

ADAPT

Structural Concrete Software

A Two-day Practical and Interactive Workshop

Workflows for Success: Concrete and Post-tensioned Building Design

Hands-On Software Training with Practical Design Lectures

2016 Dates

Miami, FL – April 14-15

Houston, TX – April 28-29

Minneapolis, MN – July 21-22

San Francisco, CA – October 6-7

Course Overview

This workshop series is specifically tailored for those interested in hands-on, in-depth training in 3D-FEM concrete software, modeling procedures and techniques for the design and analysis of post-tensioned buildings. Comprehensive workflows and interactive step-by-step training will be conducted for modeling of a multi-story building, gravity loading and floor design, lateral loading and design, soil-supported foundations, and column design.

Each module will offer intensive, start-to-finish instruction of each workflow utilizing ADAPT-Builder 2016 software (including ADAPT-Floor Pro, Edge and MAT) in an interactive learning environment. Specific attention will be given to the use and integration of ADAPT's multistory analysis tool, ADAPT-Edge, with regards to load takedown, column design, and integration of results in floors and foundations. Each participant will take home greater in-depth knowledge and understanding of how to practically and efficiently implement the use of these software tools in the design process and develop practical workflows for project or component completion.

Tentative Schedule of Course

Module One: Modeling and Setup of Multi-level Building model

- Introduction to software tools utilizing the Finite Element Method (FEM)
- Introduction and description of multistory analysis tool for concrete structures, both conventionally reinforced and post-tensioned, ADAPT-Edge
- Introduction to modeling work-flows from start points of Revit integration, DWG/DXF files or other 3rd party software output
- Revit model integration with ADAPT-Builder and model validation
- Pre-analysis generation of gravity loads, load patterns, elastic combination definition, long-term and cracked deflection combinations, material properties
- Best practices for modeling of components, finite element meshing, tendon modeling/optimization and analysis options
- Modeling mat foundation
- Tributary load take-down feature

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Module Two: Two-Way Elevated Slab / Two-way Transfer Slab Gravity Design

- Analysis of single level and multi-level structure and review results
- Generation of design criteria and creation of design strips for two-way slab systems
- Evaluation of work-flow for two-way slab systems in multistory structures including a transfer/podium slabs
- Design strip execution and extraction of graphical results
- Export of reinforcement to AutoCAD
- Modeling/optimizing post-tensioning for a floor system
- Evaluation of results and preparation of graphical reinforcement and tendons layout for export to AutoCAD

Module Three: Modeling and Setup of Lateral Loads and RC Mat Foundation design

- Introduction to Wind and Seismic load generation wizards
- Modifying load combinations to include lateral loads
- Defining Usage cases and Stiffness Modifiers
- Validating results of lateral loading
- Including lateral loads from multi-level analysis into single-level floor and foundation designs
- Review of drift results

Module Four: Integrated Column design with S-CONCRETE

- Defining design groups for Column sections
- Design options for columns to check size and reinforcement, or optimize
- Live load reduction
- Review of Design Group results
- Review of Individual Member results
- Iterating toward final design based on design results
- Column design reports and schedules

Following the completion of these modules, we will have time for Q & A.

Registration

Enrollment will be strictly limited. [Click Here](#) to register and pay online, or complete this form in its entirety and mail a check or provide bank transfer information as payment to be among the first to receive registration details.

Early Registration: Prior to 30 days of event date: \$1,100

Registration within 30 days of event date: \$1,200

Fee includes breakfast, lunch, and snack for one attendee. Travel and lodging additional.

Add a copy of Dr. Bijan Aalami's book, [Book on Post-Tensioned Buildings: Design and Construction](#) for only \$100 with registration for this workshop. Please indicate this in the shopping cart. Book will be provided at the workshop. This reflects a \$25 discount off US edition or \$35 discount off the International edition. One book per attendee.

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By Mail/Fax:

Mail to: ADAPT-Corporation – Training
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Suite 220
Redwood City, CA 94061

Fax to: (650) 306-2401

Please address any questions to our Sales Team at (650) 306-2403 or sales@adaptsoft.com

A \$100 discount is available if two or more people from the same company attend a workshop in the same location. Discount does not apply to first registrant.

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Attendee Contact and Payment Information: 2016 Workshop	
**Please select one: <input type="checkbox"/> Miami, April 14-15 or <input type="checkbox"/> Houston, April 28-29 or <input type="checkbox"/> Minneapolis, July 21-22 or <input type="checkbox"/> San Francisco, October 6-7	
Name:	Email:
Name:	Email:
Name:	Email:
Name:	Email:
Company:	
Address:	Phone:
Method of Payment:	Transfer funds to:
<input type="checkbox"/> Check – Payable to ADAPT Corporation <input type="checkbox"/> Credit Card (Online Registration only) <input type="checkbox"/> Wire Transfer to ADAPT's bank account	Bank of America, N.A. 400 Woodside Plaza Redwood City, CA 94061 Phone: +1 (650) 324-4433 Account Number: 3250 5995 0569 ABA Routing number for <u>US Electronic Payments</u> : 121 000358 Routing Number for <u>Wire Transfers</u> : 026 009593 International <u>Swift Number</u> : BOFAUS3N

Workshop registrations will be confirmed when payment is made in full. Cancellation requests should be emailed to sales@adaptsoft.com. Cancellation requests received no later than 14 days prior to the start of a workshop will receive a full refund. Cancellation requests received within 14 days of the registered event will receive a 75% refund. No shows the day of an event do not qualify for a refund of registration fees. Registrant substitutions are allowed at any time.