Meeting Notice

Join us for an educational presentation

Semi-Rigid Diaphragms and Other Practical Structural Engineering Design Examples

Based on the 2006/2009 IBC and ASCE/SEI 7-05

Timothy Mays, Ph.D., P.E. of SE/ES, will host a morning course using concept oriented instruction and real world examples to discuss topics such as semi-rigid diaphragms, sloped diaphragms, seismic joints and sliding connections, heavy wheel loading, and more. Attendees will receive 4.0 PDH, a binder of complete course notes and example problems, access to freeware, and breakfast.

DATE: Friday, April 1, 2011

TIME:
7:30am – 8:00am – Registration/Breakfast
8:00am – 12:00pm – Course Instruction

LOCATION: One Richmond Square
Suite 147N (For Registration)
Providence, RI 02906

SPEAKER: Timothy Mays, Ph.D., P.E.
President
Structures Engineering and
Educational Solutions, LLC

FEE: $100 for SEARI members

EDUCATION: 4.0 PDH's are awarded to attendees

RSVP: By March 25, 2011
Mail in Registration Form (See Below)
suttonr@odehengineers.com

FOOD: Breakfast will be served from 7:30am to 8:00am

For additional information regarding this presentation, go to www.seari.org

Cut off below and mail registration fee and information by March 25, 2011

SEARI encourages all attendees to pre-register for this course. Space is limited, please register early. Please RSVP to Ryan Sutton by mailing your $100 registration fee (payable to SEARI) to:

Ryan Sutton
c/o Odeh Engineers
1223 Mineral Spring Ave
North Providence, RI 02904

Name: _____
Company: _____
Phone: _____
Email: _____

Structural Engineering and Education Solutions, LLC

National Council of Structural Engineers Associations

Semi-Rigid Diaphragms and Other Practical Structural Engineering Design Examples: Based on the 2006/2009 IBC and ASCE/SEI 7-05

COURSE DESCRIPTION:

The *2006/2009 International Building Code* (*IBC*) and *ASCE/SEI 7-05* contain a variety of requirements that are difficult for structural engineers to apply during routine practice. To make matters worse, finding practical example problems with realistic design constraints is an arduous task at best. Some of the most commonly mentioned topics include:

- Semi-rigid diaphragms (seismic and wind)
- Sloped diaphragms
- Seismic joints and sliding connections
- Simplified dynamic analysis to include alternate means and methods commonly used in design (to save the client money)
- Design and detailing for heavy wheel loads (i.e., fork trucks) on elevated slabs

Using concept oriented instruction and real world practical examples, Dr. Mays covers these topics and more in this new short course. As always, Dr. Mays uses hand calculations, simple statics, and easy to understand examples to verify the accuracy of models prior to utilizing them in the course's more complex examples. This new course is sure to challenge the young engineer to think while offering the seasoned structural engineer excellent design examples that currently do not exist in the literature. Note that a few of the topics (e.g., semi-rigid diaphragms) covered in the course require some degree of elementary computer modeling to determine seismic and wind demands. In such cases, computer results will be provided during the course and these results will not be software program specific. Most, if not all, commonly used structural analysis programs may be used to obtain the results as presented in the course.

Course hours are approved for FL and NY through the National Council of Structural Engineers Associations.

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

SCHEDULE:

7:30 – 8:00	Registration/Breakfast
8:00 – 8:45	Semi-Rigid Diaphragms - Modeling
8:45 – 9:30	Semi-Rigid Diaphragms - Design and Detailing
9:30 – 10:00	Sloped Diaphragms/Seismic Joints
10:00 – 11:15	Simplified Dynamic Analysis
11:15 – 12:00	Elevated Slab Design for Heavy Wheel Loads

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 two national teaching awards (ASCE and NSPE) 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. 110205E