

STRUCTURAL ENGINEERS ASSOCIATION OF TEXAS

ANNUAL STATE CONFERENCE

OCTOBER 26 -27, 2017



HOLIDAY INN MARINA
CORPUS CHRISTI

ADVANCE PROGRAM

SEAoT ANNUAL CONFERENCE - SPONSORS

PLATINUM SPONSORS



SILVER SPONSORS



BRONZE SPONSOR



GOLF SPONSORS



ABOUT THE CONFERENCE

This year's SEAO_T State Conference will be hosted in Corpus Christi by the SEAO_T Corpus Christi Chapter. This premier technical conference is a "must attend" for SEAO_T members as well as other professional Structural Engineers practicing in Texas. The Conference provides an unparalleled opportunity to learn about new technology, materials and applications from an impressive line up of speakers. Delegates will also have the opportunity to meet with leading vendors and network with other professionals. This year's attendees can expect to earn up to **eleven Professional Development Hours of continued education credits** during the Conference.

This year's venue, the Holiday Inn Marina overlooking the Corpus Christi Bay, is easily accessible from major freeways and less than 15 minutes from the airport. The hotel is offering a very attractive rate of \$109 a night (including parking). Plan on staying on site - and book early.

The Conference will begin at 1:00 pm on Thursday (following the Golf Tournament). The evening Icebreaker Social will begin around 5:30 pm in the Exhibit Hall. Delegates are strongly encouraged to attend this event, which offers an excellent opportunity to network with vendors and colleagues.

Friday will include a full day of technical presentations, awards and a lunch keynote address. The Conference will conclude on Friday evening following the Exhibitor raffle.

GOLF

Golfers are invited to attend the Golf Tournament on the morning of October 26. (See adjacent panel.)

EXHIBITORS

The Holiday Inn's attractive layout includes exhibit space contiguous to the technical sessions and an exhibit area designed to encourage delegates to circulate and "hang out" between sessions. Breakfast, the Icebreaker Social and the refreshment breaks will be held in the Exhibit Hall. There will also be an exhibit traffic building program with a raffle and an attractive give away.

Exhibitors may start setting up their booths at midday on Thursday afternoon. Exhibits may dismantle after the final refreshment break on Friday afternoon.

EARLY REGISTRATION

SEAO _T Members	\$250.00
Non SEAO _T Members	\$300.00
Students	\$125.00
Companion Program	\$125.00
Golf (per player)	\$125.00

GOLF TOURNAMENT

This year's four-person Florida Scramble golf tournament will be held on Thursday October 26 at:

NorthShore Country Club
801 East Broadway
Portland TX 783774

This shoreline course is one of the premier golf courses in Texas. Terrific views and a championship links-style course with well-groomed fairways and greens makes NorthShore Country Club both challenging and enjoyable.

The cost is just \$125.00 per player. The tournament will start at 7:30 am and conclude in time for players to attend the conference. Breakfast, lunch and golf carts are all included in the registration fee.

There will be awards for:

- Closest to the pin
- Longest Drive
- First, second and third places

Please combine your golf registration with a golf sponsorship. Golf sponsors will all be recognized at the Conference, in the SEAO_T journal and on the website.

SPONSORSHIPS

Please support the Conference and the Association with your generous sponsorship.

Conference Sponsorships

Event Sponsor: \$5,000, includes two passes and a full page advertisement in the Conference program.

Platinum: \$3,000, includes two passes and a full page advertisement in the Conference program.

Gold: \$2,000, includes one pass and a full page advertisement in the Conference program.

Technical Program: \$1000, includes one pass and a half page advertisement in the Conference program.

Silver: \$750, includes a half page advertisement in the Conference program.

Bronze: \$300, includes recognition before and during the conference.

Golf Sponsors

Lunch - \$500

Closest to the Pin - \$250

Longest Drive - \$250

Hole Sponsor - \$100 - includes Tee Box sign

To become a sponsor, contact Liz Stansfeld at (512) 301-2744, or go to <http://www.seaot.org>

THURSDAY OCTOBER 26, 2017

**EARLY REGISTRATION RATES END
SEPTEMBER 30, 2017**

- 7:00 AM Golf Tournament (NorthShore Golf Club)
- 10:00 AM Exhibit Set Up
- 11:30 AM Conference Registration Opens

