

PDCA E-Letter
April 2018

IFCEE 2018 A Big Success

When I say “Big Success” I mean BIG in many ways. IFCEE 2018 was attended by more than 3,000 individuals. The indoor exhibit hall and outdoor equipment expo were sold out and the attendance at short courses – specifically those dealing with driven piles – were at capacity.

The 2018 International Foundation Congress and Equipment Expo (IFCEE) concluded on March 10 in Orlando, Fla. The PDCA was proud to have been a Partner on the Organizing Committee, which was established to organize, manage and present this joint geotechnical and foundation engineering and construction conference. Conference participant’s comments, both during and after the show were very positive with many indicating the need and importance of this kind of conference that brings the engineering and construction industry professionals together at one time, under the roof of one event. The positive comment received validates not only the need for this type of industry conference, but is also an endorsement of the overall quality of IFCEE.

IFCEE included some very special industry lectures, including the PDCA inaugural E.A.L. Smith Lecture. The PDCA is very proud to have selected Bengt Fellenius, Dr.Tech, P.E. as the first recipient of this prestigious PDCA award. Dr. Fellenius’ presentation was titled, “Dynamic Testing Analysis – A Retrospective”. Dr. Fellenius took the audience, which filled the Hilton’s Grand Ballroom, from early pioneering studies in static and dynamic testing through 60 years of dynamic testing progression, refinement and ultimately as an indispensable practice of piled foundation design.



Bengt Fellenius, E.A.L. Smith Lecture Award



PDCA Board of Directors



IFCEE Opening Reception



Debbie Schmidt, Stevan Hall, Marian McMillin, Mary Keller

Of course, IFCEE would not be this well received, special event it is without the outdoor equipment expo and indoor exhibit hall. IFCEE attendees were able to experience both, which brought them face-to-face and hands-on with the latest in equipment, materials, manufacturing and services found in the foundation industry today.

The PDCA expects to participate as a Partner on the Organizing Committee for IFCEE 2021. The PDCA is excited about what we, as a pile driving association can do during the next IFCEE to promote our members, products, and solutions for the driven pile industry.

PDCA to Present the 19th Annual DICEP Conference

The PDCA is now focused on the 19th Annual Design and Installation of Cost-Efficient Piles (DICEP) conference. DICEP 2018 will be held at the Hyatt Regency Baltimore Inner Harbor, in Baltimore, MD on Wednesday and Thursday, September 19-20.



The theme of this year's DICEP conference is ***"Benefits of Driven Pile in Infrastructure: An Engineer's Perspective,"*** which coincides with the PDCA's strategic plan regarding awareness of the need to rebuild North America's infrastructure.

The conference will consist of industry keynote presentations, industry case histories and other technical presentations, each addressing the conference theme and providing an opportunity to share experiences, learn from each other and advance the pile driving profession. Individuals or companies interested on proposing a presentation should contact the PDCA office at 904-215-4771 or email the PDCA Director of Events and Meetings, Debbie Schmidt, debbie@piledrivers.org. All proposed presentations will be considered by the PDCA Education Committee.

The conference will also feature an exhibit area specifically designed for networking, socializing and exposure to companies exhibiting their products, services, tools and techniques, and capabilities. Exhibitor and sponsorship opportunities are available now. Conference registration and hotel room reservations will be opening soon.

Watch the DICEP website, www.pdca-dicep.com for more detailed conference and registration information as it becomes available.

[Deep Foundations Dynamic Testing and Analysis – Orlando SOLD OUT, Calgary Registration Open](#)

The Orlando DFDTA program is sold out once again. However, you can still [register for the program in Calgary](#).



The Calgary program will be held at the Four Points by Sheraton Calgary Airport, Calgary, Alberta, Canada. A special room rate of \$139 CAD per night is available up to the [cut-off date of April 16, 2018](#). To make room reservations, call the Sheraton at 403-648-3180. Additional information or program support can be obtained by calling the PDCA office at 1-888-311-PDCA (7322), or 904-215-4771.

