

ARE Seminar

Structure Workshops

August 13 - 15, 2010

M. Miller Gorrie Center
Auburn University, AL 36849



Presented by
The Alabama Board for Registration of Architects,
Auburn University School of Architecture and
Alabama Council AIA

AGENDA

A.R.E. Structures Seminar
Presented by David Thaddeus, AIA, NCARB

Friday

9:00 AM- 7:00 PM

8:30 am - Registration

9:00 am – 1:30 pm

- Seminar Introduction: Gravitational and Lateral Forces
- Highlights of Trigonometry
- Forces: General Definitions
 - Force Resolution
 - Force Addition
- Moments and Couples

RED: COMPRESSION

BLUE: TENSION

GREEN: SHEAR

PURPLE: BENDING

BROWN: DEFLECTION

2:30 pm - 7:00 pm

- Free Body Diagrams
- Equilibrium, Loads and Reactions
- Truss Analysis: Method of Joints
 - Method of Sections

Saturday

8:00 AM- 8:00 PM

8:00 am – 1:30 pm

- Stresses and Strain / Hooke's Law
- Tributary Load Analysis
- Structural Vignette for ARE 4.0 (this presentation is contingent on seminar progress)
- Geometry of Sections
- General Beam Design Theory

2:30 pm - 5:30 pm

- Load, Shear and Bending Moment Diagrams
- General Design of Structural Members in Bending

5:30 pm - 8:00 pm

- Structural Systems Mock Exam (*Please do not miss this session*)

Sunday

8:00 AM- 7:00 PM

8:00 am - 1:30 pm

- Design of Steel Members
- Selection of Structural Systems
- Foundation Systems

2:30 pm – 7:00 pm

- General Lateral Load- Resisting Strategies
- Wind Loads
- Seismic Loads

Hotel Information

There are two hotels close to the campus that we recommend, the Auburn Hotel & Conference Center, (334) 821-8200, located adjacent to the campus at 241 South College Street, Auburn 36830 and the Holiday Inn Express, (334) 502-1090, located a few blocks away at 2013 South College, Auburn 36830. The Auburn Hotel & Conference has agreed to extend a rate of \$105 for those attending the course. Just mention you are with AIA. The Holiday Inn Express has rooms starting at \$88 per night.

Both hotels are expected to sell-out for that weekend as it is move-in weekend for some students. Please call today.

About David Thaddeus, AIA, NCARB

David Thaddeus is currently a Professor of Structures and Architectural Design at the College of Architecture at the University of North Carolina at Charlotte. He was previously tenured at the Gerald D. Hines College of Architecture at the University of Houston. He has been teaching structural topics to students in architecture since 1985. Thaddeus holds degrees in both structural engineering and architecture.

Thaddeus has been teaching review seminars for the Architect Registration Examination (ARE) structural divisions since 1990. Since that time, interest in his seminar has gained momentum and he has presented seminars in over twenty cities in the U.S., four cities in Canada, and in Puerto Rico. Thaddeus has also presented an abbreviated version of the seminar at the AIA National and Regional Conventions since 2003.

ARE Seminar Registration Form

Name: _____

Address: _____

City: _____

State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____

Registration

All Day Session Core Competency Workshops: \$95 (instate)
(workbook, mock exam, lunches and snacks included all 3 days)

All Day Session Core Competency Workshops: \$295 (out-of-state)
(workbook, mock exam, lunches and snacks included all 3 days)

Method of Payment:

Check Visa Master Card American Express

Credit Card #: _____

Ex. Date: _____ Billing Zip Code: _____

Signature: _____

Please mail form to:
Alabama Council AIA • Post Office Box 240757
Montgomery, AL 36124
or Fax to:
(334) 272-7128

Questions?
Call the Council Office at (334) 264-3037
or Email at aia@gmsal.com