Technical Program

- 1:00 PM **Welcome, Opening Remarks and General Meeting**
- 1:40 PM **NTA Engineering & SIPA Engineering Design Guide - Structural Insulated Panels** (1 pdh)
Eric Tompos, P.E., S.E., C.B.O., VP/Director of Compliance, NTA
- 2:30 PM **The Evolution of Storm Shelters - An Idea to An Industry** (1 pdh)
Dr. Ernst W. Kiesling, National Storm Shelter Association, Texas University
- 3:20 PM Refreshment Break
- 3:50 PM **Industrial Strength Insulated Concrete Forms (ICFs)** (1 pdh)
Randy Daniels, Foxblocks
- 4:40 PM **Mass Wood Timber Construction - Product, Performance and Design** (1 pdh)
Sherry Mundell, P.E. South Central Technical Advisor, WoodWorks
- 5:30 PM **Icebreaker Social** - Drinks and Refreshments - with Sponsors and Exhibitors in the Exhibit Hall

FRIDAY OCTOBER 27, 2017

- 7:15 AM Conference Registration Opens
- 7:15 AM Continental Breakfast with Exhibitors in Exhibit Hall
- 9:00 AM Companion Program Departs from Holiday Inn Marina

Technical Program

- 8:00 AM **T.R. Higgins**
Effective Bracing of Flexural Members and Systems in Steel Buildings and Bridges (1 pdh)
Professor Todd Heldwig, P.E.
- 8:50 AM **The Profit: Sage Wisdom on SE Business and BIM** (1 pdh)
Will Ikerd, P.E., Ikerd and Associates
- 9:40 AM Refreshment Break with Exhibitors
- 10:20 AM **Legislative Overview and Licensure** (1 pdh)
Eric Woomer and Eric Wright, Congress Avenue Partners
- 11:10 AM **Design of Transfer Elements with Post Tension Systems** (1 pdh)
Lance Osborne, P.E. Director of Sales, Structural Technologies
- 12:00 AM Visit with Exhibitors
- 12:20 PM **Lunch, Awards and Keynote Address - NCSEA - Focused on the Future** (1 pdh) -
Al Spada, Executive Director, NCSEA
- 1:50 PM Visit with Exhibitors
- 2:20 PM **Texas Board of Professional Engineers - Professional Practice Update and Ethics** (1 pdh)
Dr. Lance Kinney, P.E., Texas Board of Professional Engineers
- 3:10 PM Refreshment Break with Exhibitors
- 3:50 PM **Practical Code-Compliant Detailing for Mid Rise Wood Structures** (1 pdh)
Sherry Mundell, P.E. South Central Technical Advisor, WoodWorks
- 4:40 PM Raffle
- 5:00 PM Conference wrap up

TECHNICAL PROGRAM THURSDAY AFTERNOON

The technical program will begin at 1:00 pm on Thursday October 26, and will conclude at 5:00 pm on Friday, October 27. There will be ten technical presentations, as well as a lunch presentation on October 27.

Attendees can expect to earn up to eleven Professional Development Hours during the Conference

WELCOME AND OPENING REMARKS

*Javier Carlin, P.E., SEAoT State President
Lew Shrier, P.E., Conference Chair*

NTA ENGINEERING & SIPA ENGINEERING DESIGN GUIDE STRUCTURAL INSULATED PANELS

Eric Tompos, P.E., S.E., C.B.O., VP/Dir. of Compliance, NTA

Prescriptive requirements for the use of Structural Insulated Panels (SIPs) were introduced in the 2007 Supplement to the 2006 International Residential Code (IRC). However, the code does not provide guidelines for engineered SIP systems. To fill this gap, the Structural Insulated Panels Association (SIPA) undertook the development of the *Structural Insulated Panel Engineering Design Manual*, which was released for public review in 2016. This presentation provides an introduction to this design resource and an overview of the limit states and design conditions that are addressed using the design manual. The presentation will cover:

1. The scope, purpose and layout of the SIPA Structural Insulated Panel Engineering Design Manual.
2. Some specific limit states addressed in the manual.
3. Design situations that may be addressed by the design manual.

About the Speaker

Eric Tompos, is the Executive Vice President of NTA, Inc. He is a licensed civil and/or structural engineer in all 50 states. Eric holds Bachelor of Science and Master of Science degrees in Civil Engineering from Purdue University and is recognized as a Certified Building Official and Master Code Professional by the International Code Council. He has extensive experience in the design and construction of factory-built structures, building components, materials testing, and quality assurance. Eric's current responsibilities include structural design, code compliance of factory-built structures, development of policies relating to NTA's building product certification activities and solving code compliance issues relating to new and innovative building products.

THE EVOLUTION OF STORM SHELTERS - AN IDEA TO AN INDUSTRY

*Dr. Ernst W. Kiesling, National Storm Shelter Association,
Texas University*

Dr. Kiesling will discuss the significance of some of the major weather events that have demonstrated the need for storm protection. His presentation will also cover standards development and upgrades, code expansions such as ICC 2015, code adoptions by states and jurisdictions, and the increased professionals' participation in design. Frontiers in design and organizational structuring in NSSA will be presented.

