

# FALL 2011 ENSOFT SHORT COURSE

## Design of Deep Foundations: Drilled Shafts and Piles Under Lateral and Axial Loading A Seminar and Workshop Featuring Computer Programs from Ensoft, Inc. November 15-17, 2011

### LOCATION

**AT&T Executive Education and Conference Center**  
1900 University Ave, Austin, Texas 78705  
Tel. (512) 404-1900, [www.meetatatexas.com](http://www.meetatatexas.com)

*Hotel Information: The AT&T Center is located on the southern edge of the UT-Austin campus, on the corner of University Avenue and Martin Luther King Jr. Blvd. Hotel rooms are available at the AT&T Center. There are numerous hotels in all price ranges in the downtown Austin area. Free parking is provided in the AT&T parking garage as part of the course fee, so those wishing to stay at hotels other than the AT&T Center may wish to rent a car during their stay in Austin.*

### REGISTRATION OPTIONS

	Rates*	PDH's
Full Course, Nov. 15-17 .....	\$1,250 .....	22.5
L-Pile Session on Nov. 15 .....	\$660 .....	7.5
Sessions on Nov. 16-17 .....	\$990 .....	15

\* Includes student workbook, lunch, coffee breaks, refreshments, and free parking in the AT&T Executive Education and Conference Center. Vegetarian meals available on request.

Name): \_\_\_\_\_

Company: \_\_\_\_\_

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Please select your method of payment:

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Check for vegetarian lunches

Send by Fax to (512) 244-6067 or register online at  
<http://ensoft2011.eventbrite.com>

### SPEAKERS

#### William M. Isenhower, Ph.D., P.E.

*Program Manager for L-Pile, Ensoft, Inc.* Dr. Isenhower is a registered professional engineer in the States of Texas and Louisiana, with over 30 years of experience in civil engineering, with an emphasis on geotechnical engineering. His experience has been in consulting, government service, university teaching, and contract research. He has been engaged in consulting projects, site investigations, foundation analysis and design, slope stability analysis and design, and retaining structure analysis and design. Dr. Isenhower has served as an Expert on Mission for the United Nations Development Program and has served as an independent technical reviewer for the US Army Corps of Engineers. He has authored over 30 technical papers and reports, and has presented invited lectures in the United States and abroad. Dr. Isenhower is a member of the Academy of Distinguished Graduates of the Department of Civil, Architectural, and Environmental Engineering of the University of Texas at Austin.

#### Shin-Tower Wang, Ph.D., P.E.

*President, Ensoft, Inc., Program Manager for Shaft, APile, and PYWall.* Dr. Wang is a registered professional engineer in the State of Texas, with over 30 years of experience in civil engineering, with an emphasis on geotechnical and structural engineering. He has engaged in numerous consulting projects in soil structure interaction analyses, pile loading tests, deep foundation designs, and numerical analyses. Dr. Wang received M.S. and Ph.D. degrees from The University of Texas at Austin. He has published over 30 technical papers and reports, and has co-authored several computer programs that are currently sold by Ensoft, Inc.

#### Gonzalo Vasquez, Ph.D., P.E.

*Program Manager for Group, Ensoft, Inc.* Dr. Vasquez is a registered engineer in the States of Texas and California, with over 20 years of experience in civil engineering. Dr. Vasquez is an expert in the use of AMPS and ABAQUS for nonlinear, three-dimensional stress analysis. Dr. Vasquez received M.S. and Ph.D. degrees from The University of Texas at Austin.

#### Anoosh Shamsabadi, Ph.D., P.E.

*Senior Bridge Engineer, Caltrans.* Dr. Anoosh Shamsabadi has more than 20 years of professional experience in civil and geotechnical earthquake engineering. He has provided seismic soil-foundation-structure interaction and geotechnical earthquake engineering training for various government agencies and organizations. He has performed technical oversight and reviewed all the geotechnical and earthquake engineering activities for the seismic retrofit of several major bridges and tunnel structures in California. He has been actively involved in the development of computer software using state of the art and practice for seismic analysis and design of earth retaining system for Caltrans engineers. Dr. Shamsabadi has reviewed many papers for ASCE journals and FHWA manuals and publications. Dr. Shamsabadi received his Ph.D. degree from the University of Southern California.

