October 2016 Dinner Meeting

SPEAKER: Craig H. Olson, P.E. — TRC Engineers, Inc.

TOPIC: Case Studies of Pile Damage Assessment & Hammer Performance Using the Pile Dynamic Analyzer (PDA)

DATE: Tuesday, October 18th, 2016

LOCATION: Valley Forge Casino Resort Hotel, Parkview Ballroom
1160 First Avenue, King of Prussia, PA 19406

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

***Registration and Payment Online at http://www.dvgi.org/ ***

Mr. Olson will provide a brief overview of PDA testing theory and present several case studies and of driven pile foundations that were evaluated using Pile Dynamic Analysis testing. The case studies will highlight the benefits of using PDA testing to evaluate pile integrity, hammer performance, and pile capacity. Photos of extracted piles will be presented to illustrate the condition of the driven piles as well as correlation between the PDA test results and actual pile damage.

ABOUT THE SPEAKER:

Mr. Craig H. Olson, PE is a degreed professional who offers demonstrated experience in the performance of Pile Dynamic Analysis (PDA) testing (using the Pile Dynamic Analyzer – PAK, PAX, PDA 8G models), along with the completion of such related testing services as vibration and sound monitoring (using the Instantel Mini Mate Plus seismographs) for public- and private-sector construction projects throughout the Mid-Atlantic region. He has also designed, developed and tested various aerospace subsystems for vibration and acoustic response over the past 28 years. During his early technical career, he was given increasingly more responsible roles as a test engineer and test conductor at domestic and international aerospace test facilities with General Electric and Lockheed Martin. He has also served in a project management role for mechanical systems design, as well as the testing of construction and aerospace projects.

One Professional Development Hour (PDH) will be provided for this dinner meeting.
Mr. Miluski’s presentation discussed the mechanics and different uses of compaction grout. The presentation included a definition of compaction grout and what is considered the industry standard in accordance with ASCE’s Compaction Grouting Consensus Guide. Michael touched on the important aspects of specifying, reviewing, and monitoring compaction grouting projects. Specification preparation topics included grout refusal, criteria, mix design, estimating quantities, and utilizing different pricing schemes. Key points of field observation included calibrating the pump strokes, determining pump rate, pump rate versus injection pressure, and tracking quantities. The presentation also featured several case histories.

ABOUT THE SPEAKER:

Michael is a professional engineer with a BS and MS in Civil Engineering from Widener University. While completing his master’s program Michael developed, performed, and analyzed a full scale research program evaluating the effectiveness of differing means and methods of compaction grouting in Karst. Post-graduation, Michael worked for Schnabel Engineering Services for about 10 years developing his expertise in geotechnical engineering with a focus on difficult foundation support and karst related problems. Michael later changed career paths from consulting engineering to specialty geotechnical contracting by opening and operating the Mid-Atlantic office for Denver Grouting Services. He then branched out and started Compaction Grouting Services in 1998 after Denver Grouting was purchased by another specialty geotechnical contractor. Michael continues to apply this broad geotechnical engineering and specialty contracting background to provide value engineering solutions for potential clients. Under Michael’s direction, Compaction Grouting Services has enjoyed 18 years of successful operation and continued growth with a strong reputation as a premier compaction grouting contractor in the Northeast/East Coast service area. Michael is a respected member in the grouting community who presents annually at The University of Texas at Austin’s Fundamentals of Grouting Short Course and biennially at The Sinkhole Conference sponsored by the National Cave and Karst Research Institute. In addition to being a member of ASCE, ICOG, DFI and the Geo-Institute, Michael also serves on the Compaction Grouting Consensus Guide Committee and is currently collaborating with other industry leaders in updating this publication.
ANNOUNCEMENTS

Earn PDHs at 2016-2017 DVGI Events

Upcoming Dates for 2016 Dinner Meetings and events are as follows:

- **October 18th**: Craig H. Olson, P.E., TRC Solutions—“Case Studies of Pile Damage Assessment & Hammer Performance Using the Pile Dynamic Analyzer (PDA)”
- **November 15th**: TBD
- **January 17th**: TBD
- **February 21st**: TBD

*One PDH will be awarded for most dinner meetings that you attend.*

*If you are interested in presenting at one our monthly meetings, please get in touch with a DVGI board member.*

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TRC is seeking a qualified Project Manager / Senior Geotechnical Engineer for our Mount Laurel, NJ office. TRC’s Geotechnical Engineering Group 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, 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, bridges, schools and churches. Our service area is primarily located within PA, NJ, NY, VA, WV, OH, DE, DC, and MD.

The responsibilities associated with this position include participating in project pursuits and serving in a project management and/or lead technical role for geotechnical projects. Typical tasks will include proposal preparation, the planning, analysis, design, reporting, and preparation of specifications for geotechnical projects, and mentoring of junior technical staff. Specialized experience with regard to site investigation programs, design and in-situ testing of deep foundations, soil and rock slope stability evaluations, design of retaining walls and reinforced soil slopes, and settlement evaluation and mitigation measures is required.

Qualifications

- BSCE required, MSCE in Geotechnical Engineering preferred.
- PE license.
- DOT and/or Turnpike Authority experience a plus.
- 5 to 10+ years geotechnical engineering experience required.
- Demonstrated leadership skills, communication skills, and ability to work with various technical disciplines in a team setting are essential.

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EOE Minorities/Females/Protected Veterans/Disabled
EVENTS AND CONFERENCES

SEI: The New Crum Creek Viaduct - (1 PDH)

The presentation by Mr. Slattery (SEPTA) will focus on an overview of the old Crum Creek Viaduct, the motivation for replacement, the design/build team selection process, and oversight of the design and construction by the Walsh/FIGG team.

The presentation by Mr. Kucz (FIGG) will focus on key components of the new Crum Creek Viaduct including the substructure design, superstructure design, the lateral slide, design constraints imposed by the accelerated bridge approach, and conclusions/lessons learned.

SPEAKERS: Richard Slattery, P.E (SEPTA);
Dan Kucz, P.E., S.E. (FIGG)

LOCATION: SEPTA, 1234 Market Street
Philadelphia, PA 19107

DATE: Thursday, October 27, 2016

TIME: 5:30-8:30 PM

COST: Members $45, Non-members $50,
RSVP: http://www.sei-philly.org/

Upcoming ASCE Section Dinner Meeting
(Save The Date)

The topic for the November dinner meeting is "30th Street Master Plan" and will take place on Thursday, November 10, 2016 and will be located at Maggiano's in Center City, Philadelphia.

Central Pennsylvania Geotechnical Conference

Hershey, Pennsylvania January 25, 26, & 27, 2017

http://www.central-pa-asce-geotech.org/

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