LETTER FROM THE PRESIDENT

To the ASCE Fort Worth Membership:

I said it earlier in the year and I will say it again...time flies when you are having fun!

This past quarter has included several highlights for the Branch. As is our biennial tradition, we hosted the FWASCE Golf Tournament in May. Proceeds from this tournament are reinvested in scholarships for UT Arlington and Tarleton State civil engineering students. This year’s tournament raised over $4,000, which will be distributed next year. We were fortunate to welcome Robin Kemper (President-Elect of ASCE Global), Lindsay O’Leary (Executive Director of the Texas Section ASCE), and Larry Goldberg (President of the Texas Section ASCE) to our May meeting. At this meeting, we awarded three scholarships totaling $2,500 from last year’s scholarship funding.

This is the fourth letter of this nature that I am penning, which means my term as FWASCE president is coming to a close. During the opening meeting of the year, I made a commitment to “not burn the place down.” Assuming nothing wild occurs between the issuance of this newsletter and September, it looks like we are in good shape! Austin Baird will take over as President of the Branch in September and I’m certain FWASCE will continue to thrive under his leadership.

On that note, I’d like to take this opportunity to thank the twenty-two board members and chair positions that volunteer to help FWASCE. A lot of coordination and effort is poured into keeping the Branch running on a day-to-day basis. Specifically, I have to thank Morris Layton for putting together some great newsletters this past year!

In closing, I want to express my gratitude and great appreciation for you all, the general membership body. I have greatly enjoyed this opportunity to serve you and appreciate your continued support of FWASCE.

Sincerely,

Niraj A. Acharya, P.E., M. ASCE

Branch President 2017-2018

nacharya@tnpinc.com
Upcoming Branch Meetings

**MONDAY, OCTOBER 15, 2018**

Location: TBD
Speaker/ Presentation: TBD

**MONDAY, NOVEMBER 19, 2018**

Location: TBD
Speaker/ Presentation: TBD

Meetings from the Previous Quarter

**TUESDAY, MAY 15, 2018**

Location: Blue Mesa Grill
Speaker: Robin Kemper, President Elect for ASCE Global
Topic: The Value of ASCE
Attendance: 63

**MONDAY, JUNE 18, 2018**

Location: Reata
Speaker: Michale Shultz w/ National Weather Service
Topic: Hurricane Harvey
Attendance: 95

**MONDAY, JULY 16, 2018**

ASCE Joint Dallas and Fort Worth Branch Meeting
Location: Hilton Hotel
Speaker: Various
Topic: Various

**MONDAY, SEPTEMBER 10, 2018**

Location: Reate
Speaker: Jerry Cotter, US Army Corp of Engineers
Topic: NOAA Atlas 14 Update
Attendance: 60
YOUNGER MEMBER EVENTS

PAST EVENTS

On Tuesday, May 15th the Fort Worth Branch Younger Members and UTA students took a tour of the ‘Texas Live!’ construction site with ASCE President Elect Robin Kemper. (Pictures attached)

On Saturday, May 19th the Fort Worth Branch Younger Members gave back to the community by participating in the TRWD Trash Bash.

On Thursday, July 19th the Fort Worth Branch Younger Members participated in the TSPE Young Engineer Leadership Forum – Balancing Personal and Professional Life

On Thursday, August 23rd the Fort Worth Branch Younger Members had a Bowling Night.

UPCOMING EVENTS

Tuesday, September 18th – Joint FW/DL ASCE and TexITE Rangers Game

September 21st-23rd – 3rd Annual Texas Section YM Camping Trip

Thursday, October 25th – ASCE FW YM/TexITE/UTA Students – Trinity River Vision Henderson V Bridge Construction Site Tour – Details coming soon!

Contact Amanda Quisenberry for details on past and upcoming events. Information below: E-mail: amanda.quisenberry@aguirre-fields.com
- Friday, September 21st-Sunday, September 23rd
- Conveniently paired with CECON!
- Registration open May 1st-August 1st online at Texas Section link
- Fee of $38 covers your campsite and five meals (Friday dinner to Sunday breakfast)
- McKinney Falls State Park camping
  - Hike or bike nearly nine miles of trails.
  - Swimming & Fishing
  - Networking, hanging out, and good memories with fellow YMs from all corners of Texas!
CONFERENCE ON PIPELINES IN EXPANSIVE SOILS

ASCE Fort Worth Branch is planning a one day conference to be held during Feb/March 2019. The theme of the conference is “Pipelines in Expansive Soils”. Attendees will receive 6 to 7 pdhs. Purpose of this conference is to make engineers aware of the concerns of the safety and other aspects in view of the recent gas pipe line explosions in the Dallas Area. Please see Figure 1 below.

![Figure 1 View of a house Damaged by Gas Pipe Explosion (Source: NTSB Report)](image)

Preliminary investigations by NTSB attribute the cause of the explosions to corrosion and failure of the compression joints in tension caused by the swelling action of the expansive soils. Corrosion is another undesirable effect of expansive soils on buried metallic pipes that causes cracking as shown in Figure 2 below. Protective layer against corrosion wears out especially when the pipes come into direct contact with swelling soils and are not backfilled with suitable granular fill.