The one-day seminar will be on *Deep Foundation Integrity Testing and Wave Equation Analysis* and the two-day workshop will be on *High Strain Dynamic Foundation Testing*. PDCA will also offer the Dynamic Measurement and Analysis Proficiency Test, a 90-minute, multiple-choice exam that will cover the theory of wave mechanics, case method (PDA) equations, data quality assessment, data interpretation and basic CAPWAP analysis.

One-day seminar

The one-day seminar is designed for geotechnical, structural and construction engineers, owners, contractors and other professionals involved in the design, construction and specification of deep foundations. This seminar is suitable for those new to the field of foundation testing and analysis, and includes an overview of non-destructive testing methods (integrity and load testing) and their applications. It is suitable also for those specifying the testing in order to gain a basic understanding for assessing the results presented in the test reports – and for those needing an understanding of wave equation analysis methods.

Those attending the two-day workshop that follows this seminar are strongly encouraged to attend this

review of wave equation background materials.

The learning objectives of the seminar are to have the participants able to select an appropriate method of integrity assessment of deep foundations for a particular application, review reports of integrity and dynamic load testing of deep foundations conducted by others and run a basic wave equation analysis of pile driving.

Two-day workshop

The two-day workshop is designed for users of the Pile Driving Analyzer® (PDA) system and CAPWAP® software who are interested in sharpening their skills: engineers, foundation testing professionals, students and professors already familiar with the basic concepts of deep foundation dynamic testing and analysis; professionals who desire to have a basic understanding of the dynamic test results being presented to them; and those interested in taking the Dynamic Measurement and Analysis Proficiency Test.

The learning objectives of the workshop are to have the participants operate the PDA in a manner conducive to acquiring good quality data; assess pile bearing capacity, pile driving stresses, hammer performance and pile integrity by various methods; avoid pitfalls when analyzing PDA data with the CAPWAP software; interpret PDA testing and CAPWAP software results; describe the soil-model used in CAPWAP; prepare the input for CAPWAP; review options for CAPWAP analysis and output; and calculate bearing capacity and its distribution for driven piles from impact records.

Digital/hard copy of the presentation

All training material will be available digitally for download prior to the event. It is suggested that attendees download this material and bring it with them, or print the training material and bring their own hard copy.

A colored, three-slide-per-page printout may be requested from PDCA up to two weeks prior to the seminar (\$100 charge will apply). Please contact PDCA at debbie@piledrivers.org if you want PDCA to provide the hard copy.

Attendees are encouraged to use their own laptops for the GRLWEAP and CAPWAP® sessions; charging stations will be available.

[PDCA of South Carolina Host Successful “Driven Pile Technical Seminar”](#)

The PDCA of the South Carolina Chapter just concluded its 8th one-day “Driven Pile Technical Seminar” on Thursday, March 29, at The Citadel in Charleston, SC.

The seminar was attended by more than 100 engineers, contractors, architects and owners.

The five industry presentations included the following:

- Research, Design and Construction of Column Supported Embankment Technology in the US – Jim Collin, Ph.D., P.E., D.GE (The Collin Group)

- Large Diameter Open-End Piles – Kathryn Petek, Ph.D., P.E. (Shannon & Wilso)
- Static and Seismic Design of Pile for Downdrag – Tim Siegel, P.E., G.E., D.GE (Dan Brown & Associates)
- Radical Changes to Precast Pile Design Provisions – Tim Mays, Ph.D., P.E. (The Citadel)
- Permanent Steel Sheet Pile Walls for Underground Parking Garages – Ric Anderson (Skyline Steel)



The Chapter extends its gratitude to those company sponsors who helped make the seminar such success:

Cape Romain Contractors, Cox Industries, Palmetto Pile Driving, Parker Marine Contracting, Pile Drivers, Inc., Skyline Steel Co., American Pile Driving Equipment, International Construction Equipment, Coastal Engineering, Essev Tech, Inc., S&ME, and Terracon.

Also, thanks to Greg Canivan, S&ME, Seminar Chair, who helped assemble a great presentation line-up.

