



THE STRUCTURAL ENGINEERS ASSOCIATION OF TEXAS

DALLAS CHAPTER

www.seaot.org

President
Vice President
Secretary
Treasurer
Past President

John Turner, P.E.
Asma Momin, P.E.
Jennifer Ray, P.E.
William (Bill) Light
Lucas Ponce, P.E.

September 2015 Newsletter

Meeting Info

Date: September 15, 2015

Doors Open: 11:30 am

Lunch Starts: 11:45 am

Program: 12:00- 1:00pm

Location:

Maggiano's Little Italy
205 North Park Center
Dallas, TX

Pricing:

Members: \$25

Non-Members: \$35

Students: \$10

No Meal: \$0

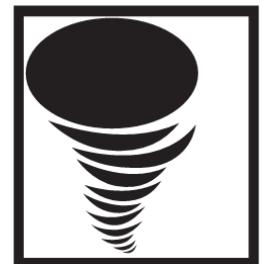
Please register by **Friday,**
September 11, 2015.

[Click Here](#) to register on-line.

2015 IBC Requires Tornado Shelters in All North Texas Schools

Benchmark Harris, PE

The 2015 IBC requires all new schools in North Texas be constructed with tornado shelters designed for 250 mph winds in accordance with ICC 500-2014 "ICC/NSSA Standard for the Design and Construction of Storm Shelters" (with some limited exceptions). This code change was sponsored by FEMA after the Moore, OK tornado deaths but is not funded by the federal government or by the State of Texas. Consequently, it is often desired for these shelters to be multi-purpose spaces that also function as a Gymnasium or a classroom wing, rather than a stand-alone dedicated shelter. This 1 hour presentation will give an overview of the many Structural Engineering requirements of ICC 500. Many of these structural requirements involve close coordination with a Local Emergency Planning Committee, the School District, Architect, Civil Engineer, Mechanical Engineer, Electrical Engineer, Technology Designer and even the Interior Designer. Furthermore, ICC 500-2014 requires both an independent Structural Engineering review and an independent Architectural Review. All this coordination elevates the significance of the structural engineer's role during the planning of the shelter and can require a greater effort.



Benchmark Harris, P.E. is the Director of Engineering with Huckabee and Associates, Inc. Huckabee is a 190 person Architecture and Engineering firm with offices in Austin, Dallas, Fort Worth, Houston, San Antonio and Waco. Huckabee was ranked #1 as the 2015 Best Structural Engineering Firm to Work For in the nation by the Zweig Group. Ben has a Bachelors in Civil Engineering from the University of Texas at Austin and a Masters in Structures and Applied Mechanics from the University of Texas at Arlington. Ben has 18 years of experience as a Structural Engineer. He has designed

many tornado shelters for schools using both the ICC 500 Standard (referenced by the 2015 IBC) as well as

FEMA P-361 Guidelines. These shelters have consisted of various construction types such as cast-in-place concrete, insulating concrete formwork, precast concrete, and hot rolled steel construction. He has worked closely with the Architects at Huckabee to develop structural shelter solutions that fit the specific operational and aesthetic needs of schools. This collaboration has required an adaptation of ICC 500, which was not written with the intent to be a requirement for schools. And, he has worked with many of the members on the ICC 500 Committee to develop this adaptation and assist with development of the upcoming ICC 500 Commentary. To share what he's learned in this process, Ben has given many presentations around the country to Architects, Structural Engineers, Contractors and School Administrators on the application of ICC 500 for schools. He has been actively involved in building code development through The Masonry Society for 12 years. He currently serves as the Chair of the national TMS Disaster Investigation Program. And, he works on numerous TMS Committees, including TMS 402/ACI 530/ASCE 5 and TMS 403 which are both referenced by the IBC for structural masonry design. He was the Chair of the TMS403Design Practices Committee for 5 years.



MORE THAN ARCHITECTS

SEAoT Dallas Chapter Newsletter

President's Message

By John Turner, PE

There has been much discussion lately about licensing of engineers and basic engineering educational requirements. SEAoT has been moving to get separate SE licensing in Texas for three legislative cycles. This year, the effort failed before getting a vote, being held up in committee (as I understand it, by a PE-Congressman.) For the duration of our SE licensing effort, every other engineering group in Texas has opposed it, along with NSPE. As a group, we have not yet convinced our peers and the buyers of our services of the value of this new requirement. Before we spend additional funds lobbying for this measure in the 85th Texas Legislature (2017-2018), we need to build a groundswell if we want SE licensing in the state. Lobbying legislators is not going to make a difference until their constituencies and our peer organizations accept or endorse the move. We have a short window to make this happen. We also have an opportunity to change strategies and accept the NSPE position on Texas SE licensing, which is that one PE license is sufficient, and that buyers of services should be informed consumers and should select engineers who are listed on the TBPE website as STR (structural.) Now is the time to have the discussion about how we want to proceed. Over the next year, we will need to talk about this statewide as individuals, local SEAoT chapters, and members of other organizations. The SEAoT state board has a committee looking at this, too. It is more complicated than it may seem and it is time to reevaluate while we have time.

