



TEXAS SECTION
Fort Worth Branch

Summer 2017
Volume 10, Issue 4



Fort Worth Civil Engineer

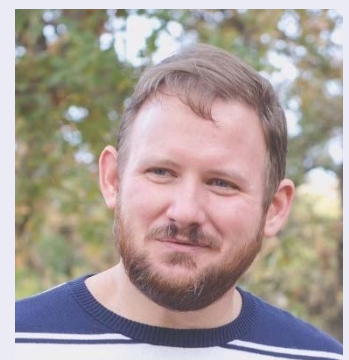
LETTER FROM THE PRESIDENT

As the Summer Season is quickly approaching please make time to attend our meetings to network and learn more about the Fort Worth Branch of ASCE. The Board has plans in store including possibly starting a technical institute at the local level, planning the July 17 Joint Meeting with the Dallas Branch, and CECON in San Marcos during September 20-22, 2017.

We are also excited to announce the 2018 Structures Congress that will be held in Fort Worth at the Fort Worth Convention Center during April 19-21, 2018. Please look to attend this important event and more details will be shared as they become available. Currently papers are being accepted for presentation at the 2018 Structures Congress (see www.structurescongress.org for more details)

I look forward to the Summer season with the Fort Worth Branch of ASCE and thank everyone who helps make the Fort Worth Branch successful.

- Clint Hoover, P.E., MBA, M.ASCE
Branch President 2016-2017



UPCOMING BRANCH MEETINGS

June Meeting

Date: June 19, 2017

Joint Meeting with TexITE Fort Worth

Location: Ruth's Chris Steakhouse

Speaker/ Presentation: Jeffrey Taylor,
P.E. (Dunaway Associates) - Dickies
Multipurpose Arena in Fort Worth

July Meeting

Date: July 17, 2017

Joint Meeting with ASCE Dallas Branch

Location: Arlington Hilton, Arlington, TX

Speaker: Dr. Peter Crouch, Dean of the
UTA College of Engineering

August Meeting

No meeting this month.

Enjoy your summer!

We will see you again
on *September 18th!*

TREASURER'S REPORT

by Niraj Acharya, P.E.

As of May 2017, the Fort Worth Branch has an account balance of approximately \$14,100. Please note that the Fort Worth Branch is a Section 501.3(c)(3) non-profit organization.

We encourage all members to pay for meetings online. Doing so automatically enters you into a drawing for a \$25 gift card.

We appreciate and thank all of the members and firms that continue to support the Fort Worth Branch!

MEETINGS THIS QUARTER

by Jennifer Roberts, P.E.

April Branch Meeting

Date: Dec 19, 2016

Location: Ruth's Chris Steak House

Speakers: Michael Gage, P.E., and
Jaime Aparicio, P.E. from TxDOT

Presentation: North Tarrant Express
- Segments 3A and 3B

Attendance: 108



Niraj Acharya (Vice-President), Clint Hoover (President) and
Michael Gage and Jaime Aparicio (TxDOT)

Packed house at April's Meeting



ASCE Fort Worth Branch Tarleton Texans celebrating the new
TSU ASCE Student Chapter!
CONGRATULATIONS and WELCOME TSU TEXANS!



Niraj Acharya (Vice-President), Travis Travis Attanasio (Past-
President and Speaker) and Clint Hoover (President)

May Branch Meeting

Date: May 15, 2017

Location: Ruth's Chris Steak House

Speaker: Travis Attanasio, P.E.
(City of Haslet City Engineer)

Presentation: ASCE Infrastructure Report Card
and RFQ Process for Small Cities

Attendance: 91

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STRUCTURES CONGRESS 2018

Fort Worth, TX | April 19-21



The Structural Engineering Institute (SEI) of ASCE will be hosting Structures Congress 2018 in Fort Worth Texas, on April 19-21, 2018. SEI is currently accepting abstract and session submissions for consideration.

The deadline for this coming up quick and is on **June 5th**!

