



**NORTH TEXAS CHAPTER**

# The Concrete Connection

A publication of the North Texas Chapter ICRI

THE CONCRETE CONNECTION

OCTOBER 2019

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## NOVEMBER NTX MEMBERSHIP MEETING

*Thursday, November 7, 2019*

### MEETING DETAILS:

**Topic:** *What is FRCM?*

**Speakers:** F. Keith Bohren, P.E. (Senior Field Engineer, Simpson Strong-Tie)  
Chad Eades (Senior Repair Protect Strengthen Specialist, Simpson Strong-Tie)

**Location:** Las Colinas Corporate Center — 4th Floor Meeting Room  
6363 State Highway 161, Irving, Texas

**Schedule:** 11:00 AM—11:30 AM Registration and networking;  
11:30 AM—12:00 PM Buffet Lunch is served;  
12:00 PM—1:00 PM Meeting and presentation

**Cost:** \$25 for members and \$35 for non-members. **Members must log in to receive the discount.**

**Registration:** <https://icrintx.org/event/nov19-membership-meeting-19/>

### PRESENTATION INFO:

**Speaker Bios:** *F. Keith Bohren*  
Keith Bohren is a Senior Field Engineer with Simpson Strong-Tie managing the Texas area. Keith specializes in the technical aspects, code compliance, and installations of Simpson's anchor and concrete strengthening lines. Keith's main focus is educating Structural Engineers and Jurisdictions as well as assisting with construction challenges. Keith has been with Simpson Strong-Tie since 2007 and prior to that worked for a Structural Engineering Consulting firm in the Seattle area.

#### *Chad Eades*

Chad is a Senior Repair Protect Strengthen Specialist for Simpson Strong-Tie and has been actively involved in the Construction Industry and Engineering Community for over 30 years. He is primarily responsible for coordinating efforts between Owners, Engineers and Contractors for Repair Protection and Strengthening Projects. He is an active member of several ICRI Chapters, and currently serves as is Vice President of the South Central Texas Chapter. Chad was born and raised in Wyoming , received his degree at Arizona State University from the School of Engineering and Applied Sciences, and currently resides in Austin, TX.

**Abstract:** What is FRCM? Fabric-Reinforced Cementitious Matrix combines a sprayable mortar with a carbon-fiber grid to create thin-walled, reinforced concrete shells without adding significant weight or mass to the structure. Its advantages are similar to those of FRP, in its strength, low weight, and ease of application, but also that it may be applied to repair and resurface, strengthen and protect in one application, as well as provide greater resistance to heat and better long-term durability. This presentation will introduce this technology and cover applications where FRCM may be used in lieu of traditional FRP. This presentation will also cover 'lessons learned' featuring a project profile. Also presented will be modifications to post tension slabs such as penetrations, typical damage and repair, means, methods and materials used to address these problems.

**JOIN ICRI!** We encourage all of our industry friends to become a member of ICRI to support the organization and take advantage of the many benefits of membership. Registration is easy! Visit the [ICRI registration page](#) and make sure to include your annual membership in the North Texas Chapter (\$40 per year) in addition to your national membership dues.

# PRESIDENT'S MESSAGE

Hello everyone!

First of all, thanks to all the sponsors and golfers who made the Jesse Points Memorial Golf Classic such a great success! This tournament, which raises money for NTX Chapter scholarships, was just played for the 18th year and was as strong as ever. This year, we raised nearly \$6,000. We are truly lucky to have such a supportive group of individual and company members in the North Texas area who are actively working to promote and advance the concrete repair industry to and for the future industry members.



**Stephen V. Grelle**

As the year begins to wind down and the holidays quickly approach, I encourage you to think about how you would like to be involved with ICRI in 2020. Like most other industry organizations, we rely on volunteers to plan and execute events and maintain chapter operations. NTX is one of the strongest ICRI chapters around, in large part due to the hard work of the volunteers on our Board and committees. If you'd like to participate and have a say in the future of the chapter, there are two primary ways for you to get involved. The first would be

to join a committee. The NTX Chapter currently has seven committees, which consist of Finance/Legal, Programs, Nominating, Membership, Publications, Special Events, and Scholarship. Any NTX chapter member is welcome to join a committee at any time and participate in a manner that best suits them. The second is to become a Board Member. Elections are held for Board Members each December. This year, we expect to have two Board positions to fill. If you are interested in running for either position, please let me (sgrelle@wje.com) or Mark LeMay (mlemay@jqeng.com) know.

