

A.R.E. Structural Systems Seminar for ARE 4.0

David Thaddeus, AIA, NCARB

Structural Systems, General Structures, Long Span Structures & Lateral Forces

June 26 – 28, 2009

Kirksey Architecture
6909 Portwest Dr.
Houston, TX. 77024

Please arrive 15-30 minutes early for each session.

Candidates need to bring basic writing supplies (pencils, pens, paper, eraser, etc.), scientific calculator (capable of performing trigonometric functions) and color pencils. In addition the following textbook is recommended but not required: *A Visual Dictionary of Architecture* by Francis D.K. Ching

David J. Thaddeus, AIA, NCARB is a Professor of Structures & Architectural Design at the School of Architecture at the University of North Carolina at Charlotte. He holds degrees in Structural Engineering and Architecture; he has been teaching Structures and Design since 1985. He has also been teaching exam preparation workshops for the Structural Divisions of the ARE since 1989. He has lectured in Houston, Dallas, San Antonio, and Austin, in Texas and in Charlotte, Miami, Oakland, Rochester, Tampa and in Calgary, Ottawa, Toronto, Vancouver in Canada. He also presents an abbreviated version of the seminar at the AIA National Convention each year.

For additional information contact David Thaddeus at Thaddeus@uncc.edu

Friday, June 26, 2009 / 9:00 AM- 7:00 PM

- Seminar Introduction
- Review of Trigonometry
- Forces: General Definitions :
 - Gravitational and Lateral Forces
 - Force Resolution
 - Force Addition
- Moments and Couples
- Free Body Diagrams
- Equilibrium, Loads and Reactions
- Truss Analysis : Method of Joints
Method of Sections

Saturday, June 27, 2009 / 8:00 AM- 8:00 PM

- Stresses and Strain / Hooke's Law
- Tributary Load Analysis
- Geometry of Sections
- General Beam Design Theory
- Load, Shear and Bending Moment Diagrams
- Design of Structural members in Wood and Concrete
- Review of General Structures Mock Exams
(Please do not miss this session)

Sunday, June 28, 2009 / 8:00 AM- 7:00 PM

- Design of steel members
- Selection of structural systems
- Foundation Systems
- General Lateral Load- Resisting Strategies
- Wind Loads
- Seismic Loads
- Lateral forces Mock Exam
- Structural Framing Vignette
(this presentation is contingent on seminar progress)

Registration

Intern, AIA Associate Members \$280.00
Interns, Non-members \$380.00
For AIA Membership Information, contact: Your local Chapter or in Houston call Membership Services at (713) 520.0155

Registration Deadline: June 17, 2009 @ 5:00 pm.

Name _____

Firm _____

Address _____

Telephone _____

E-mail _____

AIA Associate Member No. _____

Payment Total _____

Charge Visa MC AMEX

Exp. Date _____

Acct. No. _____

Signature _____

Check No. Enclosed _____

(Make payable to "AIA Houston")

Remit completed registration and payment to:

AIA Houston: Intern/Associate Network

E-mail: mat@aiahouston.org

Mail: 315 Capitol St., Suite 120

Houston, TX. 77002

Fax: 713-520-5134