Please visit the conference website for more information www.structurescongress.org

TRWD TRINITY TRASH BASH



On May 20th, Tarrant Regional Water District hosted their 3rd Annual Spring TRWD Trash Bash. Our own, Thomas Moody (from CP&Y and one of the Fort Worth Branch's TSU Practitioner Advisors) was at the event. Several students from Tarleton State University's ASCE Student Chapter joined their efforts. Two of the students won a Water Balloon Toss and with it 4 Tickets to Six Flags!

WHAT A GREAT WAY TO HELP THE ENVIRONMENT AND REACH OUT TO THE NEW TSU STUDENT CHAPTER!!!



STUDENT CHAPTER UPDATE

University Texas at Arlington (UTA) Student Chapter

Every year each Student Chapter submits an annual report to ASCE Nationals covering all the events and activities conducting by the Chapter over the year. The UTA Student Chapter's 2016 Annual Report was awarded Honorable Mention. This award is given to the top third of Student Chapters, based on their 2016 Annual Report score. The UTA Student Chapter plans to keep up the good work, and deliver another strong year for our students and professionals.

WAY TO GO MAVERICKS!!!

Tarleton State University (TSU) Student Chapter

Now that the Tarleton State University has received approval on their Letter of Intent to become a Student Chapter of ASCE, they are excited to get started with the program. They will be taking a break for the summer but the chapter is looking forward to get started with planning, hosting meetings, inviting speakers and much more next year. Join us in welcoming Tarleton State University to the team.

CONGRATULATIONS and WELCOME TSU TEXANS!!!

BOOK REVIEW of "BUILDING THE LONE STAR" by T. Lindsay Baker, PhD

by Glenn Celerier, P.E., Engineer's in Government Chairman

During "Engineers Week" we all took pride in what we do. Dream Big certainly made us all stand tall. And May's "Infrastructure Week" added context to how we make society civil. These events reminded me of a book I stumbled across a few years ago, Building the Lone Star by T. Lindsay Baker, PhD.

Dr. Baker, a Tarleton State University history professor, is a well published historical author; host of the weekly KTRL FM 90.5 Tarleton Public Radio broadcast "T for Texas;" and the son of a civil engineer. His book completed a nexus of my two favorite subjects, engineering and history.

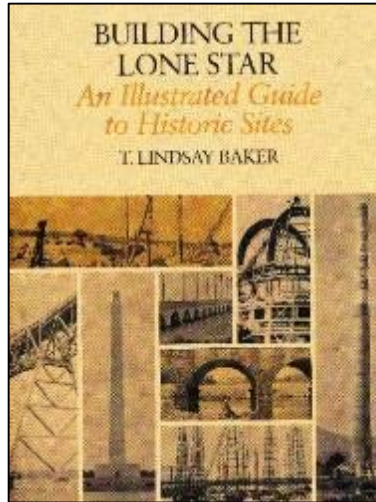
Building the Lone Star is a collection of short well illustrated articles describing the routine alongside the legacy engineering works throughout the Lone Star state. Articles include photos of many icons under construction such the Astrodome and historical photos of long forgotten majestic works like the Pecos High Bridge west of Del Rio.

Dr. Baker provides readers plenty of engineering facts making the stories credible, and each story satisfies an engineer's curiosity for detail. Alongside the bridges and dams he also tells the story of some sites you may not have considered having any engineering connection such as the Ft. Worth Stockyards and the McDonald Observatory which peers into far away galaxies. Ever wonder if there any engineers in galaxies peering back?

If you're an engineering road warrior, you'll be satisfied by the fact that Dr. Baker provides driving directions to each site no matter how hidden it may be. Take for instance the Daisy Bradford No. 3 discovery oil well tucked away in the piney

woods. That well ushered in the East Texas Oil Field the largest oil field known to mankind in 1930. A field so large that it single handily drove the price of Texas oil down to a less than ten cents a barrel in May of 1931. You'll find directions to the site of the San Marcos Activated Sludge Sewage Treatment Plant. The first activated sludge plant to serve a complete city. Something to think about when you attend CECON this fall.

