



SEAoAL Spring Seminar

Applying the 2012 IBC to the Design of Concrete Building Systems: Engineering Tilt-Up & to Pile Cap Analysis, Design, and Detailing

TUESDAY, MARCH 24TH, 2015

Alabama AGC Conference Center

5000 Grantswood Road

Irondale, AL 35210

(205) 451-1422

REGISTRATION DETAILS ON BACK

SEAoAL member price: \$195 early registration/ \$230 late registration (Includes BINDER)

8:00 a.m.—8:30 a.m.	Registration
8:30 a.m.—9:30 a.m.	Intro to Tilt Up
9:40 a.m. — 11:10 a.m.	Vertical and Out-of-Plane Design of Tilt Up
11:10 a.m.—12:10 p.m.	Lateral Design of Tilt Up including Foundations
12:10 p.m.—12:50 p.m.	Lunch
1:00 p.m.—1:30 p.m.	More practical Tilt Up Examples
1:40 p.m.—2:40 p.m.	Pile Cap Design and Detailing
2:50 p.m.—4:30 p.m.	Practical Pile Cap Design Examples for Vertical and Lateral Loads

Non-member price: \$235 early registration/ \$285 late registration (Includes BINDER)

Discount on Tim Mays BOOKS!

Engineering Tilt- Up

Reg. \$255- SEAoAL Seminar Price **\$105**
Pile Cap Design

Reg. \$64 SEAoAL Seminar Price **\$49**

SCHEDULE

**SEMINAR OVERVIEW: TOTAL OF 8 PDHS
(NCSEA DIAMOND APPROVED ALL STATES)**

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 (ASCE) 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.

COURSE DESCRIPTION: Authored by Timothy W. Mays, Ph.D., P.E. and Joseph J. Steinbicker, P.E., S.E., *Engineering Tilt-Up* is a newly published 365 page textbook that presents basic engineering principles, code interpretation, and practical design methodologies for tilt-up structures and their components. The organization of the chapters making up the main body of the text are ideal for engineers just beginning with tilt-up or for seasoned tilt-up engineers looking for excellent example problems that focus on the latest codes and standards such as the 2012 IBC and ASCE/SEI 7-10. In addition to the chapter material, *Engineering Tilt-Up* features three, full-building design examples presenting simplified standard practice approaches to the design of realistic projects with common building irregularities.

Part I of the course introduces Tilt-Up as a unique form of precast concrete construction and provides an overview of special design provisions from ACI 318 as applicable to slender walls. This portion of the course is focused on understanding how Tilt-Up walls are designed for the combined effects of vertical and out-of-plane seismic and wind loading. Part II of the course covers lateral (i.e., in-plane) design and detailing of tilt-up walls including special connection details unique to Tilt-Up foundation elements. Parts III and IV highlight the design and detailing of actual Tilt-Up structures and cover special topics such as diaphragms, chords, collectors, roof expansion joints, foundation design, and simplified analysis procedures that do not require the use of computer software.

Pile Cap Analysis, Design, and Detailing

Part II 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 show 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 make assumptions that are different than those made when developing the tabulated design solutions.

REGISTRATION FORM

Please print legibly. Companies with multiple attendees, please fill out a form for each person.

Name	Company	
Address	City	Zip
Email	Phone	Cell

Registration received by Monday March 10th, 2015

- SEA Member \$ 195 X _____ = \$ _____
- Non Member \$ 235 X _____ = \$ _____

Late Registration: received after March 11th, 2015

- SEA Member \$ 235 X _____ = \$ _____
- Non Member \$ 285 X _____ = \$ _____

Registration includes **YUMMY** breakfast, snacks and lunch.
(all day beverage station)

*TO PAY BY CREDIT CARD www.seaoal.com

To join SEAoAL

SEAoAL Membership Registration

- Professional \$ 85 X _____ = \$ _____
- Associate \$ 40 X _____ = \$ _____
- Student \$ 25 X _____ = \$ _____
- Affiliate \$150 X _____ = \$ _____
- Pile Cap Design \$49 + \$3 cc fee = \$ _____**
- Engineering Tilt Up \$105 + \$4 = \$ _____**
- TOTAL \$ _____

Discount on Tim Mays BOOKS!
Engineering Tilt- Up
Reg. \$255 SEAoAL Seminar Price \$105
Pile Cap Design
Reg. \$64 SEAoAL Seminar Price \$49

All attendees may elect to purchase one copy of Engineering Tilt-Up at a reduced cost of only \$105 (that is a savings of \$155 off the cover price) and one copy of *Pile Cap Design Guide* at a reduced cost of only \$49 (that is a savings of \$25 off the cover price and includes the fully operational pile cap design software as well).). 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.



If paying by check, make checks payable to:
SEAoAL
 Mail check and registration form to:
Structural Engineers Association of Alabama
 P.O. Box 660584
 Birmingham, AL 35266-0584

Email registrations to:
rhea@karmamanagementinc.com
 Rhea Williams
 Executive Director, SEAoAL
 (205) 601-2345

SEMINAR LOCATION

**Alabama General Contractors
 Conference Center**
 5000 Grantswood Road
 Irondale, AL 35210
 (205) 451-1422

HOTELS NEAR AGC

Hampton Inn & Suites
 3930 Grants Mill Road
 205-933-0444

Holiday Inn Express
 811 Old Grants Mill Road
 205-957-0555

SEAoAL membership is open to all structural engineers and companies affiliated with the structural engineering profession. For more information about SEAoAL membership: professional, associate, student, retired or affiliate, please contact Rhea Williams, Executive Director, 205-601-2345 or email: rhea@karmamanagementinc.com