Pile Cap Analysis, Design, and Detailing in Accordance with the 2012/2015 IBC and ACI 318-11/14

**Course Description:**
Authored by Timothy W. Mays, Ph.D., P.E. and heavily peer reviewed by national and international experts in deep foundation design and construction, *Pile Cap Design Guide* published cooperatively by CRSI and DFI is much more than an updated version of Chapter 13 of the very popular *CRSI Design Handbook* (2008). The new, standalone publication contains over 150 pages of comprehensive technical content and practical design examples utilizing approximately 30 different, yet commonly used, pile cap configurations. All relevant code provisions for pile caps including those related to the interaction among pile caps, columns, and piles of different material types (concrete, steel, and timber) under combined vertical loading, lateral loading, and overturning is included in this guide. Tabulated designs are also provided for all aforementioned pile cap configurations and a wide range of vertical loading, lateral loading, and overturning effects. A new software program based on the design guide is also provided (at no additional charge) to those attendees electing to purchase the publication.

Part I of the course provides a thorough overview of pile cap analysis, design, and detailing in accordance with the latest codes and standards. Part II of the course covers vertical load design of pile caps and uses practical design examples to shown how all relevant limit states should be considered. Part III expands the previous portion of the course to include lateral loads and overturning. Part IV highlights proper use of tabulated design details for vertical and lateral loads and provides example applications of the software program which allows the user to alter the assumptions made in the tabulated design solutions.

Course hours are approved for all states including FL and NY through the National Council of Structural Engineers Associations. All attendees may elect to purchase one copy of *Pile Cap Design Guide* at a reduced cost of only $49 (that is a significant savings off the yet to be released cover price). If you want a better understanding of pile cap behavior for vertical and lateral loading and access to the latest tools to design pile caps more efficiently and economically, you don’t want to miss this opportunity.

Space is limited. Please register early.

**What Do Attendees Receive?**
- 4.0 Professional Development Hours
- Binder of complete course notes and example problems worked during the course
- Access to freeware used for some topics
- Breakfast
- Optional Textbook (*Pile Cap Design Guide*) for only $49!

**Schedule:**
- 7:30 – 8:00 Registration
- 8:00 – 9:00 Pile Cap Design and Analysis
- 9:00 – 10:15 Design of Pile Caps for Vertical Loads
- 10:15 – 11:00 Design of Pile Caps for Lateral Loads
- 11:00 – 12:00 More Practical Examples

**Course Instructor:**
Timothy Wayne Mays, Ph.D., P.E. is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays recently served as Executive Director of the Structural Engineers Associations of South Carolina and North Carolina. He currently serves as NCSEA Publications Committee Chairman. He has received three national teaching awards (ASCE, NSPE, and NCSEA) and both national (NSF) and regional (ASEE) awards for outstanding research. He is the recipient of the 2009 NCSEA Service Award. He is a prolific speaker who sits on several code writing committees and his areas of expertise are code applications, structural design, seismic design, steel connections, structural dynamics, and civil engineering aspects of antiterrorism.

National Council of Structural Engineers Associations Course Approval No. 150219B
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Registration Form

DATE AND LOCATION:

☐ July 24, 2015 – Atlanta, GA
    Holiday Inn Express Peachtree Corners NE
    7035 Jimmy Carter Blvd.
    Norcross, GA, 30092

To Register, please complete the application below and E-mail it to timothymays@bellsouth.net. Confirmation packages will be delivered by E-mail. E-mail questions directly to Timothy Mays, Ph.D., P.E. Please mail the completed form with a check to the address at the bottom of this page. All checks should be made payable to SE/ES.

Name: ______________________________
Company: ___________________________
E-mail: ______________________________
Address: ____________________________
City: _________ State: _____ Zip: _______
Daytime Phone: ______________________

Are you a registered SEoG member?_____

Amount Enclosed with Check: ___________

Note: For 2015, SE/ES is only accepting payment by check. Dr. Mays apologizes for the inconvenience but maintaining the credit card service was extremely expensive. If you need to bring the check to the event, that is fine, but please submit the form prior to the early registration deadline to qualify for the reduced cost advertised below.

Signature: ____________________________

COST:
$129 - if received 2 weeks prior to event
$149 - if received less than 2 weeks prior to event
$49 - unemployed and full-time student special rate
$10 additional discount for registered SEoG members (applies to $129 and $149 rates only)
$30 discount for each additional registration from the same company (e.g., 3 people from the same company pay 1 x $129 + 2 x $99 = $327)