and private clients as well as assistance with business development. He has been with the firm for the past six years, part of a career spanning 44 years of service in both government and private sector positions. The bulk of Bob's professional employment was with the City of Philadelphia Department of Streets, where he started as an entry-level engineer after his college graduation and rose through the ranks during his 27 years with the Department's Engineering/Survey and Design Division, culminating in his appointment as Chief Engineer and Surveyor, the Division's head, in 2005.

Bob obtained his Bachelor of Science degree in Civil and Urban Engineering from the University of Pennsylvania in 1979. He is a registered Professional Engineer in four states. He has held positions at the City of Philadelphia and three local consulting firms over the course of his career and has worked on various transportation and engineering projects mainly in the Philadelphia area in addition to several in New York City. During his time with the City he was involved in numerous major PennDOT projects including the completion of I-95 in the vicinity of Philadelphia International Airport, the I-95 Center City Ramp Access program, and construction of the I-676 Vine Street Expressway across Center City. He managed over 60 City-sponsored projects as well with a combined construction value of over \$130 million.

Professional society activity and service has always been important to Bob. He is a Fellow in the American Society of Civil Engineers (ASCE) and has held several positions, including Section President, in the Philadelphia Section. He is also a Senior Member, Past President and Section Executive of the Delaware Valley Section of the American Society of Highway Engineers (ASHE). He is a Past President and member of the Engineers' Club of Philadelphia and has been a Chair and member of the Club's Engineers Week Committee for many years. He additionally holds memberships in the Institute of Transportation Engineers (ITE), where he is a Fellow, the American Public Works Association (APWA), and the Women's Transportation Seminar (WTS). He has served in teaching positions with the Community College of Philadelphia through its educational outreach program with the City of Philadelphia, Urban Engineers' Training Institute and McMahon's "University' Program, as well as serving as guest lecturer and student project advisor at the University of Pennsylvania.

Bob's contributions to the local civil engineering community have been recognized with awards from ASCE and ASHE over the past several years. Most recently he was cited as the ASHE Delaware Valley Member of the Year (2023), the first time this award was offered. He is a Philadelphia native and a product of the Philadelphia Archdiocesan school system. He believes he has had the good fortune to be part of the local engineering community on both the public and private sides, thus allowing him to see things from two often-different perspectives, and has enjoyed and taken advantage of the opportunities he has had to "give back" to the profession and help recruit young people to consider engineering careers. He notes that his recognition as Engineer of the Year represents the combined contributions and hard work of the many who have helped him earn it.

Sam Winterburn was fortunate to have encouragement from an early age to study STEM subjects. Combining

2024 DELAWARE VALLEY YOUNG ENGINEER OF THE YEAR Samantha J. Winterburn

her love of science with her concerns for ensuring access to a technical education, she has used her role as a professional leader to build support from the student level to introductory career level. Enrolling at Rowan University, she obtained her Bachelor of Science in Chemical Engineering and focused on the key role of chemical engineering sustainability. As part of her engineering clinic, she was an active team member of the Think Like a Girl Engineering Kits start-up company that was devoted to empowering young girls to pursue STEM through activities, crafts, real world women engineer role models, and stories that make engineering attainable and fun.

Sam started her professional career in Philadelphia at INOLEX Inc. as a Process Development Engineer in 2016, where she began to develop opportunities working with R&D and production teams through helping to adopt the Principles of Green Chemistry and life cycle thinking. She advanced to a Technical Buyer position and later to Contract Manufacturing

Manager, and now leads the operational and procurement efforts in the firm's sustainability initiatives. Her management efforts include working within the international regulatory environment. She has been recognized for her performance as a two-time INOLEX Award winner, receiving the firm's Core Value Award, "True to Our Word" (2021) and the Innovation Award (2022).

Sam is passionate about developing our next generation of engineers. She has participated in an internship and co-op program at INOLEX in which engineering students complement their studies with a structured exposure to significant and meaningful in-plant experience. In addition to her work duties, she serves as the Chair and Board Member of Rowan University's Chemical Engineering Industrial Advisory Board (IAB), where she provides guidance to the undergraduate and graduate programs and curricula. She is an active member of multiple technical organizations such as the American Institute of Chemical Engineers (AIChE), the Society of Women Engineers, the Institute for Sustainability, and the Engineers' Club of Philadelphia. Locally, she has been deeply involved with AIChE's Delaware Valley Section, where she has held numerous executive positions, recently serving as the local section chair.

For her exemplary performance advancing the Chemical Engineering profession, the AIChE Delaware Valley Section recognized Sam as its 2023 Young Chemical Engineer of the Year. She supports programs to measure the health of local sections and enhance strategies to grow membership



For event registration, payment can be made electronically as part of the registration process or separately by check.

Please make checks payable to Engineers' Club of Philadelphia.

Checks can be brought to the events or mailed in advance. Mail should be directed to

Engineers' Club of Philadelphia 1735 Market Street Suite A #113 Philadelphia, PA 19103-7502

If you have any questions on this or require additional information, please contact us through the Contact Us tab at our website, www.engrclub.org.

