



PRESENTS  
**PILE LOAD TESTING  
 OPTIONS COURSE**  
 AUGUST 21, 2014



**Thursday August 21, 2014**  
 Sacramento, CA

**Course Description:**

The PDCA will present this one-day course on Thursday, August 21, 2014, in Sacramento, CA.

The course is designed to provide detailed information on the various pile load testing methods, including Static, Rapid and Dynamic load testing. Additional presentations will feature a comprehensive overview of pile load testing, why load test, methods and types, and how a properly designed load test can provide substantial economic benefits.

The course will conclude with a panel discussion, including all speakers and questions from the audience.

**Who Should Attend:**

Geotechnical, Structural and Civil Engineers, Contractors, Engineering Design Consultants, Suppliers of hammers and piles; as well as anyone responsible or involved in pile load test decisions.

**Cooperating Sponsors:**



**Sacramento Section  
 Geo-Institute**



**PDCA of the Pacific  
 Coast Chapter**

The Pile Driving Contractors Association  
 P.O. Box 66208, Orange Park, FL 32065  
 Phone: 888-311-PDCA (7322) Fax: 904-215-2977  
 www.piledrivers.org

**Professional Engineers will earn  
 6 Professional Development Hours**

**Course Outline:**

- Why Load Test?
- General Overview of Rapid Load Testing, High Strain Dynamic Testing and Static Load Testing
- Load Testing Methods
  - Dynamic
  - Rapid
  - Static
- Types of Load Tests
  - Axial Compression
    - Unidirectional (Top Down and Bottom Up)
    - Bidirectional
  - Axial Tension
  - Lateral
- How Can Load Testing Pay Off
  - Safety/Resistance Factor
  - Permissible Material Stress
  - Soil/Pile Set-Up
- Panel Discussion

**Learning Objectives:**

- Familiarity with the various types of pile load testing options and the functionality of each
- Ability to select the most appropriate pile load test for your design/project
- How a well-designed load test program can achieve cost-saving measures, while providing greater overall efficiency and effectiveness in the final pile design

## **PRESENTATION TOPICS and PRESENTERS**

7:30 AM - 8:30AM - REGISTRATION

8:30 AM - 3:00 PM - CLASSROOM PRESENTATIONS

### PRESENTATION SUMMARIES

8:30AM - 10:00AM

**Driven Pile Test Programs—Paying Off with More Than Just Information**, Van E. Komurka, P.E., D.GE, F.ASCE, Wagner Komurka Geotechnical Group, Inc.

Driven pile test programs are often performed for a number of reasons, may include several components, and can yield a variety of results. Often, testing is performed to obtain information pertinent to design and/or construction, and as such is requisite to good engineering practice.

However, since testing carries an obvious, quantifiable up-front cost (of which all interested parties seem painfully aware), potential cost-saving aspects of testing are perhaps overlooked. This presentation will present a number of load testing options and their applications, project aspects which can determine which testing option(s) may be appropriate and why, and considerations for properly designing, implementing, and interpreting a test program. The cost-effectiveness (i.e., value added and/or cost savings) potential of the testing options and their applications will be emphasized.

10:15AM - 11:00AM

**Rapid Load Testing**, Byrl Williams - *Foundation Constructors, Inc.*

The presentation will go over the process of performing a rapid load test including the equipment used and the amount of load that will be applied to the pile. There will be an explanation of why and when this test procedure provides accurate results. The advantages and disadvantages of this test procedure will be discussed. And finally when this test may be the best option for load testing for your job.

11:00AM - 12:00PM

**Dynamic Load Testing**, Brent Robinson, P.E. - *GRL Engineers, Inc.*

Examples, applications, advantages and limitations of dynamic load testing will be discussed in this presentation. External or embedded transducers are used to measure force and velocity during an impact from the pile driving hammer or other drop weight. These signals versus time can be used in conjunction with signal matching software to estimate static load versus displacement curves, as well as the shaft resistance distribution with depth and end bearing.

1:00PM - 2:15PM

**How Can Load Testing Pay Off**, Van Komurka, P.E., D.GE, F.ASCE - *Wagner Komurka Geotechnical Group, Inc.*

This presentation will cover important data acquired from load testing, such as safety/resistance factors, permissible material stress, and soil/pile set-up.

2:15PM - 2:30PM

**Wrap-Up**, Van Komurka

2:30PM - 3:00PM

**Panel Discussion - Q & A**, Van Komurka, Byrl Williams, Brent Robinson - Questions from the audience.

### HOTEL INFORMATION

Hyatt Regency Sacramento  
1209 L Street, Sacramento, CA 95814  
888-421-1442

Attendees are responsible for making their own hotel reservations. The PDCA has secured a special group rate of \$179.00 per night for single or double. Reservations may be made by clicking [HERE](#) or by calling the number above and requesting the "Pile Driving Contractors Association Room Block". **You must make reservations by August 12, 2014 in order to receive the group rate.** If you require travel assistance, please contact PDCA Travel Coordinator, Lorraine Engelman with Blue Ribbon Travel 718-767-5455 or [Lorraine@travelblueribbon.com](mailto:Lorraine@travelblueribbon.com)

## REGISTRATION FORM

Complete & Return to: PDCA, P.O. Box 66208, Orange Park, FL 32065; or fax to 904-215-2977; or scan & email to [jessica@piledrivers.org](mailto:jessica@piledrivers.org). Please type or print clearly. Please fill in all relevant information - PDCA will not process incomplete Registration Forms. If necessary, photo copy this form or download additional forms from the PDCA website, [www.piledrivers.org](http://www.piledrivers.org).

**REFUNDS - 50% PRIOR TO AUGUST 1, 2014 NO REFUNDS AFTER AUGUST 1, 2014**

### Main Conference Registration

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Phone Number \_\_\_\_\_

Website \_\_\_\_\_

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Email Address \_\_\_\_\_

Additional Individual Same Co. First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Email Address \_\_\_\_\_

### Registration:

**Total Fee Each Line**

#### Members - PDCA/Cooperating Sponsor Organizations

**Individual Registration** - \$185.00 \_\_\_\_\_

**Additional Registrations** - \$165.00/per person same company \_\_\_\_\_

#### Non-Members

**Individual Registration** - \$230.00 \_\_\_\_\_

**Additional Registrations** - \$215.00/per person same company \_\_\_\_\_

**Student/Professor Registration** - \$50.00 \_\_\_\_\_

**Government Registration** - \$125.00 \_\_\_\_\_

### Sponsorships:

Luncheon - \$175.00 \_\_\_\_\_

Breakfast and Morning Break - \$125.00 \_\_\_\_\_

### TOTAL PAYMENT DUE PDCA

#### Payment Information (All information must be completed to process your Registration Form):

Check One:  Check  Visa  MC  AMX **Exp. Date:** \_\_\_\_\_

Name On Card: \_\_\_\_\_ **Security Code (3 or 4 Digits):** \_\_\_\_\_

Card Number: \_\_\_\_\_

Card Billing Address: \_\_\_\_\_

Signature: \_\_\_\_\_