Dr. Baker includes engineering sites interesting to all civil engineer types. Some of my favorites sites are: the 1841 Republic of Texas boundary marker on the Texas – Louisiana state line on FM 31 southeast of Carthage; the Quitaque Railway Tunnel, now a part of a state park; the Regency Suspension bridge seen on the opening segment of the TV series "Texas Country Reporter;" the Possum Kingdom Stone Arch Bridge constructed by the WPA in 1940 as the SH 16 crossing over the Brazos River just downstream from the Morris Sheppard Dam; and the 1914 Paddock Viaduct spanning the Trinity River in Fort Worth. It's famous for being the first concrete arch bridge in the U. S. to employ self-supporting reinforcing steel.



Since the book was published in 1986 it is dated, so some works have since been abandoned, but many continue serving, while others found new lives like the WW II coastal artillery defenses now incorporated into the structure of Galveston's the San Luis luxury hotel.

Building the Lone Star is still available in paperback from the Texas A&M University Press for \$29.95. Used hard cover editions are occasionally available on Amazon.

SECTION DIRECTOR'S REPORT

by Kimberly Cornett, P.E., CFM



Mark your calendars for **CECON**

September 20-22, 2017 at the Embassy Suites San Marcos Hotel, Spa and Conference Center



Texas Excellence in Journalism Award is due by September. If you have read a great article in the local newspaper this year and it is worth being recognize, you can nominate the author of the article. For more information please contact: Kimberly.cornett@jacobs.com

Texas Section Webinars: Is you company interested in hosting Texas Section Webinars that occur the 2nd Tuesday of each month? If so, please contact Kimberly Cornett, Kimberly.cornett@jacobs.com. A host company provides a conference room with webinar capabilities and ASCE coordinates the rest.

Abilene/Wichita Falls Area- We are working on reaching out your way. If you are interested in being a point of contact to help us get ASCE Fort Worth meetings and continuing education to you, please contact Kimberly.cornett@jacobs.com.





GIRLS DREAM BIG!!!

May 13, 2017



Today, women make up only 20% of students in undergraduate engineering programs, but the Fort Worth Museum of Science and History aimed to change that with the **Girls Dream Big held on May 13th**!

During the activity packed afternoon at Girls Dream Big, middle and high school girls and their adult partner experienced engineering first-hand by participating in hands-on engineering challenges.



Then, attendees enjoyed a screening of Dream Big: Engineering Our World, an IMAX® film, which features three powerful female engineering role models. Following the film, a roundtable session was held during which the girls spoke with professional women engineers about the engineering featured in Dream Big and about their own STEM-based careers.



The FWMSH's Girls Dream Big was a free event sponsored by McGillivray Freeman Films, ASCE and Bechtel Corp. Additional volunteer support provided by the Fort Worth Branch of ASCE and the Fort Worth Section of the Society of Women's Engineers.

Here are the numbers – because Engineers LOVE numbers:

- ★ **87 girls** participate in the Girls Dream Big event from Camp Fire, Girls Inc, Girl Scouts, a local homeless shelter, and museum guests who signed up online.
- ★ **7 Women Engineer** Volunteers attended the event (including FTW ASCE's own: Jennifer Roberts – pictures left)
- ★ 100 individual containers of Blue Bell ice cream, hundreds of marshmallows and thousands of mini chocolate chips were consumed during the roundtable discussions (*Jennifer took part in this, too!*)



If you would like to volunteer at the FWMSH for events like these in the future, please reach out to Anne Herndon, FWMSH Executive Director of Programs at aherndon@fwmsch.org

UPCOMING OUTREACH OPPORTUNITIES

K-12 Outreach has opportunities AHEAD. If you are interested in being on a list to volunteer at career fairs, events, and presentations, please contact Kimberly.cornett@jacobs.com. We will be starting a running list so when the opportunities come up, we can reach out for volunteers.

SUMMER STEM ACTIVITIES FOR THE KIDDOS AT THE FORT WORTH MUSEUM OF SCIENCE AND HISTORY!



Maker Camp: Why spend your summer break on the couch when you could spend it at the museum making awesome things? Check out these fun and exciting maker camps for ages 7-9 and 10-12 this summer! To find out more, please visit their website:

<http://www.fwmsch.org/maker-camps>



Summer 2017 Museum School® Classes for Children Ages 3-9: What extraordinary learning is all about! For more than 66 years, Museum School has been opening young minds to a world of natural wonder. Museum School offers informal, discovery-based science and history classes that are enriched with Museum specimens or artifacts, creative activities, science investigations and other hands-on explorations. <http://www.fwmsch.org/museum-school-summer-program>

If you are able to attend, please send your fun photos in so they can be included in the next newsletter!