Today, I read an ASCE note about the NCEES investigation of "masters degree or bachelor-plus-30." ABET previously endorsed such a move and ASCE has a similar position. When ABET took this position years ago, they were the voice in the wilderness. NCEES recently endorsing the move to require more hours for entry-level engineers. As with SE licensure, SEAoT and its members will be called upon to lend their voices to the effort. While we often get caught up in the "more is better" movement, we need to evaluate what we really need in graduate engineers / engineers-in-training. Elsewhere in education, the high cost of college results in nearly insurmountable college debt being accumulated by students. This move potentially adds 25% more to the cost of college and may not make financial sense. Our universities are already overloaded and building more facilities is very expensive. Currently, research grants to engineering colleges results in only 10-50% of the funds being used for actual research, with the rest being taken by the university as a "tax". It may be time to evaluate our wish list for graduates and decide what we really need. It would be tragic if the "E" in STEM became undesirable because of this increased load. You can read the NCEES position statement at: <http://ncees.org/about-ncees/publications/ps-35/>

As you can see, the work of building the future of engineering needs our collective voice, so please stay (or get) involved. SEAoT is here to represent structural engineers, so do what you can to keep the organization strong. Spread the word to prospective members, and encourage members and non-members to attend meetings. And if you have the opportunity, attend the State Conference in Houston on October 22-24.

To renew or your membership or join SEAOT,
visit at www.seaot.org.

Check out SEAoT Dallas Chapter
website at www.seaotdallas.org

SEAoT Dallas Chapter Newsletter

Upcoming Events

Next chapter meetings:

November 17, 2015

Josh Lee

Baylor Stadium

State Conference

October 22-23, 2015

Houston, TX

SEAOT Fort Worth

Pappas Burgers

September 22, 2015

November 17, 2015

Industry Events:

NCSEA Structural Engineering Summit

Red Rock Resort

Las Vegas, NV

Sept 30 – Oct 3, 2015

[Click Here](#)

ASCE 2015 Convention

New York, NY

October 11-14, 2015

[Click Here](#)

ICRI 2015 Fall Convention

Fort Worth, TX

October 14-16, 2015

[Click Here](#)

The Concrete Convention and Exposition

Denver, CO

November 8-12, 2015

[Click Here](#)

Greenbuild 2015

Washington, DC

November 18-19, 2015

[Click Here](#)

Recap of June Meeting

In June, we had a half day seminar on Engineering Tilt-Up by Timothy Wayne Mays, Ph.D, P.E. The morning session included an introduction to Tilt-up including vertical and lateral design and detailing. At lunch, Dr. Mays covered special topics including diaphragms, chords, collectors, expansion joints, and foundation design.

Welcome New Members

Mr. William Figueroa, PE

Structural Engineer

Jaster-Quintanilla

Ms. Kelsey Fort

Student

Walter P Moore

Sponsors

The Dallas Chapter of SEAoT would like to thank all of the advertisers that have contributed to the newsletter. We appreciate your support.

You may support SEAoT by advertising in the newsletter. Space is available to structural engineering firms, vendors and suppliers starting at \$125.00 for one year of advertisement (8 newsletters). If interested, please contact David Parkin at (214) 221-2220 or via e-mail at dparkin@ppoinc.net.

Texas A&M University - Commerce Student Chapter of SEAoT

The TAMU-C student chapter was formally established by the University in September 2015. The Chapter's purpose is to connect the students of the TAMU-C Construction Engineering program with the structural engineering community in north Texas. The TAMU-C faculty advisor is Dr. Debbie Kim.

Student members of SEAoT can participate fully in The Association, including student and local chapter activities and the state SEAoT organization. Students who are members of the campus chapter can apply for SEAoT membership using the link on the seaot.org membership webpage. The state student membership is \$30/year.

Please contact John Turner (jturner@crsi.org or 214-862-6615) if you have questions or would like to sponsor student membership in SEAoT for TAMU-Commerce students.

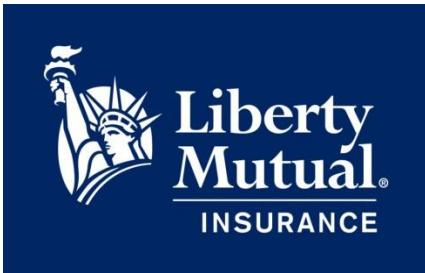
Upcoming Events

We are planning the following events in addition to the regular meetings. More information to follow.