About the Speaker

Dr. Kiesling served as Professor of Civil Engineering at Texas Tech for 50 years, 20 as Chair and seven as Associate Dean of Engineering. He was instrumental in developing the concept of the above-ground storm shelter in the early 1970s and has subsequently nurtured quality design criteria and developments. He has been referred to as the 'Father of the Safe Room'. He has served as Executive Director of NSSA since its formation in 2001.

REFRESHMENT BREAK WITH EXHIBITORS

INDUSTRIAL STRENGTH INSULATED CONCRETE FORMS

Randy Daniels, Business Development Manager, Foxblocks

The presentation will provide an overview of Insulated Concrete Forms, their history, design, construction and environmental benefits. Mr Daniels will cover the different types of ICFs, competitive analysis, ICF code approvals and testing. His presentation will include examples of where ICFs work best as well as applications examples of where they are not recommended, along with an overview of sample projects.

His talk will also focus on the building process, including design considerations to maximize efficiency, high-performance insulated concrete building envelopes, benefits to builders, owners and occupants, installation and square-foot costs. He will conclude with a summary of the ICFs' contribution to environmentally sustainable "green" construction.

About the speaker

Randy Daniels is Western United States Business Development Manager for Fox Blocks, a division of Airlite Plastics Corporation He has 18 years of ICF technical sales experience and over 30 years of experience in the concrete industry. His background includes CA C-8 Concrete Contractor, Ready-Mix Concrete Batchman & Dispatcher, Ready-Mix Technical Support and Ready-Mix Concrete Regional Sales.

Continued over page

TECHNICAL PROGRAM

THURSDAY AFTERNOON

INDUSTRIAL STRENGTH INSULATED CONCRETE FORMS

About the speaker (continued from page 5)

He has delivered concrete consulting services as subject matter expert for technical and sustainable applications.

In 1998 Randy was designated by the NRMCA and Southern California Ready Mix Association as a presentation "point-man" responsible for introducing Insulated Concrete Forms to the Southern California architectural and engineering community. He developed a passion for this Green Building movement and in 2000 joined the ICF industry full time as an ICF product regional sales and business development manager. Randy has delivered numerous ICF Installer Training Seminars, and ICF AIA CEU presentations. He has been featured on national broadcast media and his video productions are a staple of the ICF You Tube library of knowledge. He is also an accredited ICF trainer/presenter for numerous institutions and associations.

His efforts over the last 18 years have resulted in environmentally friendly ICF construction specified for residential, commercial, military, institutional, federal, municipal, and public works buildings throughout the nation. Projects include schools, banks, megaplex theatres, churches, military, university, multi-story hospitality and production housing to the first LEED Certified public school in CA and two LEED Platinum results; he has developed and delivered over 9.2 million square feet of sustainable and successful ICF wall construction.

MASS WOOD TIMBER CONSTRUCTION - PRODUCT, PERFORMANCE, DESIGN

Sherry Mundell, P.E., South Central Texas Technical Advisor, WoodWorks

Due to their high strength, dimensional stability and positive environmental performance, mass timber building products are quickly becoming materials of choice for sustainably-minded designers. This presentation will provide a detailed look at the variety of mass timber products available, including glue-laminated timber (glulam), cross laminated timber (CLT), nail laminated timber (NLT), heavy timber decking, and other engineered and composite systems. Applications for the use of these products under modern building codes will be discussed, and examples of their use in U.S. projects reviewed. Mass timber's ability to act as both structure and exposed finish will also be highlighted, as will its performance as part of an assembly, considering design objectives related to structural performance, fire resistance, acoustics, and energy efficiency. Other topics will include detailing and construction best practices, lessons learned from

completed projects and trends for the increased use of mass timber products in the future.

Sherry Mundell will

- Identify mass timber products available in North America and consider how they can be used under current building codes and standards.
- Review completed mass timber projects that demonstrate a range of applications and system configurations.
- Discuss benefits of using mass timber products, including structural versatility, prefabrication, lighter carbon footprint, and reduced labor costs.
- Highlight possibilities for the expanded use and application of mass timber in larger and taller buildings.

About the speaker:

Sherry received her BS in Architectural Engineering from the University of Texas at Austin in 1999 and has been an active structural design consultant for 12 years. Her primary experience includes structural calculations, design, construction document preparation, and construction administration for new and existing commercial buildings. Her project experience includes hospitals, medical office buildings, schools and universities, movie theaters, art and natural history museums, aquatic facilities, a semi-conductor manufacturing plant, telecommunications towers, cooperative student housing, retail shopping developments, restaurants, banks, hotels, and mid-rise and high-rise multi-family buildings. Sherry is a licensed Professional Engineer in the State of Texas and a member of the Structural Engineers Association of Texas.