HISTORY AND HERITAGE

by John P. Wier, P.E., Historical Co-Chair

1966 – A HALF CENTURY AGO IN THE FORT WORTH BRANCH OF ASCE...

The following is an installment in a continuing/periodic series giving a glimpse into some of the past activities of Fort Worth Branch and its members during the “early years.”

Much of this information is taken from “The History of the Fort Worth Branch, Texas Section, American Society of Civil Engineers for the Years 1931 to 1970”, by H. H. Hester (a former Branch Historian & a Life Member, ASCE)

On January 21, 1966, the Branch helped to sponsor a dinner honoring Mr. C. Milo Thelin on his retirement as public works Director of the City of Fort Worth. Milo joined the Fort Worth Branch in 1935. A group of Civil Engineers and other professional men paid a nice tribute to Mr. Thelin for his long and faithful service to the city and to A.S.C.E. In appreciation for this fine service he was presented a lovely color television set.

2017 Side Note: The commercial TV networks first began airing the majority of their prime-time shows in color in 1965.

On March 14, 1966, Robert Gooch, Branch Secretary, sent to 55 schools in Tarrant County a book entitled “Your Future in Civil Engineering.” In a letter to the schools, he asked that the books be placed in the libraries, and he hoped that they would be helpful to students who wish to learn more about Civil Engineering as a profession.

The following information was received May 9, 1966 from the Corpus Christi Section meeting:

- Member Clair Garden won first place in the State level of the Daniel Mead Competition.
- Arlington State College Student Chapter won the Section award for student participation.
- G. Don McChensey of Arlington State College Student Chapter won first place in the Section Student Paper Contest.

2017 Side Note: Arlington State College, the name of this A&M system college since 1949, had grown into a four-year college by 1963 and had a larger enrollment than the A&M campus at College Station. When A&M Trustees decided to concentrate on the College Station campus, and not fund expansion of the Arlington campus, local leaders encouraged the Texas Legislature to separate the college from the A&M system. The transition to the UT system occurred in 1966. In 1967, the name was changed to the University of Texas at Arlington (UTA).

(In four years of participation in the Student Paper Contest, Arlington State had now won first place twice, and second place twice. Such news is always welcome to the Fort Worth Branch).

The June 13, 1966 speaker was James R. Nichols, who presented an illustrated program based on his recent tour of Iraq, Lebanon, the Holy Land, and other areas of the Middle East. This was very interesting, as Mr. Nichols related the differences in Engineering practices that are used in these countries.

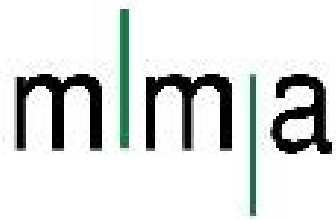
September 12, 1966 Bob King, Branch State Director, reported an essentially favorable response to his survey of the membership, regarding selected programs of continuing education as suggested by the National Society A.S.C.E. The proposed program would be in the “form of seminars, based on high quality lesson material supplied at a reasonable cost by A.S.C.E. with the lectures being provided locally”.

The speaker for the meeting on October 10, 1966 was Mr. J. Lee Johnson, Chairman of the City Aviation Board and distinguished Fort Worth Citizen. Mr. Johnson discussed the progress that was being made on the New Regional Airport and how the personnel and freight airline business has exceeded all expectations.

2017 Side Note: The land for the New Regional Airport, now known as the Dallas/ Fort Worth International Airport was purchased by the Cities in 1966 and construction began in 1969.



The meeting on November 14, 1966 was held at the Arlington State Student Center [now UTA]. The speaker was Mr. Douglas Thorpe with Pittsburg Des-Moines Steel Company. Mr. Thorpe presented an unusual film and discussion on the design, fabrication, and erection of the St. Louis Gateway Arch, an outstanding engineering achievement in methods of erection techniques. The Arch cost more than 9 1/4 million dollars, stands 630 feet high, and contains 4,000 tons of structural steel, plus 1,000 tons of stainless steel plates.



