



Pile Dynamics, Inc.

Quality Assurance for Deep Foundations

Webinar on Wave Equation Analysis of Piles using GRLWEAP

Pile Dynamics, Inc. invites you to participate in a Wave Equation Analysis of Piles using GRLWEAP Webinar. Features of GRLWEAP Version 2010 and GRLWEAP Offshore Wave will be, presented, explained and demonstrated. Participants will be eligible for a **10% discount** on GRLWEAP 2010 license or GRLWEAP license update to 2010.

When: January 15, 16, 22 & 23, 2019

All sessions will begin at 9:00 am Eastern (New York Time) and are 2 hours long. Sessions may last longer depending on the number of questions from participants. Questions from participants have to be submitted during the webinar in written form (use chat-box or email) and will either be discussed during the seminar or in personal communication depending on the general interest of the question.

You will have the opportunity to learn from Dr. Frank Rausche and Mr. Ryan Allin without having to leave your desk.

Lecturers:

Dr. Frank Rausche, is a principal of Pile Dynamics, Inc. He has been involved in the research and development of dynamic testing and analysis methods since the mid-1960s, first as a researcher at Case Western Reserve University, where he derived the Case Method equations for dynamic pile testing and developed the CAPWAP® and GRLWEAP software programs, and later as a consultant.

Ryan Allin, P.E., is a senior engineer and partner in GRL Engineers and Pile Dynamics. He has a BS in Civil Engineering from Cleveland State University and has achieved Expert level on the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test. After several years performing the entire range of services offered by GRL throughout the United States and in international offshore projects, Ryan is currently responsible for all GRL's educational programs for foundation testing professionals. In that capacity he has lectured on numerous seminars, webinars and workshops on foundation testing and has co-authored papers on the subject. Ryan is a member of the American Society of Civil Engineers and a registered professional engineer in Ohio, Pennsylvania, West Virginia, Delaware and Kentucky.

Who should attend:

Geotechnical, structural and construction engineers; contractors, researchers and students interested in an introduction or a refresher to the GRLWEAP software for pile driving simulation and analysis. A portion of the webinar is devoted to the theory of wave equation. Introductory level examples will be presented during the first sessions, while more advanced situations will be discussed in the final sessions.

Learning Objectives:

At the conclusion of the webinar attendees will be able to:

- Describe the hammer-soil-model used in GRLWEAP 2010
- Prepare the input for GRLWEAP 2010 wave equation analyses
- Select options for GRLWEAP 2010 analysis and output
- Interpret GRLWEAP 2010 results

Program:

- 1/15 GRLWEAP Fundamentals - a presentation
- 1/16 Workshop demonstrating Bearing Graph and Inspector's Chart analyses
- 1/22 Workshop demonstrating GRLWEAP's drivability analysis
- 1/23 Presentation of correlations and workshop demonstrating the Offshore Wave Version of GRLWEAP 2010.

Certificate of Participation

This program corresponds to 8 Professional Development Hours. A Certificate of Participation documenting the number of hours of instruction (PDH) will be provided to those that pass a short quiz at the end of the webinar. Check with your engineering board of registration for their continuing education requirements.

Registration Information: Cost: \$600.00 per connection. Pre-payment by credit card is required. To register, please email completed registration form (next page) to Registration@pile.com.



Webinar on Wave Equation Analysis of Piles using GRLWEAP Registration Form (Please email form to Registration@pile.com)

4 sessions of at 2 hours each on January 15, 16, 22 & 23, 2019 beginning at 9:00 AM New York EDT

Registration must be received on or before January 8, 2019

One registration is necessary for each "site", which requires internet access of one computer plus a telephone connection. The registered site will be furnished with a user name and password plus conference call information. Site fee includes an unlimited number of participants and up to four Certificates of Participation. Additional certificates are \$10 each. A pdf version of the presentations will be sent to the registered sites prior to the event.

BILLING ADDRESS - (PLEASE PRINT or TYPE)

Organization: _____
Address: _____
City: _____ State/Province: _____
Postal Code: _____ Country: _____
Phone: _____ Fax: _____ Email: _____ (receives log in instructions)

SHIPPING ADDRESS (for certificate of participation and copy of presentation)

Check if same as Billing Address []
Organization: _____
Address: _____
City: _____ State/Province: _____
Postal Code: _____ Country: _____
Phone: _____ Fax: _____ Email: _____ (receives log in instructions)

Pre-Payment by credit card is required. Site Registration for all 4 GRLWEAP Webinar Sessions: \$600.00

Number of Additional Certificates at \$10 Each _____ Total \$ _____ (4 certificates included in fee)

I am Pre-paying by: [] VISA [] MasterCard [] American Express [] Discover

Credit Card No.: _____ Expiration date: _____

Card's Billing address: _____

Verification code: _____ Signature: _____ Print Name: _____

Refund Policy: Cancellations are accepted only before the start of the first session of the Webinar; paid fee will be applied in full to future Webinar.

Name of Participant(s). Must be registered and complete quiz to receive Certificate of Participation.

- 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____