ICEBREAKER SOCIAL

Delegates should plan on attending the Icebreaker reception that will follow immediately after the conclusion of the last session on Thursday. This is a great opportunity to catch up with old friends and acquaintances, as well as meeting with the exhibitors and sponsors who make this conference possible.

Around 40 exhibitors will be at the Conference and will be available to demonstrate and discuss their technology, services, products and materials with delegates. Attendees are encouraged to take advantage of this evening event to meet with a very wide range of leading vendors from across the United States.

Please consider booking a room at the hotel even if you live in Corpus Christi. This is a very beautiful facility overlooking the bay, and is close to the Marina and many excellent restaurants. Stay the night and you will be refreshed and ready for the full schedule and early start planned for Friday. Or take advantage of the very attractive room rate of just \$109 a night and plan on staying over the weekend.

TECHNICAL PROGRAM

FRIDAY MORNING

AISC - T.R. HIGGINS AWARD EFFECTIVE BRACING OF FLEXURAL MEMBERS AND SYSTEMS IN STEEL BUILDINGS AND BRIDGES

Professor Todd Helwig, Texas University, Austin

Professor Todd Helwig is the 2017 AISC T.R. Higgin's award recipient. His presentation will focus on the stability of flexural systems in steel building and bridges with a particular emphasis on bracing requirements. His lecture highlights the results from large-scale experiments and parametric finite element analysis on flexural members. He will discuss the many factors that impact the effectiveness of torsional bracing systems. Professor Helwig will also provide an overview of the system buckling mode for I-shaped girder systems, which is a relatively new failure mode of which the profession has become aware over the past 15 years. He will also cover improved details, such as the use of split pipe stiffeners and lean-on bracing.

About the speaker

Professor Todd Helwig is currently in his 23rd year of teaching and conducting research in structural engineering. He currently holds the J. Neils Thompson Teaching Fellowship in Civil Engineering at the University of Texas at Austin (UT Austin). He joined the faculty at the UT Austin in 2005 after teaching at the University of Houston for 11 years. His area of interest is the design and behavior of steel structures, with an emphasis on structural stability and bracing. He has co-developed and taught a number of short courses on the fields of structural stability and bracing on behalf of the Structural Stability Research Council (SSRC), the American Institute of Steel Construction (AISC), and the National Highway Institute. Since 1994 more than 5000 engineers have attended the short courses that he has co-developed and taught. He has conducted a wide range of research studies on the design and behavior of steel buildings and bridges. Results from the past studies have led to design methodologies for bracing systems for steel box girders as well as new details for stability bracing systems for I-shaped sections. He has also developed recommendations for cross-frame and diaphragm systems that

THE HOTEL

Overlooking the Corpus Christi Bay and within easy walking distance of numerous bars and restaurants along the bayfront, the Holiday Inn Marina offers luxury accommodation and spectacular view of the bay, for the very affordable price of just \$109 a night.

Please make your hotel reservations early using the link on the web site at: www.seaot.org/state_conference.cfm

rely on lean-on bracing to help reduce the number of fatigue sensitive braces on steel bridges. His research has been recognized with several awards, including the ASCE Collingwood Research Prize, the ASCE Moisseiff Award, and the ASCE Shortridge Hardesty Award. He was recognized by TxDOT with a top innovation award in 2005 for work relating to lateral bracing of bridge girders by permanent metal deck forms. In 2010, his work on stability bracing systems in steel bridges was recognized at the North American Steel Construction Conference with an AISC Special Achievement Award. He has served on a number of technical committees for AISC, ASCE and SSRC and is currently the Chair of SSRC.

THE PROFIT! SAGE WISDOM ON SE BUSINESS AND BIM

Will Ikerd, P.E. Ikerd and Associates

Attendees will learn how to increase their profits while lowering their risks. The session will present information on thinking beyond being a sub-consultant and how engineers can bring true value by delivering the structure as early as possible. One focus of the session will be on understanding the critical path to process. It will include lean processes for the structural engineering office with BIM using the BIM Forum Level of Development of Specification as a tool to manage risk, define scope, and secure profits. The importance of understanding BIM coordination and laser scanning will be covered as tools for successful project outcomes. This session will provide an update on current trends and an in-depth review of the new BIM Forum LOD Specification as it relates to structure. The session will discuss the standard of care and what is currently considered industry standard, as well as discussions on BIM Execution plans and how they should include reference to the BIM Forum LOD Specification.

