

Newsletter for November 2017

Branch Meeting Tuesday, November 14th, 2017 from 11:30am to 1:00pm

RSVP Link: <http://events.constantcontact.com/register/event?llr=h9o54mhab&oeidk=a07eejc62sef0b7d292>

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November Branch Meeting

By: Travis Isaacson, P.E.

Topic

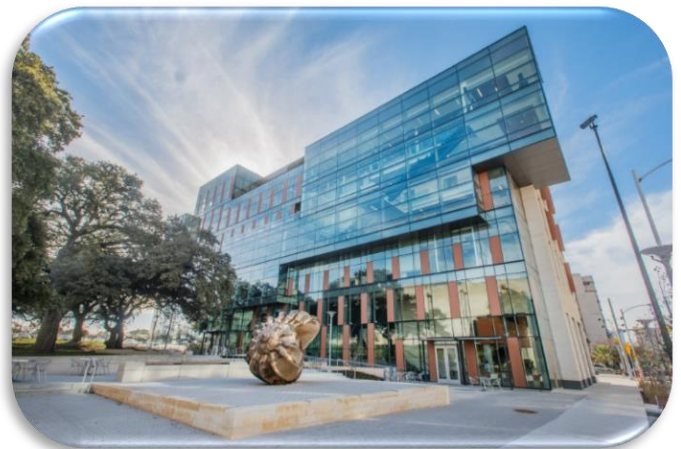
UT Austin: Capital Planning & Construction – The Dell Medical School and Beyond

Speaker

Jim Shackelford, AIA - Director of Capital Planning & Construction, UT Austin

Background

Jim is a graduate of the University of Texas at Austin School of Architecture with over 37 years of professional experience. From 1980 to 2004 Jim was engaged in private practice in Austin as either a Project Architect, Construction Administrator, Project Manager or Principal, personally responsible for over \$2 billion in construction; including commercial, industrial, semi-conductor manufacturing, and public institutional work; and those projects encompassed Construction Manager at Risk, Design Build, and fast-track multiple prime delivery methods in addition to traditional design-bid-build.



Jim has been with the University of Texas System – Office of Facilities and Planning (OFPC) for over 13 years, beginning in 2004. Jim currently serves as the Director of the Capital Planning and Construction office at the University of Texas at Austin, overseeing a portfolio of 11 active projects with a value of over \$1.3B.



Notable UT Austin projects Jim has managed include the Dell Medical School Phase 1, Norman Hackerman Building, Nano Science & Technology Building, Biomedical Engineering Building, Microelectronics and Engineering Research Building, Darrell K Royal – Texas Memorial Stadium Expansion, and the Engineering Education and Research Center. Current projects include the Welch Hall Renovation, Robert B. Rowling Hall, Texas Tennis Center, East Campus Parking Garage, and the Speedway Mall and East Mall.

Jim has been married to Debbie for over 36 years, and they have three adult children and two grandchildren.

Meeting Information

- Date and Time: November 14th from 11:30 am to 1:00 pm
- Location: Phillips Event Center, 8140 Exchange Drive, Austin, Texas 78754

Cost if Pre-registered by 11/10 at Noon:

- \$30 - Member / Guest
- \$20 – Gov’t / Life Members / Retirees
- \$15 – Students

Cost if Not Pre-registered or Walkup:

- \$40 - Member / Guest
- \$30 – Gov’t / Life Members / Retirees
- \$25 – Students

Meeting Sponsor

By: Tyler Dube, P.E.

Hayward Baker Inc. (HBI) is North America’s leader in geotechnical construction, offering the full range of pre- and post-construction services for foundation rehabilitation, settlement control, liquefaction mitigation, soil stabilization, groundwater control, slope stability, excavation support and underpinning for nearly 70 years. HBI is annually ranked #1 in our field by Engineering News-Record.

Headquartered in Hanover, Maryland, with offices in Dallas and Houston, HBI has over 35 offices servicing North and South America with annual sales in excess of \$500 million. Since its inception, HBI has established itself in the forefront of geotechnical specialty contracting, evolving and expanding to meet the increasingly complex needs of the construction community. HBI is capable of offering full Design-Build services for any geotechnical construction application.



Hayward Baker Inc. is part of the Keller Group of companies. Keller <http://www.keller.co.uk> is the world’s largest independent ground engineering specialist. With annual revenues of around \$2.4 billion, Keller has approximately 10,000 staff worldwide.

President's Message

By: Glenn Goldstein, P.E.

