

Agenda

- 11:30-12:30pm Registration & Lunch to be Served
- 12:30-1:30pm The Role of the Geo-Professional in Design and Construction
- Presenter Vic Donald-Terracon*
- 1:30-2:45pm Lateral Loading of Deep Foundations
- Presenter Dr. Paul Gilbert-Soiltech*
- 2:45-3:00pm Break
- 3:00-4:15pm Intermediate and Deep Foundation Alternatives
- Presenter Brad Ormon & Richard Curtis-BCD*
- 4:15-4:45pm Questions & Answers
- 4:45-6:00pm Social Hour- Drinks & Heavy Hors d'oeuvres to be served



SEAMS
P. O. Box 1706
Jackson, Mississippi
39215-1706

Address Correction Required

Structural Engineers Association of Mississippi



Presents:

2011 GEOTECHNICAL ENGINEERING SEMINAR

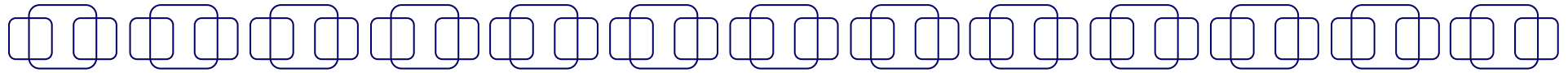
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BURNS COOLEY DENNIS, INC.

GEOTECHNICAL AND MATERIALS ENGINEERING CONSULTANTS
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June 9th, 2011
Jackson, Mississippi



About the Seminar

Thursday, June 9, 2011
11:30 a.m.-6:00 p.m.

The Capital Club
125 S Congress St. 19th Floor
Jackson, MS 39201-3301

The seminar is designed to provide 4.0 hours of continuing education units and includes lunch at the Capital Club, appetizers, and a social hour from 4:45-5:45 which includes heavy hors d'oeuvres & two drink tickets. Cost for the seminar is as follows:

\$49 for SEAMS Members
\$74 for Non-members

To register for the event, please rsvp@seaoms.org no later than **MONDAY, June 6, 2011** or mail a check made payable to "SEAMS" along with the name(s) of the individuals planning to attend to the SEAMS mailing address listed in this brochure.



Seminar Topics

The Role of the Geo-Professional in Design and Construction.

Presented by Victor R. Donald, P.E. - Terracon

The geotechnical engineer routinely works with the structural engineer, civil engineer and architect to render a viable approach to design and construction of a myriad of projects ranging from simple to complex. The geotechnical engineer should serve as an integral part of the design and construction team in such a manner to guide the decisions that impact the site preparation and foundation aspects of the work. Far too often the geotechnical engineer merely delivers a report of site conditions along with suggestions for design and construction, leaving the civil and structural engineers with the task of determining the final design.

The presentation seeks to point out the need for maintaining the involvement of the geotechnical engineer as an Engineer of Record, utilizing their experience and state-of-the-practice knowledge to develop specialty foundation designs, minimize the unknowns that are inherent in the geotechnical practice, and allowing the other professionals an excellent resource for those aspects of construction that are unique to the geo-profession.

The topic will be presented by Mr. Vic Donald. He currently serves as chair of ASCE's Geo-Institute Task Force dedicated to enhancing the professionalism of the geotechnical engineer.

Lateral Loading of Deep Foundations

Presented by Dr. Paul Gilbert, P.E. - Soiltech

Almost without exception, deep foundations must support substantial lateral loads in addition to the support of axial loads in a soil-structure interaction. Generally the methodology for support of lateral loads is more complex than that of axial loads. In a soil-structure interaction analysis, equilibrium of forces and compatibility of displacements must be achieved for a complete solution.

This presentation will focus on the lateral loading of piles, and will present some basic theory of piles subjected to lateral loads as well as one of the modern elastic methods of solution based on finite difference solution of the basic differential equation. Characteristics of several of the soil behavior models used in the elastic method of solution will be discussed along with characteristics of those soils. The reaction of laterally loaded piles to loss of support as the result of liquefaction of the base will be discussed.

Seminar Topics

Intermediate and Deep Foundation Alternatives Presented by Brad Ormon, E. I. and Richard Curtis, P.E. - Burns Cooley Dennis, Inc.

When conventional shallow foundation systems are not suitable for a project, either due to poor soil conditions or heavy structural loading, various intermediate or deep foundation alternatives are available. This presentation will briefly describe typical intermediate and deep foundation alternatives available in our area and focus on a few alternatives that have become increasingly prevalent. For intermediate foundations, intermediate stone columns or piers (such as Rammed Aggregate Piers provided by the Geopier Foundation Company) and helical piles (such as Chance helical foundation anchors/piles distributed by Foundation Technologies, Inc.) will be discussed. For deep foundations, straight sided shafts and auger-cast piles will be discussed.

The first portion of the presentation will cover applicability of each system considering both soil conditions and structure loads, followed by a brief overview of design methods. The second portion of the presentation will cover quality control methods for each intermediate and deep foundation system discussed.

The topic will be presented by Brad Ormon & Richard Curtis with Burns Cooley Dennis, Inc. Brad has ten years of geotechnical engineering experience and has extensive experience in design and construction of deep foundations, including auger-cast piles and driven piles. Richard has 30 years of geotechnical experience including the design and construction of deep foundations and ground improvement techniques. Richard has been designated a Diplomate of Geotechnical Engineering by the Academy of Geo-Professionals and is a Fellow of ASCE.

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