About the Speaker

Will Ikerd—PE, CM-BIM, LEED AP—is principal at IKERD Consulting, an internationally recognized consulting group in buildings, civil, and industrial construction markets specializing in using Building Information Modeling (BIM)-enabled Virtual Design and Construction (VDC). He serves as an expert consultant in design and construction cases involving BIM and VDC processes. He is currently on the board of directors of the national BIM Forum, and was past chair of the Structural Engineering Institute's national BIM Committee. He has won the Best Speaker award twice from the International Structures conference, and he was named Structural Engineering magazine's "Top 10 Leaders in Structural Engineering," Glass Magazine's "Top 30 under 40," and Building Design & Construction magazine's "Top 40 Under 40." He has served as PCI's BIM consultant in that industry's innovation initiatives.

TECHNICAL PROGRAM FRIDAY MORNING

REFRESHMENT BREAK WITH EXHIBITORS

LEGISLATIVE OVERVIEW AND LICENSURE

Eric Woomer and Eric Wright, Congress Avenue Partners

Lobbyists Congress Avenue Partners will discuss SE Licensure in Texas including SEAoT's past, current and future strategies. They will highlight the importance of "grass-roots" involvement and actions that SEAoT members can take to become more involved in the process of securing SE licensure.

Eric and Eric will also touch on interim activities of which they are aware that may affect Structural Engineers practicing in Texas and which is likely to come up in the next legislative session. Members will be encouraged to ask questions.

About the speakers

Eric Woomer, Principal

Eric Woomer is a governmental affairs consultant and lobbyist with extensive senior leadership experience advising legislators at the state and national level, as well as Fortune 100 companies. He is well-regarded for his ability to research, analyze and synthesize issues quickly to design innovative but pragmatic public policy.

Described as "a steady hand in Capitol circles," Woomer has served as Chief of Staff and Legislative Director to three Texas state senators, both Republicans and Democrats, representing areas as widely diverse as the Texas Panhandle and the Houston Ship Channel. Additionally, Woomer served as Press Secretary for legendary U.S. Congressman J.J. "Jake" Pickle and as a policy advisor to the senior U.S. Senator from Texas, Kay Bailey Hutchison.

Woomer offers his clients legislative tactical guidance and policy expertise, as well as media management skills and compelling collateral writing, including speeches, legislative testimony, press & communications materials, newsletters and white papers. He has also overseen PAC creation and fundraising activities, and coordinated grassroots efforts to aid policy development efforts. Woomer and his associates have twice been ranked 7th among corporate in-house lobby teams and lobby partnerships in Capitol Inside magazine's Lobby Power Rankings.

Woomer holds a Masters of Public Affairs from the University of Texas' Lyndon Baines Johnson School of Public Affairs, where he also received the LBJ Award for Academic Excellence, presented annually by former First Lady "Lady Bird" Johnson to the school's top graduates. A 1988 National Merit Scholar, Woomer received a B.A. from the University of Texas in 1993.

Eric Wright works with members and staff of the executive and legislative branches. He uses his extensive political relationships combined with his knowledge of the legislative appropriations, regulatory, and public affairs processes, have given him a solid reputation of creating competitive advantages for a variety of corporations and associations.

Wright served as Chief of Staff to former Lt. Governor Bill Ratliff. Wright successfully coordinated the office's interactions with members of the Texas Senate, the Texas House of Representatives, the Governor's office, and all of Texas' nearly 250 executive branch agencies. With a staff of 45 professional and administrative employees, he managed issues ranging from appropriations to education, natural resources to economic development and from transportation to taxes.

From 1996 to 2000, Wright served as the committee director for the Texas Senate Finance Committee. Wright served two legislative sessions as committee director in which the legislature adopted two state budgets, the 1998-99 biennial budget of \$87 billion and the 2000-01 budget of \$98 billion.

In the private sector, Eric Wright has served as a legislative consultant for several of the country's largest corporations, including Motorola, IBM, SAS, Sempra Energy, Texas Instruments and the Huntsman Corporation. Wright's clients have benefited from his public service experience as he represented their interests in the Texas legislative process.

DESIGN OF TRANSFER ELEMENTS WITH POST-TENSIONING

Lance Osborne, P.E., Structural Technologies

The presentation will cover recent advances in post-tensioning technology, as well as post-tensioning design techniques for long span beams, girders, plates and unique structural elements for durability. Using recent case studies our experts will expand on the advantages of post-tensioning as a design solution for buildings and how customized post-tensioning design applications have solved a variety of construction issues.