November is election month and we would like to remind and encourage all of our members to vote! ASCE focuses heavily on government relations and it's important to consider the impact that these election results have on our community and profession. There are several propositions on the ballot, including a bond package that will directly impact civil engineers in our community. No matter your political affiliations, I urge all of you to get out and vote on Tuesday, November 7th!

As we start preparing ourselves for the upcoming holiday season, I'd like to remind our membership that the ASCE Austin Branch is working hard to give civil engineers the opportunity to give back to the community. As always, check out our website and calendar for a full listing of events. Here are just a few ways to contribute:

- **Capital Area Food Bank:** We are collecting contributions during the November and December Branch meetings. Be on the lookout for donation boxes at each table or donate using your credit card at the registration table.
- **Hurricane Harvey Relief:** The Branch will continue to support relief efforts for the member counties of Bastrop, Fayette, Lee, and Lavaca. Please visit our donation page and join us for the YMF\Branch fundraiser on November 11th. The Branch will be matching member donations.
- **EWRI Rain Garden:** Through a partnership with Keep Austin Beautiful, EWRI is supporting the construction of two rain gardens at Metz Elementary School. They are in the final stage of completion and will be wrapping up on November 4th. The gardens were designed by UT Austin ASCE students.
- **Student Outreach –** We engage with many partners throughout the year to give young students an overview of a career in science and engineering. Part of the Branch's participation during Engineers Week this February will be to visit local grade schools to introduce students to the world of civil engineering. We will need plenty of volunteers for this education-filled week and details will be heading your way. You'll be amazed at what these students can do!



Last month, the Austin Branch submitted their nomination for the 2017 ASCE Outstanding Large Branch Award. This enabled us to revisit the amazing events of the past year under Steve Zobal's leadership and truly highlight what makes our Branch special. Big kudos to Kacey Paul for her efforts in preparing the application and making sure our Branch has a chance in the spotlight!

Do you know a Branch member who has distinguished themselves in their service to the profession, the Branch, and the community? Nominate them for the 2018 Civil Engineer of the Year Award to be presented during the Texas Society of Professional Engineers' banquet in February. Look for nomination forms on our website.

If you have not renewed for 2018, take the time to complete the membership process. Encourage your peers to join ASCE as a way to stay plugged into the profession. Remember that in most cases, individuals nominated for Branch awards and scholarships must be current ASCE members. If you're not feeling the benefits behind membership, let us know – we're here for you!

Are you looking for additional ways to be more active in ASCE, get involved and stay connected in 2018? Get a head start and jump in now! There are a lot of great opportunities that fit into every schedule and interest level and we'd love to have you! Be on the lookout for upcoming opportunities with our Continuing Education Committee, Scholarship Committee, Community Service Committee, and Younger Member Forum (YMF), or contact me anytime (512-279-5437, glenn.goldstein@rsandh.com). We value your participation in ASCE!

Have a wonderful Thanksgiving and I look forward to seeing you at the next Austin Branch meeting.

Glenn

UT ASCE Update

By: Lily Aung, P.E.

The UT ASCE Chapter has the following upcoming events and invites you to attend!

What: Harvey Cleanup Event
When: November 17th (afternoon departure) & November 18th (return by 9pm)
Where: Rockport, Texas
Contact: Email trip coordinator Savannah Smith at savanna.k.smith@utexas.edu

What: Tailgate Social for the UT vs. Kansas Game
When: November 11th, 3:00pm to 4:30pm
Where: UT Campus Creekside Lawn
Contact: Email the Student Chapter at utexas.asce@gmail.com



YMF News & Events

By: Coby Gee, P.E.

ASCE Younger Member Forum (YMF) welcomes and encourages young engineers to become actively involved. YMF Austin offers opportunities to network with peers, learn more about the profession, provide leadership experience and encourage the full professional development of Younger Members (YMs). If you are interested in learning more about ASCE YMF Austin, please contact our president Coby Gee at coby.gee@freese.com or find us on Facebook at <https://www.facebook.com/ASCE.YMF.ATX/>.

October Highlights



YMF Social at Main Event

- Date: Tuesday, November 28th, 2017
- Time: 6:00pm – 9:00 pm
- Where: Main Event, 13301 North US Hwy 183, Austin, Texas 78750
- Link: <https://www.eventbrite.com/e/main-event-with-asce-ymfut-tickets-39372037825>

Golf Tournament

Want to get involved with a fun opportunity to network with civil engineering consultants and contractors in the greater Austin area?? We are looking for members to help coordinate the annual ASCE YMF Golf Tournament for Spring 2018! If you are interested in joining the committee, please contact Ryan Chapin at rchapin@rios-group.com.



