



Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE/SEI 7-10

COURSE DESCRIPTION:

While acceptable building system performance under anticipated daily loading is expected by building owners and mandated by building codes and material standards, structural engineers are given little practical design guidance on how to best meet these requirements. To add to the confusion, conflicting limitations can be found in the literature while applications and interpretations of code provisions vary among design professionals. This new course is based on NCSEA's design guide titled Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE/SEI 7-10. In the course, Dr. Mays uses design examples given in the design guide and many of his own additions to illustrate recommended practices for building serviceability. Various example building types are considered and some topics covered in the course include:

- Load types; service vs. nominal loads; load combinations
- Common issues in serviceability design; modeling of structures for realistic performance
- Building system deformation limits; nonstructural systems and compatibility
- Static deformations (floors and roofs); floor vibrations
- Building drift; diaphragm serviceability
- Exterior wall serviceability
- Simplified analysis methods

Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE/SEI 7-10 provides practical information and design examples for design professionals to evaluate the serviceability performance of buildings against requirements of the 2012 IBC. It provides detailed explanations and examples of applications of code provisions and standards for a broad scope of materials, building systems, and building components. The guide includes information and examples covering the vast majority of limit states encountered in the structural design of buildings. Course hours are approved for FL and NY through the National Council of Structural Engineers Associations. All attendees receive one copy of Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE/SEI 7-10.

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
- \$60 NCSEA/ICC Publication (course title)

SCHEDULE:

- 7:30 – 8:00 Registration/Breakfast
- 8:00 – 8:45 Introduction to Building Serviceability
- 8:45 – 9:45 Steel Frame Apartment Building
- 9:45 – 10:30 Reinforced Concrete Commercial Building
- 10:30 – 11:30 Composite Steel Commercial Building
- 11:30 – 12:00 Steel/Masonry Warehouse

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.



Structural Engineering
and Education Solutions, LLC

National Council of
Structural Engineers Associations



Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE/SEI 7-10

Registration Form

DATE AND LOCATION:

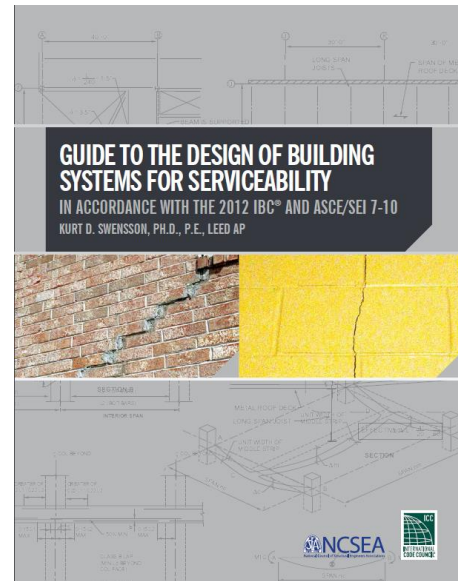
MARCH 26, 2014 @ 7:30AM

**KLINGSTUBBINS
2301 CHESTNUT STREET
PHILADELPHIA, PA 19103**

To Register, please complete the application below and mail it with your payment to DVASE, 1231 Highland Avenue, Fort Washington, PA 19034.

Name: _____
 Company: _____
 E-mail: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Daytime Phone: _____
 Fax: _____
 Amount Enclosed with Check: _____
 Florida License Number (for reporting hours): _____

COST:
EARLY BIRD – REGISTER AND PAY BY MARCH 12:
 \$160 – DVASE MEMBERS
 \$195 – Non-Members
BEGINNING MARCH 13:
 \$185 – DVASE MEMBERS
 \$220 – Non-Members



Discounts are available for firms sending multiple attendees. Please call Patty Russo (215) 628-9844 if you are sending 3 or more registrants from the same firm.
 Enter Additional Attendee Names Here: _____

DELAWARE VALLEY ASSOCIATION OF STRUCTURAL ENGINEERS

1231 Highland Avenue, Fort Washington, PA 19034
 Email: pattyrusso@barrpino.com
 Tel: 215.628.9844 Fax: 215.628.9839