If you're not sure how you would like to participate, you can always attend one of our Board Meetings with no strings attached. We'll even buy you lunch!

Thanks again for all that you do to support ICRI and the NTX Chapter. See you at our November Meeting!

Sincerely,

*Stephen V. Grelle*

2019 ICRI NTX Chapter President



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# FUTURE PROGRAMS & EVENTS

- November 7: Membership Meeting
- November 11-13: ICRI Fall Convention (Philadelphia, PA)
- December 13: Board Meeting
- February 4-7: World of Concrete 2020 Las Vegas

## ICRI 2020 KICK-OFF PARTY AT WORLD OF CONCRETE



SAVE THE DATE!

ICRI's 2020 Kick-Off Party will be coming up just prior to the start of World of Concrete on Monday evening, February 3, 2020 at *The Stratosphere* in Las Vegas. As in years past, there will be plenty of great food, abundant libations, and all the witty and fun people who make ICRI a great organization to be a member of! Plan to join us there!



Register for the World of Concrete using code promo code **A36** by January 17, 2020 and save!

Registration Link: <https://www.icri.org/event/WOC2020>



### Kick-Off Party info:

Date: Monday, Feb. 3, 2020

Register Online!

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## ICRI NORTH TEXAS CHAPTER HOSTS SEPTEMBER MEETING

The North Texas Chapter welcomed Nate Poen, Manager of Strengthening Solutions Group for Structural Technologies, LLC, to their September membership meeting held at the Las Colinas Corporate Center in Irving, Texas. Following some quality networking time and a bountiful barbeque buffet, Nate provided a brief history of post tensioning (P/T) systems, beginning in the mid-1950's with paper-wrapped, button-head systems. By placing the concrete in compression with the P/T systems, increased strength could be obtained allowing for longer spans, fewer columns, thinner and lighter slab sections and reduced shoring/reshoring time. In the 1960's the button-headed systems gave way to 7-wire, push-through strand systems in plastic sheaths. In the 1980's, heat-sealed strand systems came into common use, followed by the current encapsulated, extruded and grease-filled systems. Nate reviewed the common modes of deterioration of P/T systems, including corrosion, design or construction defects, damage to tendons by cutting, impact or overloading, or by modifications made to the P/T system such as at slab openings, MEP penetrations, or due to a change in use for the structure.

Pitting classifications to the strands can range from none to severe. Nate outlined the typical locations where failures occur, such as at exposed slab edges, slab cracks, expansion and construction joints, high points, and at the first low point from the slab edge. Nate then described the various means and methods used to repair P/T systems, including barrel splices, "dog bone" splices, temporary block lock offs, and torque stressing couplers. Because P/T systems are highly stressed once completed, safety was stressed as a critical factor in any repair of post-tensioned systems.



Presenter, Nate Poen (left), networks with colleagues at the NTX September meeting.



Nate Poen reviews the evolution of post-tensioning systems.

## ICRI NORTH TEXAS CHAPTER - 20<sup>TH</sup> ANNIVERSARY HAPPY HOUR

Members of ICRI met for a Happy Hour on August 22, 2019 to celebrate its 20<sup>th</sup> Anniversary. The event was sponsored by ICRI-NTX Chapter to celebrate this prestigious milestone and to thank all the members for their support of this chapter.

## NTX HOLDS 18<sup>TH</sup> ANNUAL JESSE POINTS MEMORIAL GOLF CLASSIC

While much of the USA was rapidly racing into Fall, the NTX Chapter celebrated the continuing hot weather on what was dubbed “July 71st” with the 18th Annual Jesse Points Memorial Golf Classic at Waterchase Golf Club in east Fort Worth. Named for NTX Charter Member and longtime Golf Committee Chairperson, Jesse Points, NTX members and guests enjoyed some lunchtime networking, and competed in the free putting and chipping contests. NTX Board Member and BASF rep, Eddie De Haro came within 1’-4” of the hole to win the downhill, right to left putting contest. Fellow BASF Team member, Shane Bryant, stopped his chip 5’-9” from the hole to win the chipping competition.