About the speaker

Lance Osborne holds a bachelor's and master's degree in Civil and Structural Engineering, and is a licensed professional in 21 states and three Canadian provinces. He is involved in numerous professional associations including ACI, PCI and NPCA. In addition he is a member of PTI and serves on the DC-20 Building Design committee. Lance has over 18 years of industry experience and is currently the Director of Sales for Post-Tensioning Solutions for STRUCTURAL TECHNOLOGIES / VSL, a Structural Group Company.

VISIT WITH EXHIBITORS

TECHNICAL PROGRAM

FRIDAY LUNCH

AWARDS

NCSEA: FOCUSED ON THE FUTURE

Alfred Spada, NCSEA Executive Director

This presentation will examine the current state of the National Council of Structural Engineers Associations (NCSEA) and the benefits the association provides SEAoT members. The discussion will then shift to cover how NCSEA is working with the state Structural Engineering Associations (SEAs) to help prepare the Structural Engineering profession for the future, including covering on SE Licensure.

About the speaker:

Alfred (Al) Spada joined the National Council of Structural Engineers Associations (NCSEA) as the Executive Director in July 2016. Prior to joining the NCSEA, Al spent 19 years with the American Foundry Society, serving most recently as its Vice President-Business Development; Director of Marketing, Communications & Public Relations; and Publisher/Editor of its three trade magazines and its journal. Spada is a graduate of Northwestern University and holds an MBA from the University of Colorado.

VISIT WITH EXHIBITORS

FRIDAY AFTERNOON

TEXAS BOARD OF PROFESSIONAL ENGINEERS - PROFESSIONAL PRACTICE UPDATE AND ETHICS

Lance Kinney, P.E., Executive Director, Texas Board of Professional Engineers

The presentation will cover updates on Board rule changes that have occurred over the last year, as well as general updates on initiatives the Board is working on, information on enforcement statistics, and the engineering Code of Conduct.

About the speaker:

Dr. Lance Kinney, P.E., Executive Director, Texas Board of Professional Engineers

The presentation will cover updates on Board rule changes that have occurred over the last year, as well as general updates on

initiatives the Board is working on, information on enforcement statistics, and the engineering Code of Conduct.

About the speaker:

Dr. Kinney is the Executive Director of the Texas Board of Professional Engineers. He has been with the Board for over fifteen years and is responsible for all agency programs and activities, including legislative, rule, budget, and policy issues, and represents the Board at statewide, national, and international functions. He also gives licensing and ethics outreach presentations all over the state at universities, companies, and associations.

Prior to working at the Board, he worked in the semiconductor industry for 11 years. He has a Bachelors Degree in Physics from the University of Texas, a Masters Degree in Industrial Technology from Texas State University, and a Ph.D. in Curriculum and Instruction focused on Learning Technologies from the University of Texas. He has lectured as an adjunct professor in the Engineering and Technology Department at Texas State University and Electronics and Advanced Technologies Department at Austin Community College.

REFRESHMENT BREAK WITH EXHIBITORS

COMPANIONS' PROGRAM

The Companions' Program has been designed to showcase the very best that Corpus Christi has to offer.

The day will begin with a visit to the **Texas State Aquarium** where attendees can enjoy watchingotters at play, feed stingrays, marvel at an abundance of sea creatures and see some unusual demonstrations.

The group will lunch at **Hesters** in the Museum before heading over the bridge to **Harrison's Landing** for a Bayfront Cruise.

The day's final destination will be **Antique Lane**, an eclectic row very unusual shops selling vintage clothes, antiques, objet d'art, jewelry and bric-a-brack, much of it offered at very reasonable prices. We challenge anyone to be able to visit Antique Lane without coming away with unusual treasure or two.

The group will be dropped back off at the Holiday Inn Marina around 5:00 pm.

Cost of the companions' program is \$125.00 Space is limited so please book early.

EARLY REGISTRATION

Register now for the Conference and take advantage of the early registration discount rate of just \$250 for SEAoT members and \$300 for non members. Registration rates will increase on October 1, 2017.

Go to: <http://www.seaot.org>

TECHNICAL PROGRAM

FRIDAY AFTERNOON

PRACTICAL, CODE-COMPLIANT DETAILING FOR MID-RISE WOOD STRUCTURES

Sherry Mundell, P.E., South Central Texas Technical Advisor, WoodWorks

With an increase in mid-rise wood-frame buildings, more designers are seeking information on code-compliant and constructible detailing. Many are unsure of the code's requirements for details, specifically at the intersection of rated assemblies and where structure and fire protection meet. This presentation will focus on common detailing issues and areas of misunderstanding—including fire-resistance rating continuity, allowable uses of wood framing in shaft and fire walls, and fire safety principles associated with the intersection of two rated assemblies. Mid-rise wood-frame opportunities and code-specified building sizes will also be reviewed, followed by discussion of detailing code requirements, code compliance, and rationale for approval with an emphasis on constructability and practicality.