EWRI News & Events

By: Cindy Engelhardt, P.E., CFM

Austin Environmental and Water Resources Institute (EWRI) is excited for a new year! We are excited to introduce out new board members and committee chairs for 2017-2018. Our organization is continuously seeking growth and new participation. If you are interested in learning more about Austin Branch EWRI, please visit our website at <https://www.austinasce.org/ewri/> or contact members of our board!

New EWRI Board

President:	Cindy Engelhardt, PE, CFM (Halff Associates, Inc.)	Community Outreach Chair:	Bryan Martin, PE (BGE, Inc.)
President Elect:	Will Huff, PE, CFM (Freese and Nichols, Inc.)	Communications Chair:	Travis Kaatz, PE (K Friese & Associates, Inc.)
Past President:	Lee Sherman, PE (City of Austin)	Social Chair:	Jeff Haber, PE, CFM (Jones Carter)
Treasurer:	Kacey Paul, PE, CFM (City of Austin)	Continuing Education Chair:	Kim Patak, PE, CFM, ENV SP, CPESC (Freese and Nichols, Inc.)
Treasurer Elect:	Stephanie Castillo, EIT, CFM (Halff Associates, Inc.)	Scholarship Chair:	Michelle Adlong, PE (City of Austin)

Rain Garden Events

Each year, Austin EWRI supports and participates in the construction of rain gardens throughout Austin. The first of several rain garden events was held on October 21st, at Metz Elementary School. Roughly 20 volunteers from EWRI, UT, Keep Austin Beautiful, and Austin Permaculture Guild came out to help build the first of two rain gardens. Additional work days are planned for Metz on November 4th, and November 11th if needed. No experience is needed. Please contact bmartin@bgeinc.com if you are interested in volunteering.



EWRI @ CECON

In September our Past-President attended the Texas Civil Engineering Conference (CECON) and met with the EWRI Texas Section institute. Following Hurricane Harvey, the Texas Section is planning a workshop in coordination with the Houston EWRI chapter focused flood recovery. The Austin Branch extended our support of this initiative.

EWRI Council Weekend for 2017

This year we had two representatives attend the 2017 EWRI Council Weekend in Memphis, TN. President-Elect, Will Huff and Past-President, Lee Sherman attended to learn more about the National EWRI initiatives and coordinate with other EWRI chapters. Lee Sherman attended the Municipal Water Infrastructure Council meeting and brought Austin's perspective to this national gathering of consultants, practitioners, and academics.



Pints for People

Our quarterly happy hour was combined with Texas American Water Works Association’s Pints for People to raise funds for Water for People. The event had over 150 people attendees!

Annual Planning

Planning for next year’s annual continuing education workshop is underway. If you would like to get involved on the planning committee, please contact Kim Patak at kjp@freese.com.

Texas Section Update

By: David Matocha, BSCE

The Texas Section is offering a webinar on November 14th at noon entitled “Envision: More Resilient Water Resources in Texas”. Each webinar costs \$35 per connection and you may have as many people watch the webinar per connection, as you want. You can register for these webinars via the Texas Section ASCE website. Please visit <http://www.texasce.org/?page=2017Webinars> for more information.



Be sure to continue to share the Texas Section Texas Infrastructure Report Card with your co-works, family and friends. I would hope every member makes sure their firm has several copies left in the reception area.

If you have any questions or concerns you want relayed to the Texas Section, please let me help you. I may be contacted at david.matocha@forterrabp.com or 512-914-0674.

SEI News & Events

By: Eric Sammarco, Ph.D., P.E.

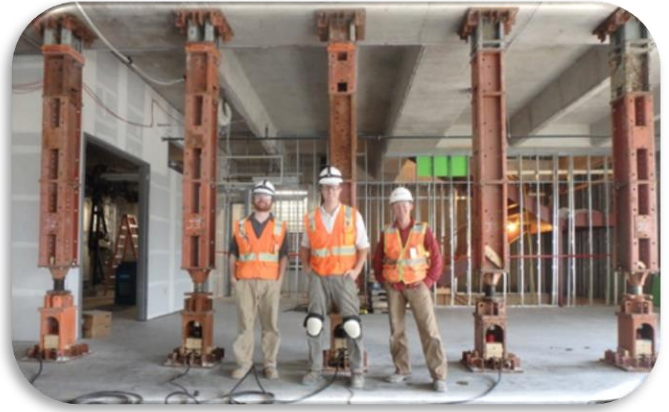
Greetings from the SEI Austin Chapter! We hope you can join us on Tuesday, November 14th at the Ferguson Structural Engineering Laboratory (FSEL), where we’ll be hosting an exciting lunchtime professional development meeting and hearing from Dr. Aaron Larosche of Pivot Engineers on in-situ load testing. Lunch will be provided at a small cost, and as always the event promises to be educational and interactive. Seating is limited, so please RSVP at our website (<https://www.austinasce.org/sei/>) as soon as possible. Meeting details are provided below:

