



## Educational Learning Opportunities

### Dates:

December 1, 2 & 3 ,  
2020

### Time:

9:00am EST, USA  
(2-hour duration  
each day)

# Integrity Testing of Concrete Foundations by Low Strain Dynamic Testing, Cross Hole Sonic Logging and Basic Principles of Thermal Integrity Profiling Webinar

Dates: December 1, 2 & 3, 2020

## Learning Objectives:

PIT/CSL Learning Objectives: (\$300 for both sessions)

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

- Compare and contrast each test method, based on advantages, best use and limitations
- Adequately prepare the foundation and select the equipment for an integrity test by PIT and CSL
- Correctly enter necessary input on test equipment
- Analyze field data with the appropriate software for both PIT and CSL Interpret the severity of flaws and defects pinpointed by the tests

TIP Learning Objectives: (\$100 for TIP session)

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

- Describe the basic principles of integrity evaluation using thermal measurements
- Collect data by various methods
- Evaluate eccentricity of cage alignment in the shaft
- Evaluate the measurements for local defects (in cross section or concrete quality)
- Describe the conversion process of temperature to effective shaft radius
- Recommended the time window for testing after casting concrete
- Compare and contrast the advantages of thermal measurements, conventional Cross Hole Sonic Logging
- (CSL) and Gamma-Gamma testing of drilled shafts

## Who should attend:

Geotechnical, structural and construction engineers; testers, researchers and contractors interested in learning more about low strain dynamic foundation testing/ pile integrity testing or PIT), cross hole sonic logging (CSL), and thermal integrity profiling (TIP) techniques.

## Certificate of Completion:

This program corresponds to 2 Professional Development Hours. A Certificate of Completion documenting the number of hours of instruction (PDH) will be provided to those that take a short quiz at the end of the webinar. Check with your engineering board of registration for their continuing education requirements.

## Lecturer: Ryan Allin, P.E.,

**Ryan** 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 PDI'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.



## PIT/CSL/TIP Webinar Registration Form

December 1, 2 & 3, 2020. beginning daily at 9:00 am New York EDT

**Registration must be received on or before November 27, 2020**

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 username and password plus conference call information. Site fee includes an unlimited number of participants and up to four Certificates of Completion. 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 completion)**

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.**

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

We are registering for:

- PIT and CSL Session on Dec 1 & 2 ..... \$300.00
- TIP Session on Dec 3..... \$100.00

TOTAL ..... \$ \_\_\_\_\_

I am pre-paying by:  VISA  MasterCard  American Express  Discover

Credit Card No: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Card's Billing Address: \_\_\_\_\_

Verification Code: \_\_\_\_ Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

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

- 1. \_\_\_\_\_ 4. \_\_\_\_\_
- 2. \_\_\_\_\_ 5. \_\_\_\_\_
- 3. \_\_\_\_\_ 6. \_\_\_\_\_

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.

**Registration Form**  
Please email form to  
[registration@pile.com](mailto:registration@pile.com)

[www.pile.com](http://www.pile.com)  
[info@pile.com](mailto:info@pile.com)  
216-831-6131

**Please email form to [registration@pile.com](mailto:registration@pile.com)**