Please visit www.engrclub.org and select the DVEW tab for more Information on award recipients and events.

Please keep in mind that certain levels of contributions to Engineers Week include admission for the Opening Ceremony. Sponsors will be sent a promo code to register their allowed complimentary tickets to the events.

More information is provided on the Engineers Week Sponsorship brochure, available at www.engrclub.org. Contributions to Engineers Week are accepted, encouraged and certainly appreciated, and may be tax-deductible (the Philadelphia Engineering Foundation is a 501(c)3 organization).

Please be sure to review the special Philadelphia Business Journal's Engineers Week Supplement, which will be available through the Engineers' Club website as well as at the tables at the Opening Ceremony.

Engineers Week Opening Ceremony

Thursday, February 15

Hilton Philadelphia City Avenue 4200 City Avenue 5:00 PM Networking, Awards and Affiliates Showcase 6:00 PM Dinner Program and Awards Following Dinner

2024 Engineers Week in the Delaware Valley kicks off with the Opening Ceremony, with networking, dinner and formalities at a new location this year, the Hilton Philadelphia City Avenue.

Formal festivities will begin with networking and cocktails (cash bar) at 5:00 PM. Recipients of various Engineers Week awards and scholarships, along with sponsoring affiliate societies, will be on hand with display boards during the networking session to showcase their honors and groups.

Our 2024 Delaware Valley Engineer of the Year, Bob Wright, will be formally introduced at the Opening Ceremony. Mr. Wright and our 2024 Delaware Valley Young Engineer of the Year, Sam Winterburn, will make brief remarks and kick off the celebration of Engineers Week in the Delaware Valley.

We will additionally cite other recipients of Engineers Week honors:

- Engineers Week Scholarships
- Outstanding High School Students
- Delaware Valley Science Fairs Award winners
- Outstanding High School Teachers Award recipients

The winning team from this year's local Future City Competition is anticipated to be on hand with its model of its city of the future.

Individual and project award recipients honored in the past year by the various engineering and technical societies and affiliates in the Delaware Valley will be included in the event PowerPoint and program.

Price - \$90 for reservations received on or before February 9 (\$70 for government agency employees and students). Prices will increase for reservations after February 9.

Reserved tables of 10 are available. When reserving a table, please include the name of each attendee. Please advise of any dietary restrictions or needs.

Reservations can be made at www.engrclub.org/registerDVEW. Promo codes will be provided for those eligible for complimentary dinners,

Young Engineers Social

Tuesday, February 20

Yards Brewing Company 500 Spring Garden Street 6:00 PM to 9:00 PM

This event is geared specifically to young engineers (both in age and at heart) to socialize, catch up, network, and enjoy finger foods and drinks in an informal setting.

As part of the evening's festivities, Sam Winterburn, our 2024 Delaware Valley Young Engineer of the Year, will be recognized and make brief remarks.

The event will feature hors d'oeuvres and an open bar.

Price - \$45 for reservations received on or before February 9 (\$30 for government agency employees and students). Prices will increase for reservations after February 9. Reservations can be made at www.engrelub.org/YES2024. Promo codes will be provided for those eligible for complimentary tickets,



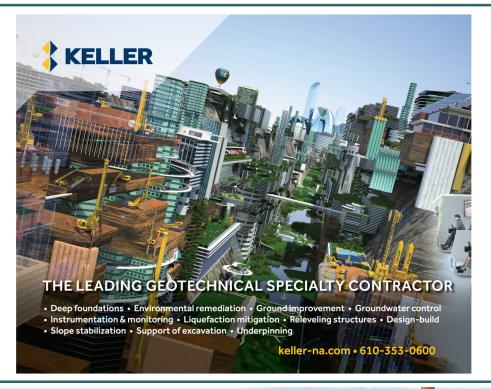
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GSI RECORDED WEBINARS

- 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 PURCHSED FOR VIEWING AT YOUR CONVENIECE

GSI/GMA Members \$200.00 USD per each Webinar

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



Upcoming Dates for 2023-24 Dinner Meetings and events are as follows:

02/20/2204 - Tuesday - Sebastian Lobo-Guerrero, PhD, PE, D.GE.,

Joint Meeting with SEI

03/12/2024 - Thursday - Student Night - Villanova

03/20/2024 - Lunch Webinar : John Nawn "Ethics and the Expert Witness"

04/11/2024 - Tuesday: Dave Sandstrom "NSPE Presenting on Ethics and the Expert Witness"

05/21/2024 - Tuesday - Gardiner Lecture : To Be Announced

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.

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



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).

DVGI PROJECT OF THE YEAR

5th Annual DVGI Geotechnical Project of the Year Competition Submissions to be accepted through March 31, 2024 Project of the Year to be announced in May 2024 Projects to be featured in DVGI Newsletters!

Please direct all submission materials and questions to Bob Crawford (bobc@jjaconstruction.com). Application can be found at the DVGI Homepage at http://www.dvgi.org/GPOY.html



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