November Professional Meeting

- Topic: In-Situ Load Testing: Two Case Studies for Two Test Protocols
- Presenter: Aaron Larosche, PhD, PE; Structural Engineering Consultant at Pivot Engineers
- Location: Ferguson Structural Engineering Laboratory (UT Austin J.J. Pickle Research Center)
- Date & Time: Tuesday, November 14th, 2017 from 11:30am to 1:00pm

Summary

Strength evaluation of an existing structure is typically performed by calculation and analysis; however, instances arise where load testing is more appropriate. Load tests have been used in evaluation of structures since the late 1800's, and from 1920 until recently the reinforced concrete industry has left this evaluation method largely unchanged in code documents. Recently within ACI an update was proposed to load testing procedure, test magnitudes, and acceptance criteria. ACI committee 437 codified the proposed update and today we have two ACI, code level, load test protocols. The monotonic load test protocol is provided in chapter 27 of ACI 318-14 (Chapter 20 in previous code editions) and the cyclic load test protocol is provided by ACI 437.2-13.



This presentation will highlight, through case studies, two instances in which a full-scale load test was selected as the evaluation method. While data and conclusions will be presented from each structure, the presentation will emphasize the decisions leading to selection of a load test as the evaluation method and the decision to apply either the cyclic or monotonic testing procedure.

Presenter Biography

Aaron Larosche is a structural engineering consultant for Pivot Engineers in Austin, TX. His experience includes investigation of structural failures, evaluation of existing structures, structural concrete repair, and nondestructive testing of existing structures. During his time as a consulting engineer, Dr. Larosche has worked on projects throughout the United States and Central America, each with their unique challenges. Aaron received his BS in Civil Engineering from Arizona State University, and both his MS and PhD in Civil Engineering from the University of South Carolina. He is an active member of the American Concrete Institute (ACI) and serves as the secretary of Committee 437 – Strength Evaluation of Existing Structures.

Structural Engineering Talks (SET) 2018



We are also excited to announce that we've begun planning activities with SEAoT for Structural Engineering Talks (SET) 2018. This will be our fourth year of SET, and every year it gets bigger and better. The continued success of this unique event can be attributed largely to our generous sponsors; support for which we are most grateful. If you've attended one of our past SET events and ever thought about sponsorship or wondered what all it entailed, we encourage you to get in touch with our sponsorship manager, Johnathan Terrazas (jaterrazas@lan-inc.com), to learn more. We would be delighted to have your support!

Stay connected with SEI Austin Chapter via our NEW website (<https://www.austinasce.org/sei/>), where you'll find the latest and greatest on upcoming events and chapter leadership. We always welcome your thoughts on future technical and social events. If there's something you'd like to do then we'd like to hear about it. Please drop us a line at sei.austin.tx@gmail.com.

Hurricane Harvey Fundraiser

By: Marita Moya, E.I.T.

A YMF\Branch fundraiser is planned for November 11th at the Two Wheels Brewing Company in Buda, TX. Brewery opens at 12pm. Proceeds of two kegs will be donated towards Hurricane Harvey Relief Efforts. The UT game will be on taking on Kansas at 5pm. So, come out to the brewery to enjoy watching the game and enjoy the beer! Address and additional details can be found at the event link below.



Additionally, the Branch is still receiving donations to support those impacted by the devastation of Hurricane Harvey. The Branch will be donating a total of \$1,000 plus matching member donations dollar for dollar, for a total Branch commitment of up to \$2,000.

Donations: <http://events.constantcontact.com/register/event?llr=h9o54mhab&oeidk=a07eeoqyg3b6bc1965a>
Event Link: <https://www.austinasce.org/calendar>

Central Texas Food Bank Fund Drive

By: Linda Barlow, P.E. & Sharon Hamilton, P.E.

Central Texas Food Bank - Fund Drive

Members, as the holiday season approaches, we have a tradition of raising funds for the Central Texas Food Bank. This organization has been at the front line of hunger relief with the help of Partner Agencies in 21 counties across Central Texas, where they provided more than 38 million pounds of food to families in need during fiscal year 2015-16. For every \$1 that is donated, the food bank is able to provide 4 meals to families in need in our area.



In November and December, you will see the donation boxes on the tables during our luncheons for the Central Texas Food Bank. Austin ASCE will match every dollar donated up to \$200! We hope that you will help us reach our donation goals to the food bank this year.