## Tuesday November 15, 2011

Time	Subject	Speaker
8:00	Arrival, computer setup, software installation	Isenhower
8:30	Course introduction	Isenhower
8.45	Principles of Soil-Structure Interaction. Modern principles for design of foundations, types of loading.	Isenhower
9:30	Theoretical Basis of Lateral Load-Transfer Models and Experimental Validation	Isenhower
10:00	<i>Coffee Break</i>	
10:15	<i>p-y</i> Curves Available in LPile and Group	Isenhower
11:00	Structural Analysis of Piles and Drilled Shafts, Nonlinear Moment-Curvature Behavior of Drilled Shafts and Prestressed Concrete Piles	Isenhower
12:00	<i>A buffet lunch is provided by Ensoft</i>	
1:00	Software Training for LPile (Part 1)	Isenhower
2:45	<i>Coffee Break</i>	
3:00	Software Training for LPile (Part 2)	Isenhower
4:00	General Question and Answer. Consultation on Problems of Interest	Isenhower

## Wednesday November 16, 2011

Time	Subject	Speaker
8:00	Practical Considerations for Design of Drilled Shaft Foundations	Isenhower
9:30	Drilled Shafts and Driven Piles Under Axial Loading, Use of <i>t-z</i> and <i>q-w</i> curves	Isenhower
10:00	<i>Coffee Break</i>	
10:15	Software Training with Shaft	Wang
11:00	Testing of a fully instrumented pile under axial loading	Isenhower
11:30	Analysis of Pile Groups Under Axial and Lateral Loading	Vasquez
12:00	<i>A buffet lunch is provided by Ensoft</i>	
1:00	Analysis of Pile Groups Under Axial and Lateral Loading (continued)	Vasquez
2:00	Software Training for Group – Basic Input, Visualization of Results	Vasquez
3:00	<i>Coffee Break</i>	
3:15	Software Training for Group – Advanced Input, Interactive Group Modeling	Vasquez
4:30	General Question and Answer. Consultation on Problems of Interest	All

## Thursday November 17, 2011

Time	Subject	Speakers
8:00	Selection of Seismic Design Parameters for Foundations and Retaining Walls, Part 1 - Geotechnical Considerations	Shamsabadi
10:00	<i>Coffee Break</i>	
10:15	Selection of Seismic Design Parameters for Foundations and Retaining Walls, Part 2 – Practical Seismic Soil-Foundation-Structure Interaction	Shamsabadi
12:00	<i>A buffet lunch is provided by Ensoft</i>	
1:00	Driven Piles Under Axial Loading	Wang
1:45	Software Training for APile	Wang
3:00	<i>Coffee Break</i>	
3:15	Introduction to Design of Flexible Retaining Walls	Wang
4:00	Software Training for PYWall	Wang
5:00	<i>End of Short Course</i>	

All students will receive a student notebook containing reference and lecture materials. In addition, Ensoft will provide a lunch buffet for all attendees each day. Vegetarian meal choices are available on request.

Free parking is provided to all attendees in the parking garage of the AT&T Center. Please note that the maximum allowable vehicle height in the garage is 7 ft, 2 inches.

Course attendees are encouraged to bring a laptop computer to the course. Attendees bringing computers to the course will be loaned software for use during the course and will be able to participate in the solution of design exercises.

Those attending the short course are also encouraged to bring design problems of interest to them and their employers. Advice on how to set up design computations for the design problem and guidance about preparation of plans and specification will be provided by the instructors.

The number of spaces available in the short course is limited, so registration will be based on a first come-first served basis.

Companies wishing to inquire about having the same training course or another advanced training course to be held at their offices may call Ensoft to obtain a cost proposal.

Companies wanting information about the two-day short course on Design and Construction of Drilled Shafts offered by Ensoft and may call Ensoft to obtain a cost proposal.

### SPECIAL OFFER

Software products developed by Ensoft, Inc. may be purchased by course attendees at a 20% discount within 30 days of the Short Course.

### Now Available from Ensoft

LPILE Plus 6 for Windows .....	\$1,000
Group 8 for Windows.....	\$1,800
Shaft 6 for Windows .....	\$790
APile 5 for Windows .....	\$790
APile 5, Offshore Version .....	\$1,180
PYWall 3 for Windows.....	\$850
TZPile 2 for Windows .....	\$750
StabiPro 3.0 for Windows .....	\$490
LPA 3 for Windows .....	\$490
SetOff 2.0 for Windows .....	\$490
GeoMat 1 for Windows .....	\$990
DynaPile 1 for Windows .....	\$1,490
DynaMat 1 for Windows .....	\$1,490
DynaN 3 for Windows .....	\$2,900
Ensoft Dynamics Suites .....	\$5,000
EnBeamC 6 for Windows .....	call
Atena (fracture analysis of reinforced concrete) .....	call
AMPS (3-D Finite Element Analysis).....	call

#### Call for volume, upgrade, and academic pricing

<i>Single Piles and Pile Groups Under Lateral Loading</i> by Lymon C. Reese and William F. Van Impe, 2 <sup>nd</sup> Edition (2011)	
Paperback .....	\$120

For more details and online registration, visit us at [www.ensoftinc.com](http://www.ensoftinc.com) or send email to [ensoft@ensoftinc.com](mailto:ensoft@ensoftinc.com)