Short Course:

Construction Monitoring and Acceptance of Deep Foundations

Jerry A. DiMaggio, *Federal Highway Administration*
George G. Goble, *Independent consultant*

- AGENDA -

8:30 – 9:00	Welcome, Objectives, and Introduction	GG
9:00 – 10:00	Relationship between Design and Construction	JAD
10:00 – 10:15	BREAK	
10:15 – 11:45	Construction Equipment: Drilled and Driven Piles	JAD
11:45 – 12:45	LUNCH	
12:45 – 1:30	Materials and Method Specifications/ Construction Monitoring Responsibilities	JAD/GG
1:30 - 2:00	Dynamic Formulas	JAD
2:00 – 2:15	BREAK	
2:15 – 3:00	Wave Equation Analysis	GG
3:00 – 4:00	Dynamic Pile Monitoring/Integrity testing Drilled and Driven Piles	GG
4:00 – 4:30	Static Load Testing: Drilled and Driven Piles	JAD
4:30 – 5:00	Inspection/ Acceptance of Drilled and Driven Piles	JAD
5:00 – 5:15	Summary and Course Outcomes Review	ALL

When:	Sunday January 23, 2005	**Registration fee:**	$300.00 per person
Where:	Hilton Austin 500 East 4th Street Austin, TX 78701	**Special registration fee for full-Conference registrants:**	$ 50.00 per person

- Registration includes refreshments, lunch, handouts
- Participants receive 7 PDHs

http://www.asce.org/conferences/geofrontiers05/

ABOUT THE COURSE

This course concentrates on the construction monitoring and acceptance aspects of DEEP FOUNDATIONS. Both drilled piles (drilled shafts, auger cast and micropiles) and driven piles are addressed in a balanced manner. Construction Equipment, Specifications, Testing, Inspection and Acceptance Considerations are the "KEY Focus Areas" of this coordinated training program. **Design topics are NOT the focus of this course.**

The course content presents practical guidance on all topics that may be directly applied by attendees. The course is intended for engineers involved with construction, construction monitoring and inspection of deep foundations. Contractors, structural, construction and geotechnical specialists will find this course extremely valuable. The course is presented using adult learning procedures which focus on targeted objectives and measured outcomes. The program is designed on a platform of participant activity and interaction.

A coordinated series of presentations examples and student exercises address the following topics:

- Relationship of construction methods and monitoring technologies on design decisions.
- Construction Equipment (drilled and driven piles)
- Construction monitoring responsibilities
- Static load testing (drilled and driven piles)
- Dynamic formulas (driven piles)
- Dynamic monitoring (driven piles)
- Wave equation analysis (driven piles)
- Inspection of Drilled and Driven Piles

ABOUT THE INSTRUCTORS

Jerry A. DiMaggio is Principal Geotechnical Engineer with the Federal Highway Administration in Washington D.C. and is a member of the adjunct faculty at the University of Delaware, and Johns Hopkins University. He has had over 30 years of experience in geotechnical and foundation engineering practice involving the design and construction monitoring of deep foundations and earth retaining structures. This has included design and construction guidance on over 900 projects in the US, Central and South America, and the Middle East. He serves on numerous national committees and task forces related to the development of technical guidelines, specifications and testing standards related to geotechnical and foundation practice, and has presented over 250 seminars and workshops for professionals in design and construction of bridge foundations, retaining walls and earthworks.

George G. Goble is a consulting engineer who specializes in deep foundations with emphasis on driven pile design and installation. He advises on all aspects of deep foundation design and installation including value engineering, application of LRFD in foundation design, driven pile installation problems and structural aspects of deep foundations design. After working as a structural designer for several years he was on the faculty of Civil Engineering at Case Western Reserve University and later at the University of Colorado. Currently, he is an Adjunct Professor at Utah State University. He supervised the research that developed dynamic pile testing, the Pile Driving Analyzer and techniques for the analysis of pile driving. He recently retired from Pile Dynamics, Inc. and GRL Engineers, Inc., firms that he founded. He now works as an independent consultant.

SPONSOR

This course is sponsored by the Pile Driving Contractor Association (PDCA).