(Cont’d on Page 7)



*First Place:* Team of (left to right) Bryce McCarthy, Brax McCarthy, and Mark Lemay (Jaime Pelayo not pictured)



*Second Place:* Sunbelt Rentals Team (left to right) Austin Emerson, Patrick Thornhill, Scott Russell, and Travis Rawcom



**Above:** Third Place: George D Alan Team, Andy Bautz, Don Moore (Mike Minear and Tim Hicks not pictured)



**Above:** Putting Contest Winner and NTX Board Member, Eddie De Haro

**Below:** Chipping contest and long drive winner, Shane Bryant



**Below:** NTX Board Member, Jon Carrier, closest to the pin winner on hole #16

## ***SURFACE PROFILE CHIPS FOR SALE!***

Did you know that the NTX Chapter sells ICRI Surface Profile Chips (CSP 1-10)? Let us know before a meeting and we can deliver them to you there! Your purchase supports the NTX Chapter. For more information, contact Pete Haveron at [peteh@texconrest.com](mailto:peteh@texconrest.com).



(Cont'd from Page 5)

The hot weather was matched by the first place team of Bryce McCarthy, Brax McCarthy, Jaime Pelayo and Mark LeMay who posted a sizzling score of 15 under par, 57. Second Place honors went to the Sunbelt Rentals team of Austin Emerson, Patrick Thornhill, Scott Russell and Travis Rawcom with a score of 11 under, 61. The George D. Alan team of Andy Bautz, Don Moore, Mike Minear and Tim Hicks placed third with a score of 10 under, 62. Walter P Moore's team of NTX Board Member, Abhishek Aggarwal, Jeff Michael, Jon Pevey and Gerard Moulzolf took home the "Most Honest Team" trophy with a score of 71.

Closest to the pin winners were Bryce McCarthy (hole #2), Craig Porter (hole #7), Eli Babb (hole #12), and NTX Board Member, Jon Carrier (hole #16). Long drives were cranked out by Shane Bryant on hole #6, and by Justin Cooper on hole #18.

The NTX event helps to fund the Chapter's scholarship program, which so far in 2019 has awarded \$2,000 to the Civil Engineering Department at the University of Texas at Arlington, and \$4,000 worth of scholarships to individuals.

Individual Winners

Putting: Eddie De Haro  
Chipping: Shane Bryant

Team Winners


1st Place: Bryce McCarthy  
Brax McCarthy  
Jaime Pelayo  
Mark LeMay

2nd Place: Sunbelt Rentals Team  
Austin Emerson  
Patrick Thornhill  
Scott Russell  
Travis Rawcom

3rd Place: George D Alan Team  
Andy Bautz  
Don Moore  
Mike Minear  
Tim Hicks

Most Honest: Walter P Moore Team  
Abhishek Aggarwal  
Jeff Michael  
Jon Pevey  
Gerard Moulzolf

*Have industry news to share? Recent promotion? Industry recognition? We want to hear about it! Email [AAqgarwal@walterpmoore.com](mailto:AAqgarwal@walterpmoore.com) for inclusion in the next issue.*



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# NEWS FROM ICRI

## 2019 ICRI Fall Convention

Plan to join the International Concrete Repair Institute (ICRI) in Philadelphia, Pennsylvania. Whether you are a novice or seasoned professional, this is your best opportunity to expand your understanding of concrete repair, protection and restoration through networking, technical sessions with PDH credits, and participating in ICRI committee meetings.

### 2019 ICRI FALL CONVENTION

November 11-13, 2019

### “Historic Restoration: The Art and Science of Preserving Structures”

Double Tree by Hilton Philadelphia Center City | Philadelphia, Pennsylvania

You can expect another dynamic convention featuring concrete repair industry experts sharing their expertise with you. As always, your ICRI committees will be meeting throughout the convention and it is important to remember that all committee meetings (with the exception of the Fellows and Nominations) are open for anyone to attend.




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[WWW.ICRI.ORG/PAGE/CERT\\_TECHPROGRAM](http://WWW.ICRI.ORG/PAGE/CERT_TECHPROGRAM)

The North Texas Chapter is always looking for ways to expand or refine the newsletter. If you have suggestions on what we should include in the newsletter, new ideas, articles, or things we need to cut-out please send those comments to Jon Carrier ([jon\\_carrier@midcontinental.com](mailto:jon_carrier@midcontinental.com)).

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