Community Outreach at The Bullock Museum

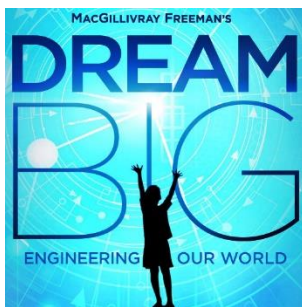
By: Linda Barlow, P.E. & Sharon Hamilton, P.E.

Science Thursday @ The Bullock Museum

The Branch has once again committed to volunteering at The Bullock Museum for Science Thursdays! Please consider volunteering on Thursday, December 14th from 10:00am to 1:30 pm. Exciting activities include: Hair-Raising Experience with a Van de Graaff Generator, Boat Race, Don't Sink the Cargo!, Puff Mobile, and Float your Boat.

On Science Thursdays, students can drop in and explore the Bullock Museum, see demonstrations, and participate in hands-on activities with STEM experts from Central Texas Discover Engineering. Science Thursdays are FREE for all groups who have pre-registered for a Bullock Museum field trip. Please email Linda Barlow at lbarlow@hvj.com to volunteer.

Dream Big @ The Bullock Museum



Plan on seeing the movie "Dream Big" at The Bullock Museum now until March 31st, 2018. Narrated by Academy Award® winner Jeff Bridges, Dream Big: Engineering Our World is a first of its kind film for IMAX® and giant screen theatres that will transform how we think about engineering. From the Great Wall of China and the world's tallest buildings, to underwater robots, solar cars and smart, sustainable cities, Dream Big celebrates the human ingenuity behind engineering marvels big and small, and reveals the heart that drives engineers to create better lives for people around the world.

Branch Engineer of the Year

By: Joe Goessling, P.E.

Do you know an ASCE Austin Branch member who has brought significant value and had a major impact on you or on others in our industry? If you do, please nominate them for the ASCE Austin Branch Civil Engineer of the Year award!

This award has been an Austin ASCE Branch tradition since fall of 1999 when the Austin ASCE Branch Board of Directors established the Branch Civil Engineer of the Year Award. This award is to be presented to a Branch Member who has distinguished themselves in the fields of service to the Civil Engineering profession, awards received, education, service to the Branch, service to the community, service to the student ASCE Chapter, etc. The award is presented during TSPE's Engineers Week Banquet in February 2018. Nomination forms will be available at the November and December branch meetings and also on our website at www.austinasce.org. You can also contact Joe Goessling at jgoessling@kfriese.com for an application packet and if you have any questions. This year the nomination submittal package is due by December 16th, 2017!

Government Employee Grant Program

By: Kacey Paul, P.E., CFM

The Austin Branch encourages local Civil Engineers who are employed by government agencies to be active members of ASCE. The grant program will award up to two recipients reimbursement for a full year's National and Local ASCE dues. Applicants must be: (1) a full-time employee of a government agency and (2) not be eligible for ASCE membership dues reimbursement from that agency. Applications are due on January 21st, 2018 and the application can be downloaded directly from the ASCE Austin Branch website at this link. For an application and/or questions concerning the grant program, please contact Kacey Paul at Kacey.Paul@austintexas.gov or (512) 974-1170.

Scholarship Committee

By: Genest Landry, P.E., PMP

Every year, Austin ASCE awards scholarships to deserving local civil, architectural, or environmental engineering college students. The Scholarship Committee is currently recruiting new members to help select the recipients for the fall of 2017 and to help update Austin ASCE's scholarship application for the spring of 2018. For more information, contact Genest Landry at genest.landry@austintexas.gov.

Calendar of Events

By: Various

- November 11th, 2017 – YMF\Branch Fundraiser for Hurricane Harvey @ Two Wheels Brewing Co.
- November 11th, 2017 – UT ASCE Tailgate Social @ UT Campus Creekside Lawn
- November 14th, 2017 – SEI Professional Development Luncheon @ J.J. Pickle Campus
- November 14th, 2017 – Branch Meeting @ Phillips Event Center (sorry for the conflict with SEI!)
- November 17th, 2017 – UT ASCE Cleanup Trip in Rockport
- November 28th, 2017 – YMF Social @ Main Event
- December 14th, 2017 – Science Thursday @ The Bullock Museum
- December 16th, 2017 – Deadline for Engineer of the Year Nominations
- January 21st, 2018 – Deadline for Government Employee Grant Applications

List of Branch Sponsors

By: Tyler Dube, P.E.

Thank You To Our Branch Sponsors!