The presenter will:

- Discuss allowable construction types, occupancies, and building heights and areas for wood-frame mid-rise construction per the International Building Code
- Examine a variety of floor-to-exterior wall details for use in wood-frame, Type III construction and discuss code compliance paths and approval rationale for each.
- Discuss code-permitted shaft wall and fire wall construction materials and fire-resistance requirements, and review common details for each.
- Consider code provisions for corridor and balcony fire-resistance protection, and identify details that accommodate these requirements while maximizing wood use.
- The use of wood-frame construction for mid-rise projects is innovative in its ability to achieve multiple, simultaneous objectives. Wood is a code-compliant solution to the issue of how to cost-effectively increase density while creating vibrant urban environments. A renewable resource, it can also help meet the sustainability requirements of even the most stringent green building rating systems, while offering the additional benefit of carbon sequestration.
- The innovative use of wood is in fact changing the skyline. Increasingly, five- and six-story wood buildings are rising up among traditional concrete and steel shells as designers and developers embrace timber's vast potential for lower costs, faster installation, and a significantly lighter carbon footprint. Through the use of case studies, this session will showcase recently completed projects that illustrate this

CONFERENCE TIMETABLE AT A GLANCE

Thursday October 26

- 7:00 a.m. - Golf Tournament - Falcon Head
- 12:00 p.m. - Exhibitor Set up
- 12:00 p.m. - Registration Opens
- 1:00 p.m. - Technical Session Begins
- 5:30 p.m. - Icebreaker Social in Exhibit Hall

Friday October 27

- 8:00 a.m.- 5:00 pm Technical Sessions
(9:00 a.m. - Companions' program)
 - 12:30 p.m. - Lunch with exhibitors and
- Key Note Speaker Presentation
 - 4:00 p.m. - Exhibitor booths dismantle
 - 4:40 p.m. - Exhibitor raffle drawing
 - 5:00 p.m. - Conference Wrap up
- Times are tentative and subject to change*

trend. Topics will include current code allowances for mid-rise wood buildings, design strategies and environmental performance. Discussion will also touch on the international trend toward even taller wood buildings, made possible by emerging research and the development of advanced wood products and technologies.

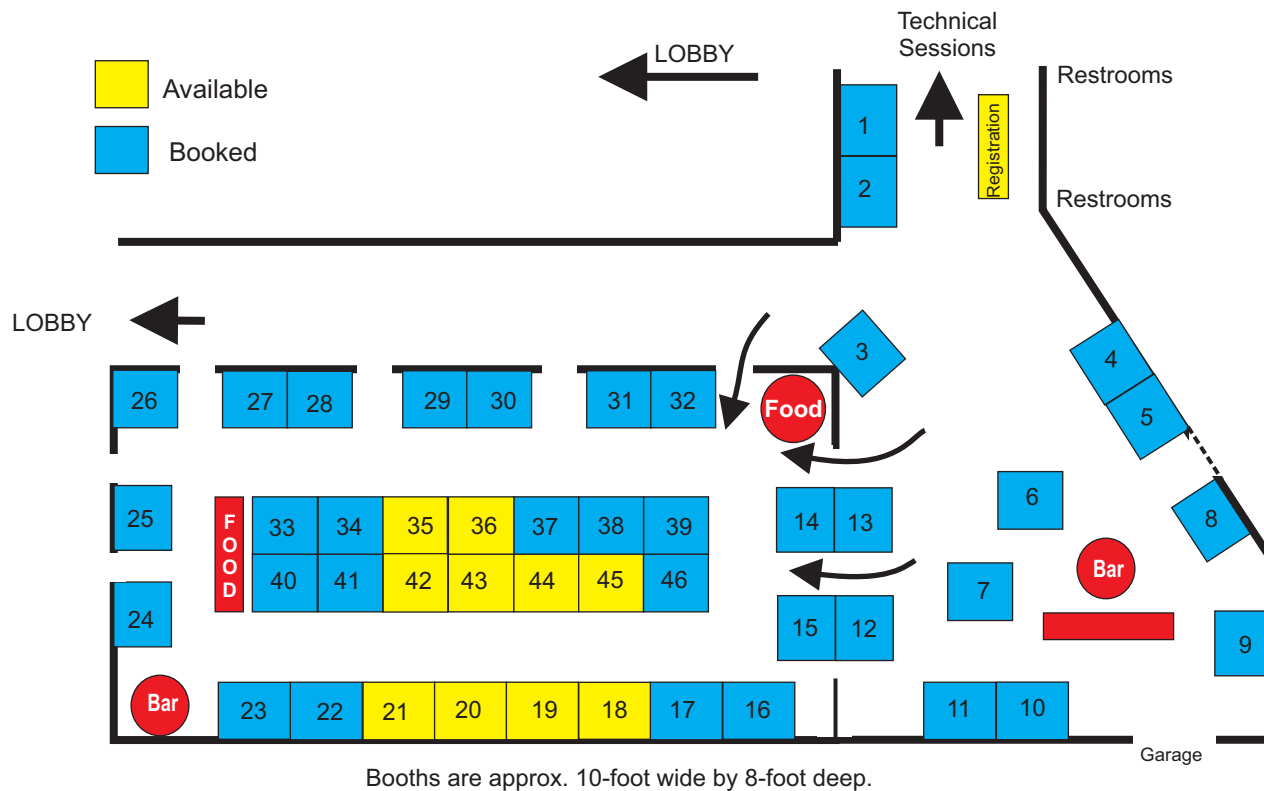
About the speaker:

