



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.



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Registration Form

DATE AND LOCATION*:

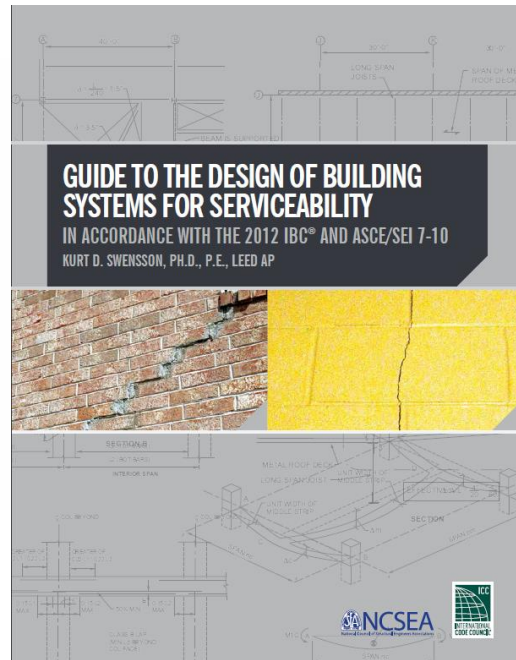
May 19, 2014 – Columbus, OH
Hampton Inn & Suites–Easton
4150 Stelzer Road, Columbus, OH 43230

May 20, 2014 – Toledo, OH
Hampton Inn & Suites–Toledo North
5865 Hagman Road, Toledo, OH 43612

May 22, 2014 – Cleveland, OH
Hampton Inn & Suites–Cleveland
Airport/Tiedeman Road
10305 Cascade Crossing, Brooklyn,
Ohio 44144

To Register, please complete the application below and fax it to SE/ES at (803) 753-9296 (or send via mail to the SE/ES address below). Confirmation packages will be delivered by E-mail. E-mail questions to SE/ES at the address listed 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: _____
Fax: _____
Amount Enclosed with Check: _____
MC VISA
Credit Card Number: _____
Name on Card: _____
Card Expiration Date: _____
Signature: _____



COST:

\$195 - if received by May 12, 2014

\$225 - if received after May 12, 2014

\$49 - unemployed and full-time student special rate (does not include textbook)

\$30 discount for each additional registration from the same company (e.g., 3 people from the same company pay 1 x \$195 + 2 x \$165 = \$525)

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and Education Solutions, LLC**
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