[PDCA Documents Now Ready](#)

The PDCA Safety and Environmental Committee has completed the development of the “[Pile Driving Safety and Environmental Best Management Practices](#)” document. This 21-page manual prescribes the safety and environmental guidelines for pile driving activities based upon industry standard and industry best management practices. The intent of this best management practice is to provide contractors and owners a guiding document based on safe working principles and risk management for a broad range of pile driving activities. The document is available for download by going to the PDCA website, www.piledrivers.org.

The PDCA Safety and Environmental Committee has also completed revisions to the PDCA “Toolbox Safety Reviews” booklet. The 2nd edition of this booklet contains safety reviews on the following topics:

- ✓ Cranes, Rigging and Signaling
- ✓ Overhead Power Lines
- ✓ Welding, Cutting and Brazing
- ✓ Marine Construction
- ✓ Compressed Gases
- ✓ Heat Illness
- ✓ Personal Protective Equipment
- ✓ Hazard Communications
- ✓ Fueling
- ✓ Flammable & Combustible Materials
- ✓ Fire Prevention
- ✓ Fall Protection
- ✓ Material Handling
- ✓ First Aid / BBP
- ✓ Industrial Trucks (Forklifts)
- ✓ Housekeeping
- ✓ Back Injuries
- ✓ Lightning
- ✓ Vehicle Safety
- ✓ Road Work Safety
- ✓ Ladder Safety
- ✓ Cell Phone

The booklet is made from Tyvek material, so it will weather any project site and is intended to fit in the back pocket of your field supervisory personnel.

PDCA Member and Non-member pricing is available for the booklet. Companies can order single or bulk quantities. Contact the PDCA office for more information – 904-215-4771.

[PDCA Annual Membership Dues](#)

The PDCA annual Membership Dues are now due into the PDCA office. Dues can be paid on-line by clicking [HERE](#), or you can contact the PDCA office to pay by credit card or send your payment with a check in the appropriate amount to the PDCA, 33 Knight Boxx Road, Suite 1, Orange Park, FL 32065.

[Chapter News](#)

[PDCA of the Pacific Coast Chapter](#) – The PDCA of the Pacific Coast Chapter will hold its 8th Annual Scholarship Shoot on Friday, April 13, at Bird's Landing Hunting Preserve, located at 2099 Collinsville Rd., Birds Landing, CA.

The shoot begins at 8:00 AM. Entry Fees are \$170 1st person, \$190 additional person (same company) and \$220 per person (non PDCA members). Entry fees include 100 Targets, 100 rounds of ammo, ear and eye protection, BBQ tri-tip lunch.

Shooters need to bring a shotgun and bag or vest for carrying ammo.

Raffle prizes include: Benelli Nova 12 GA Shotgun and a Browning A-Bolt 3 300 Win Mag Rifle.

PDCA of South Carolina – PDCA of SC dinner meetings will be held on the 1st Tuesday of May, August and November to avoid holiday schedules. The next Chapter dinner will be held on 1st at the Town & Country Inn and Suites, 2008 Savannah Hwy, Charleston, SC.

PDCA of the Gulf Coast Chapter – The PDCA of the Gulf Coast Chapter will hold its second quarterly dinner meeting on Thursday, April 26, 2018, in Baton Rouge, LA. The event location will be announced.

The 3rd quarter dinner meeting for the Chapter will be held on Thursday, August 16, in Biloxi, MS. The event location will be announced.

The 4th quarter dinner meeting for the Chapter will be held on November 15, in Kenner, LA. The event location will be announced.

PDCA of the Pacific Northwest – The PDCA of the Pacific Northwest, the newest PDCA Chapter continues to organize. Recently, the Chapter registered with the Oregon Secretary of State with a corporate email address of piledude@piledude.com. The Chapter is now registered as a domestic non-profit corporation.

Anyone interested in helping the Chapter organize should contact the PDCA PNW Chapter via the above email address or call Bill Marczewski, BSM Consulting Engineers, 503-325-8065; or contact the PDCA office at 904-215-4771.

PDCA of the Northeast