Younger Member Happy Hour - November 2015

Year End Happy Hour - December 2015

SEAoT Dallas Chapter Newsletter



A New Benefits Offering from Liberty Mutual to Members of the Dallas Chapter of the Structural Engineers Association of Texas.

Liberty Mutual Insurance has partnered with the Structural Engineers Association to offer you savings of up to 10% off auto and home insurance. With this excellent value you'll receive the quality coverage, expert advice, and caring service Liberty Mutual is known for across America.

The benefits we offer also include:

Discounts for multiple policies, multiple vehicles, car and home safety features and more.

Rates guaranteed for 12 months

Accident and Loss Forgiveness

Emergency Home Repair Service

24-Hour Claims Assistance: Online, by phone or via Liberty Mutual Mobile.

Convenient Automatic Payment Options

I'll take the time to explain your options in clear terms and recommend the best coverage for your specific situation.



Linda Parker

Sales Representative | Rowlett Branch

Auto | Home | Life | Annuities | Voluntary Benefits

Liberty Mutual Insurance Co. | 5701 President George Bush Hwy. Suite 150 Rowlett, TX 75089

Office: 972-202-9854 ext 08663 | Cell: 214-557-9310 | Customer Service: 972-202-9854



TEXAS STRUCTURAL STEEL INSTITUTE

SUPPORTING AND PROMOTING THE
STRUCTURAL STEEL INDUSTRY SINCE 1928

TSSI-TEXAS.ORG



- Structural Composite Upgrades
- Product Specific Structural Engineering
- Retrofits
- Blast Mitigation
- Crack Injection
- Concrete Tank Repair
- Coatings
- Secondary Containment
- Corrosion Repair/Prevention
- Concrete Repair
- Flood Mitigation

Cory Howard
cory@fiberwrap.com
VP Engineered Solutions

Cell 817-528-2358
Fax 817-424-3269
www.fiberwrap.com

SEAoT Dallas Chapter Newsletter

Civil • Structural • Survey • Forensics • IPD

RLG

Raymond L. Goodson Jr. Inc.

Consulting Engineers

5445 La Sierra, Suite 300, LB 17

Dallas, Texas 75231

www.rlginc.com

P: 214 / 739-8100

F: 214 / 739-6354

Formerly PCA Engineering Software Group

Structure Point

CONCRETE SOFTWARE SOLUTIONS

www.StructurePoint.org

847.966.4357

CRSI

Concrete
Reinforcing
Steel
Institute

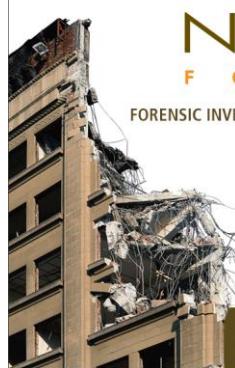
John B. Turner, CSP, PE

Greater Southwestern Region Manager

214-862-6615 (cell)

jturner@crsi.org

NELSON
F O R E N S I C S



FORENSIC INVESTIGATION, CONSULTING, AND EXPERT WITNESS SERVICES

SPECIALIZING IN:

- Forensic Engineering
Civil/Structural/Mechanical/Electrical
- Forensic Architecture
- Chemistry & Environmental Science
- Cost Estimating and Appraisal

1.877.850.8765

www.nelsonforensics.com

RISA
TECHNOLOGIES

The Most Popular Analysis Software in the U.S.

www.risatech.com

800.332.RISA

Clay Broyles
Sales Representative
N. TX & Oklahoma

The Euclid Chemical Company
1835 Upper Montague Road
Bowie, TX 76230

cbroyles@euclidchemical.com
Cell: 318.471.1131
Fax: 855.382.5436

www.euclidchemical.com

ISO 9001 Certified UL File #A3129



EUCLID CHEMICAL

An RPM Company

James Robbs
Manager Construction Products
Texas, Oklahoma, & Louisiana

The Euclid Chemical Company
3308 Brookhaven Club Dr.
Dallas, TX 75234

jrobb@euclidchemical.com
Cell: 214-325-4936
Fax: 855-382-5436

www.euclidchemical.com

ISO 9001 Certified UL File #A3129

1

Structurally Sound Since 1960



www.halff.com

SEAoT Dallas Chapter Newsletter



**THE FIRST
AND ONLY
HAS ARRIVED**
ICC-ES Recognizes RAM JACK®

The [first] to complete and receive an evaluation service report per AC358.

