AMERICAN SOCIETY OF CIVIL ENGINEERS

Live Interactive Web Seminar

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New Webinar

Load and Resistance Factor Design (LRFD) for Geotechnical Engineering Features: Drilled Shaft Foundations

Sponsored by ASCE Continuing Education and ASCE'S Geo-Institute (GI)

MONDAY, February 8, 2010
12 Noon - 1:30 pm Eastern Time

PURPOSE AND BACKGROUND

In January 2009, ASCE initiated a new series of webinars that address the practical implementation of Load and Resistance Factor Design (LRFD) for geotechnical features. The series is broadly divided into two major areas: LRFD Fundamentals and LRFD Applications. The LRFD fundamentals are taught in a two-part webinar that includes discussion on basics of LRFD, loads, load combinations and limit states. The LRFD applications address a number of topics ranging from shallow foundations, deep foundations (drilled shafts, driven piles, and micropiles) and earth retaining structures (cut and fill). Also included among the application topics is a 90-minute stand-alone webinar covering subsurface explorations and the testing and application of soil and rock test results. The technical and guidance material presented in this webinar series has application to all industries where civil engineering infrastructure features are used.

It is assumed that participants enrolling in any of the application focused webinars have a fundamental understanding of the design and construction of geotechnical features. Ideally, the participants should also have taken the initial two-part webinar on LRFD fundamentals. The next offering of the two-part webinar on LRFD fundamentals is on Wednesday, March 10 and Wednesday, March 17, 2010.

This webinar concentrates on drilled shaft foundations. Drilled shaft foundations are often a technically sound and cost effective foundation choice where a deep foundation solution is appropriate based on site conditions, applied loads and project schedule and performance requirements. The LRFD platform offers a rational framework for consideration of drilled shaft foundation systems. The webinar will use the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications as a basis for the technical content. Applicable articles in Section 10.5 and 10.8 of AASHTO LRFD Specifications will be used as a basis of discussion.

The webinar will include discussion on the terminology and construction of drilled shafts, identification of limit states and resistance factors, development and use of axial resistance charts, concept of mobilized resistance, group efficiency factors for evaluation of axial resistance of shafts in groups, p-multipliers for evaluation of lateral resistance of shafts in groups, redundancy, evaluation of settlement of shaft groups, use of construction point concept, uplift resistance, consideration of extreme event limits state such as scour and seismic events, and typical structural detailing. The webinar will assume that the participant has a basic working knowledge of design and construction of drilled shafts.

LEARNING OBJECTIVES

This webinar will help participants analyze and size drilled shaft foundations using the LRFD approach.

SEMINAR BENEFITS

- Learn basics of LRFD-based analysis of drilled shaft foundations
- Continue building on the knowledge gained from previous LRFD webinars
- Examine the possibilities and benefits of improved communications between geotechnical and structural specialists for drilled shaft foundation design
- Earn 1.5 Professional Development Hours (1.5 PDHs)

INTENDED AUDIENCE

This webinar will benefit geotechnical and structural specialists as well as general civil engineering designers involved in the analysis and design of drilled shaft foundations. General and specialty deep foundation contractors will also benefit from the webinar. Basic knowledge of LRFD and geotechnical principles is a prerequisite. The webinar will benefit professionals with 0-25 years of practical experience in analysis/design and construction of drilled shaft foundations.

SEMINAR OUTLINE

- Terminology and construction
- Failure modes and limit states
- Resistance and resistance factors
- Axial resistance charts
- Lateral resistance
- Extreme events
- Typical structural detailing

"The webinars offered by ASCE are the easiest ones for me to present to groups. I appreciate how consistently organized ASCE webinars are."- Dana M. Hardy, Executive Secretary City of Oklahoma City Utilities - Administration

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REGISTRATION FEES*

LOAD AND RESISTANCE FACTOR DESIGN (LRFD) FOR GEOTECHNICAL ENGINEERING FEATURES: DRILLED SHAFT FOUNDATIONS

MONDAY, February 8, 2010 / 12 noon – 1:30 pm Eastern Time

❑ $299 Member ❑ $349 Non-Member

Information/Registration:

SEMINAR INSTRUCTOR

Naresh Samtani, P.E, Ph.D., M.ASCE, is the owner and President of NCS Consultants, a geotechnical firm located in Tucson, Arizona. He earned his doctorate from the University of Arizona in Tucson and has over 20 years of experience. He has worked on major transportation facilities in many parts of the country including over 100 bridges, over 250 retaining walls and several ground improvement projects. His experience on bridges has ranged from routine single-span to major bridges over waterways and bridges as part of 5-level traffic interchanges. Naresh is a Certified Instructor for the National Highway Institute (NHI) of the Federal Highway Administration and has taught courses on a variety of geotechnical topics including the course on Load and Resistance Factor Design (LRFD) for Bridge Substructures and Retaining Walls. He has helped develop LRFD implementation processes and comprehensive design policies for several agencies with emphasis on interaction between geotechnical and structural engineers. He has presented over 100 seminars across the country on various topics in geotechnical engineering. Additionally, he has authored and co-authored several manuals and technical papers. Naresh is a member of ASCE, and GI and is a current member of the Geo-Institute technical committee on Earth Retaining Structures as well as TRB's foundations committee.

BENEFITS OF LIVE TELEPHONE/WEB SEMINARS

These online courses use teleconferencing and the Genesys Meeting Center software to make the courses actual live, interactive learning experiences. You will be able to ask the instructor questions and get live real time answers. The instructor will be able to conduct polls to gage your interest in certain areas and ask you questions as well. You will receive course materials by e-mail prior to the seminar and will be able to view the instructor's Power Point slides during the seminar. These types of online courses have a much higher impact than simply reading material on the web. Live telephone/web seminars offer exceptional convenience and are very cost-effective. No travel is required and the site registration fee allows an unlimited number of participants to attend at each site. In addition, each course participant will earn one Professional Development Hour (PDH) per seminar hour.

SYSTEM REQUIREMENTS FOR PARTICIPANTS

As a participant using the Meeting Center, your computer must meet the following requirements:
Audio: Using a touch-tone telephone.
Web: Microsoft Internet Explorer 6.0, Mozilla Firefox 1.5 for Windows/Mac/Linux, or Safari 2.0 for Macintosh*. Internet connection of minimum 128K.
Pop-up Blockers: All Pop-up blockers must be disabled.
Java: Microsoft Internet Explorer 5.5 with Java script and session cookies enabled.

**Safari on Windows is not supported*

REGISTRATION INFORMATION

For more information please contact the webinars registrar at: webinars@asce.org. Please note: Registration for each seminar will be closed three business days prior to the seminar. No cancellations will be accepted if they are received within three business days of a seminar. Late registrations may be accepted if space is available and will be assessed a $25.00 late registration fee. Your registration will be confirmed by e-mail. Two business days before the seminar, you will receive a confirmation e-mail with a link to download the course materials, a sign in sheet to verify attendance, and detailed information on how to join the meeting; including the phone number you'll need to dial, and meeting number. Please contact the registrar, at webinars@asce.org, no later than 12 noon Eastern Time the day prior to the seminar if you do not receive the confirmation e-mail or for additional information.

CEU'S/PDH'S

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