SECOND ANNUAL STATE-WIDE YOUNGER MEMBER CAMPING TRIP



Palmetto State Park
September 22nd 24th

2nd Annual Texas Section
YM Camping Trip

The 2nd Annual Statewide Younger Member Camping Trip is scheduled for **Friday, Sept 22nd -Sunday, Sept 24th**.

Hold on... Those dates sound familiar... Of course! That is immediately following CECON 2017!!!

And it just so happens we will be camping at Palmetto State Park, in Gonzales, Texas – just a convenient 40min drive southeast from the Embassy Suites in San Marcos where CECON is being held.

This year, we are expanding our registration to accommodate up to 96 people on a first come first served basis including family members and spouses. A registration fee of \$30 per camper is required to secure your registration.

The event will be family friendly, however, this is an event for young adults, and alcohol (compliant with park regulations) may be present, so please take the event's primary audience into consideration when bringing spouses and children. Registration will be open to non-members as well.

The fee covers:

- overnight campsite;
- 5 meals: Friday dinner to Sunday breakfast
- And more fun than you can shake a stick at!

While at Palmetto State Park enjoy camping along the San Marcos River

- Tube and canoe rental
- Leisurely group hikes
- Swimming and fishing
- Networking, hanging out, and good memories with fellow YMs from all corners of Texas!



Please go to the link below and fill out all the requested information by Tuesday, August 1, to secure your registration!

<http://www.texasce.org/event/2017ymcamping>

If you have questions, please reach out to Alexis Clark at alexis.clark@hilti.com

CONTINUING EDUCATION OPPORTUNITIES

The University of Texas at Arlington' Center for Underground Infrastructure Research and Education (CUIRE) is hosting two events in June:

1. Trenchless Technology and Pipe (TTP 2017) Conference, on Tues, June 20, 2017, from 7:30 AM - 4:30 PM in Nedderman Hall on the UTA Campus
2. Pipeline Design and Installation (PDI 2017) Workshop, Wed - Fri, June 21-23, 2017, from 7:30 AM - 4:30 PM in Nedderman Hall on the UTA Campus

To find out more about both events, please go to their website: <http://www.uta.edu/ce/cuire/>

Fort Worth ASCE Branch will be setting up a geotechnical technical group. The purpose of this group is to disseminate relevant information in this area to the members and the public by way of talks, seminars and conferences.

Calling all members! Calling all members! We need your help collecting information on upcoming Civil Engineering courses, seminars and presentation going on in the DFW area. If you come across anything, please send it on to our new Continuing Education Char, Dr. Raghu, at raghu@njit.edu He will compile and update the list and then make it available to the membership

IN MEMORIAM



Hal Sterling Motheral, Jr. was born August 11, 1946 in San Antonio, Texas to Hal, Sr. and Laverne Motheral. On Saturday, May 13, 2017, he died peacefully in his sleep due to complications from cancer and kidney disease. His memorial service was held at New World United Methodist Church on Saturday, May 20th, 2017. Hal attended the University of Texas, Austin and received a degree in Civil Engineering. He had a long career with Gifford Hill American, Inc. (now Hanson) and other pipe manufacturing companies before retiring. He was a member of The American Society of Civil Engineers and attended Fort Worth Branch meetings regularly for many years. Hal was an avid golfer and was able to fulfill a dream of playing at Augusta National Golf Club. He was an active member at Great Southwest Golf Club for many years.

He is survived by his wife of 47 years, Kay Motheral; daughter Robin Motheral; sister Lynn Ziegler and husband Thad; nephew Thad C. Ziegler, wife Anna, and their children Thad R. and Elaine of San Antonio; nephew Will Ziegler, wife Valerie, and their children Hallie, Vivienne, and Forrest of San Antonio; niece Barbara Schenker, husband Max, and their son Ty of Austin.

2016-2017 FORT WORTH BRANCH OFFICERS AND COMMITTEE CHAIRS

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