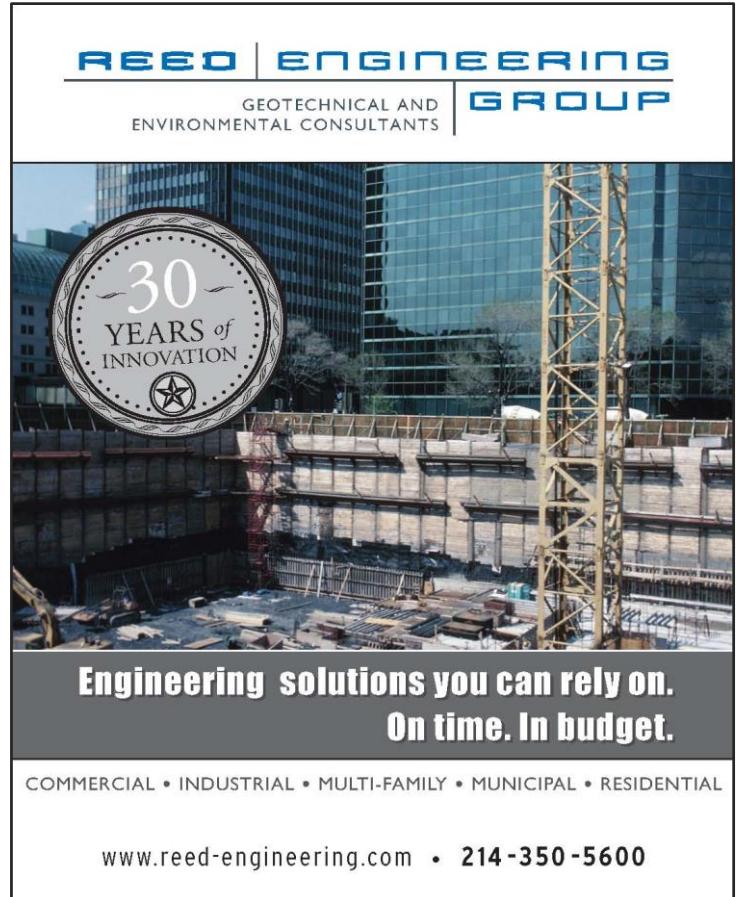
8,600 ft. lb. Rating
Patent# 6514012
6531805
7024827
7073896
Deep Driven Steel Pile
Helical Pile

QR code: ESR-1854
IBC Compliant
Scan this QR code to read the full ESR-1854 article.

ICC ES™

800.969.2255
ramjack.com

RAM JACK



REED ENGINEERING GROUP
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

30 YEARS of INNOVATION

Engineering solutions you can rely on.
On time. In budget.

COMMERCIAL • INDUSTRIAL • MULTI-FAMILY • MUNICIPAL • RESIDENTIAL

www.reed-engineering.com • 214-350-5600

Construction

William (Bill) Light
Senior Project Sales Representative

Tel: 972-567-9430
Fax: 972-392-7444
Tech Service: 800-933-7452 (SIKA)
light.bill@sika-corp.com
www.sikaconstruction.com

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Personal Office:
6621 Hillwood Lane
Dallas, TX 75248



SEAOt Dallas Chapter Newsletter

Chapter Positions:

President	John Turner, PE	(214) 862-6615	jturner@crsi.org
Vice President	Asma Momin, PE	(469) 206-7100	asma798@sbcglobal.net
Secretary	Jennifer Ray, PE	(972)403-5995	jennifer.ray@hilti.com
Treasurer	William (Bill) Light	(972) 567-9430	light.bill@us.sika.com
Past President	Lucas Ponce, PE	(469) 310-2860	lponce@ponce-fuess.com
Chapter Director (2011-2013)	David Parkin, PE	(214) 358-0174	dparkin@ppoinc.net
Chapter Director (2012-2014)	David Barrett, PE	(214) 221-2220	dbarrett@rlginc.com
Chapter Director (2013-2015)	Brad Russell, PE	(214) 739-8100	brad@brarchitects.com
Membership	Kyle Millemom, EIT	(214) 522-3900	kmillemom@pagethink.com
Technical Activities	Open	(214) 862-6615	jturner@crsi.org
Web Page, Computer App.	Open		
Newsletter Editor	Jennifer Ray, PE	(214) 537-6738	jennifer.ray@hilti.com
Advertisement	David Parkin, PE	(214) 221-2220	dparkin@ppoinc.net
Hall of Honor	Joseph Dowd	(214) 740-6200	jdowd@walterpmoore.com
Scholarship	Kerry Lee, PE	(469) 429-9000	klee@architecturalengineers.com
State Directors from the Chapter	John Turner, PE Lucas Ponce, PE Bradford Russell, PE (alternate)		

Selected State Positions:

State President	Lee Walden, PE
President Elect	Kerry Lee, PE
Secretary	William (Whit) Smith, PE
Treasurer	Robert Lanser, PE
Past President	Lewis Shrier, PE
Executive Director	Liz Stansfeld



Dallas Chapter
P.O. Box 23
Addison, TX 75001

September 2015 Newsletter