Sherry received her BS in Architectural Engineering from the University of Texas at Austin in 1999 and has been an active structural design consultant for 12 years. Her primary experience includes structural calculations, design, construction document preparation, and construction administration for new and existing commercial buildings. Her project experience includes hospitals, medical office buildings, schools and universities, movie theaters, art and natural history museums, aquatic facilities, a semi-conductor manufacturing plant, telecommunications towers, cooperative student housing, retail shopping developments, restaurants, banks, hotels, and mid-rise and high-rise multi-family buildings. Sherry is a licensed Professional Engineer in the State of Texas and a member of the Structural Engineers Association of Texas.

RAFFLE DRAWING IN EXHIBIT HALL WITH EXHIBITORS

CONFERENCE WRAP UP

*Javier Carlin, P.E., SEAoT State President
Lew Shrier, P.E., Conference Chair*



EXHIBITORS

Alpine Trus Steel	24	International Code Council	32
American Institute of Steel Construction	16	Mitek Builders Products	37
Atlas Tube	40	Nucor - Vulcraft*	39
Cast Connex	13	Peikko USA	41
CloudCalc	28	Radarview	1
CTS Cement Manufacturing Corp	46	RamJack Foundation Solutions	30
Delta Structural Technology, Inc.	38	Risa Technologies	14
DeWalt / Power Fasteners	11	Simpson Strong-Tie	12
Dlubal Software	2	Simpson Strong-Tie	15
Epic Metals Corporation	8	Stego Industries	7
Epoxy Design Systems	23	Structural Technologies	17
Euclid Chemical	5	Superior	25
Fabreeka International	33	Tella Firma Foundations	3
Fibrwrap	27	Trimble	10
Gate Precast Company	4	Uretex IRC	22
GIZA Steel	35	USG Structural Solutions	6
Hayward Baker	26	VoidForm Products	9
Helical Concepts	29	Wood Products Council	34
Hilti	31		

Conference Sponsors highlighted in red.

PLEASE PRINT VERY CLEARLY

Registration for SEAO_T State Conference

Name: _____

SEAO_T Member Chapter: _____

Attendance Category:

- Professional Attendee Student Presenter
 Sponsor Exhibitor Companion Golf Only

Company _____

Street Address _____

City _____ State _____ Zip _____

Day Phone _____ Email _____

COMPANION PROGRAM

Complete if you are bringing a spouse or companion who wishes to participate in the Friday Companion program (cost is \$125)

Name (First/Last) _____

SPONSORS (Event includes two passes, Platinum, and Gold sponsors include one full pass)

- Event (\$5,000) Platinum (\$3,000) Gold (\$2,000) Silver (\$750) Bronze (\$300)
 Technical Session (\$1000) _____

GOLF

Sponsored Session

Player 1 _____ Hcp _____

Player 2 _____ Hcp _____

Player 3 _____ Hcp _____

Player 4 _____ Hcp _____

GOLF SPONSORS:

- Lunch - \$500
 Longest Drive - \$250
 Hole Sponsor - \$100 - includes sign at Tee Box

SEAO_T State Conference
c/o Stansfeld & Fairbrother, Inc.
9300 Sandstone
Austin, TX 78737

ONLINE REGISTRATION

The fastest and easiest way to register is online at
www.SEAOT.org

PAYMENT REQUIRED TO HOLD YOUR RESERVATION

If you wish to pay by credit card, please pay online through the web site at <http://www.seaot.org>