![Figure 2 Circumferential Crack in steel 2 in Diameter Pipeline (Source: NTSB Report)](image)

Proper installation practices including geotechnical aspects have to be revisited in this regard. Usually pipelines are designed for downward forces with bedding properly designed and provided. In the case of swelling forces, fill above the pipe functions as bedding. There is a role reversal of bedding and backfill when it comes to swelling forces. Accordingly the practices of installation have to be looked into.

Pipe breakages (water, gas, storm, sewer) result in undesirable effects such as loss of life, property, flooding, loss of water, pollution etc. So there are several aspects of this problem for which answers are required. Purpose of this conference is to find answers, if possible, from the experts in this area

Speakers in the following areas are being sought:
1. Corrosion mechanisms of swelling soils on buried pipes including prevention and remediation.
2. Design of pipes and pipe joints for swelling effects.
3. Trenchless Technology in swelling soils and
4. Case Histories and other relevant aspects.

Tentative program is as shown below:
1. Welcome by ASCE President
2. Introduction and Overview of conference by Dorairaja Raghu
3. Corrosion of buried pipes in expansive soils, prevention and remediation- Allen Cox of Ductile Iron Pipe Institute has agreed to provide a speaker.
4. Expansive soils- background, swelling mechanisms, Characterization- Probably by Dr. Puppara or a member of his research team
5. Design of pipes and joints for swelling effect- With reference to plastic pipes by Kyle Wrobleski, Technical Manager, S & B Technical Products, Fort Worth
6. A. Case histories- Storm Drainage pipes- Walter Catlett, American Concrete Pipe Institute
6. B. Case Histories- Ductile Iron Pipes- Allen Cox of Ductile Iron Pipe Institute has agreed to provide a speaker.
7. Trenchless Technology in swelling soils- Most probably Dr. Mohammad Najafi of University of Texas at Arlington (UTA).

Two following options are being looked into for running this conference:

Option 1: UTA along with Utility Engineering and Surveying Institute (UESI) is organizing a one day seminar during Spring break. Discussions with Dr. Najafi are going on to finalize the logistics with ASCE Fort Worth Branch as a cosponsor and

Option 2: To run the event on our own, in sponsors will be needed to underwrite the costs incurred for lunch, coffee breaks and charges for the conference venue. American Concrete Pipe Association has tentatively agreed to bear the cost of lunch for 30 persons. Attempts are being made to solicit funds others such as Ductile Iron Pipe Research Association. (DIPRA).

For more details, please contact Dr. Dorairaja Raghu. (Phone 973 580 0375. Email – Raghu@njit.edu)

Dr. Dorairaja Raghu, P.E.
raghu@njit.edu
THANKS BRONZE SPONSORS
When it is newsletter time I randomly pull out a few files in the ASCE Fort Worth Branch's archives. Sometimes I come across mountains of bank statements. Other times meeting minutes and past newsletters.

But this time I came across a letter written by the Younger Member Committee to the McDonald Branch of the YMCA. Back in April 1986, the Younger Members teamed up with the McDonald YMCA to help them develop a plan to utilize the remaining land adjacent to their existing facilities at 2400 East Berry Street for baseball/softball fields, a running track, football/soccer fields and a possible jogging trail. The scope of the service project included the preparation of an existing conditions site plan, a proposed conditions site plan, grading plan, and a feasibility report. The letter also offered construction administration services during construction of the layout chosen.

In 2013, the McDonald Branch of the YMCA merged with the Southeast Branch in a single facility at 2801 Miller Avenue. And later this year the YMCA opened the doors to the new McDonald Southeast YMCA at the northeast corner of Mitchell Blvd and Moreysby Street only 2,000 ft as the crow flies from its original location on East Berry.

It is amazing to know that a Fort Worth Branch ASCE YM service project undertaken 32 years ago is part of the YMCA legacy of delivering community health and wellness to the City of Fort Worth.

THANK YOU ALL FOR YOUR HELP!
BY: Jennifer Roberts, PE
Historical Chair
Do you have any Fort Worth Branch memorabilia? If so, please email me so I can collect it!
JHRoberts@LAN-Inc.com

CURRENT AND FUTURE MEMBER INFO
Fort Worth has 535 current dues paying members. Don’t forget to renew! Your ASCE Membership benefit includes 5 Free On-Demand Webinars, discounts, and more! To see full list of member benefits visit the ASCE website http://www.asce.org/member-benefits/
THANKS BRONZE SPONSORS

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RECRUIT YOUR COLLEAGUES!

Earn rewards for recruiting new members! Use the ASCE Member Get a Member Page on the ASCE Website http://message.asce.org/mgam to enter your colleagues e-mails, who are not yet a member of ASCE, to join ASCE! You receive a $50 Amazon Gift Card for each new member that joins! The National member with the MOST new recruits will receive a $500 Amazon Gift Card. This promotion ends December 31, 2018.

MOVING???

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This newsletter is distributed quarterly, the first week of October, January, April and July. If you have information you would like to have published in the newsletter, please contact Morris Layton, Newsletter Chair, at mlayton@mv-engineering.com

For corporate sponsorships please contact Austin Baird, Treasurer, at abaird@bhbinc.com

QUOTE OF THE QUARTER

“As engineers, we were going to be in a position to change the world – not just study it.”
—Henry Petroski