

November 2018

# Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



**CHICAGO CHAPTER**

EDUCATION COMMUNICATION PARTNERSHIP

## THIS ISSUE:

- **CALL FOR AWARD ENTRIES**
- **OCTOBER ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS**
- **2019 ICRI SPRING CONVENTION**
- **HOLIDAY PARTY ANNOUNCEMENT**
- **SEPTEMBER DINNER MEETING HIGHLIGHTS**
- **NOVEMBER DINNER MEETING ANNOUNCEMENT**

## PHOTOS:

September Dinner Meeting Highlights

October ICRI Chicago Chapter Seminar Highlights



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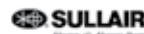
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## CALENDAR OF EVENTS

## NOVEMBER

- 20 **Dinner Program Topic:  
FRP Strengthening Systems  
Using New ICRI 330  
Guide Specifications**  
*Westwood Tavern  
Schaumburg, IL  
Event Starts 5:00 PM / Dinner 6:00 PM*
- 29 **Holiday Social**  
*Pyramid Pizzeria  
236 West Lake Street, Addison, IL  
Event Starts 5:30 PM*

## DECEMBER

- 31 **Deadline for 2018 ICRI Chicago  
Chapter Project Award Registrations**

## OUR ASSOCIATION...

ICRI, the only association in the concrete industry devoted solely to repair and restoration, publishes a bimonthly magazine and technical guidelines for concrete repair, and cosponsors the World of Concrete. Local chapters provide regional networking opportunities. Worldwide membership include contractors, manufacturers, engineers, distributors, owners, and other professionals with a common goal: prolonging the useful life of concrete through quality repair, restoration, and protection.

## OUR MISSION...

The mission of the International Concrete Repair Institute is to be a leading resource for education and information to improve the quality of repair, restoration, and protection of concrete and other structures in accordance with consensus criteria.



## LETTER FROM OUR PRESIDENT



As the Winter Season creeps up on us and the temperatures start to drop, the big push is on to get our projects buttoned up for the 2018 season. Once completed, we can all start to plan for next year's workloads. Based on discussions with other ICRI members, this has been a good year for restoration work: numerous new projects started and several multi-season projects continued.

As the construction season is coming to an end, the sun is also setting on my term as president. I would like to thank all of the Chicago Chapter members for their participation and attendance at the meetings and social events. I would especially like to thank the fellow board and committee members for their help making the meetings and events successful. It's been an honor and a privilege to represent the Chicago Chapter as president in 2018.

I'm not completely done yet with my role as president, I will be one of several attendees representing the Chicago Chapter at the fall convention in Omaha November 7-9. If you have never attended the national convention, I would strongly urge you to do so. The networking and interaction that we have at the chapter level is tenfold at the national conventions. You will interact with people from all over the country, as well as the world, discussing different twists on similar problems.

I would also like to invite everyone to attend our November dinner meeting on FRP Strengthening Systems Using the New ICRI 330 Guide Specification on Tuesday November 20th at the Westwood Tavern. Also, our holiday social is coming up on Thursday November 29 at Pyramid Pizzeria in Addison

As the severe weather conditions seem to be increasing, so does the repair and restoration work! The value and the need to get more people involved in ICRI training certification and education is important and I urge everyone to get more actively involved

Thank you,

*Jim Fadellin*

ICRI Chicago Chapter President



**CHICAGO CHAPTER 2018 OFFICERS & DIRECTORS**

The 2018 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Jim Fadellin.

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SEPTEMBER DINNER MEETING HIGHLIGHTS

On September 18, 2018, Erie Café hosted an enlightening event for the Chicago Chapter of ICRI. The Dinner Meeting featured Ken Lozen, FICRI, FACI, ICRI's Technical Director. His presentation included ICRI Concrete Surface Repair Technician (CSRT) Certification Program and its impact on the ACI 562 Repair Code.

The presentation started with the discussion of the ICRI CSRT certification program, the need for qualified inspectors on repair projects, and the importance of pre- and post-placement inspections and testing. The ACI 562 Repair Code and its influence on repair projects and ICRI was highlighted including the need for inspectors of prepared concrete surfaces. Ken touched on the state of the Concrete Slab Moisture Testing Technician (CSMTT) Certification Program. The future of the ICRI activities including educational and certification products under development were also presented.

We would like to thank Ken Lozen for braving intense back problems, still traveling to Chicago, and making the presentation. As usual, Erie Café's Prime Rib and the presentation were enjoyed by all.



## OCTOBER ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS

## Topic: Anchoring to Concrete

The ICRI Chicago Chapter Seminar on Anchoring to Concrete was hosted by Wiss, Janney, Elstner Associates, Inc. (WJE) at their Northbrook office. Don Meinheit and John Pearson of WJE, Michael Morrison from ACI, and Chris Fieweger of Hilti presented various topics for cast-in-place and post-installed concrete anchors, and project site silica collection issues. A hands-on portion of the seminar was conducted in WJE's new laboratory, and included anchor installation presentations from ITW Ramset Redhead, Simpson-Strongtie, DeWalt (Powers), and Hilti. WJE laboratory personnel performed live load tests of anchor installations to produce various anchor failure types. Over 40 ICRI members attended the seminar and learned about design and installation of cast-in-place and post-installed concrete anchors. Knowledge gained from this seminar assisted both the engineers and contractors in attendance on their own concrete restoration projects.

The morning presentation included basic behavior and design of anchors, and qualifications of post-installed anchors. Various types of concrete cast-in-place and post-installed anchors were discussed from the view of an engineer as well as a contractor. Photographs depicting examples of various concrete anchor failure modes were presented. Influences of geometric constraints of the anchors, with regards to the anchor capacity, were discussed for both tension and shear loads. The generation of the simplistic concrete cone breakout design equations used in the ACI 318 code for predicting anchor capacity, as well as several factors used to account for anchor geometry, anchor location within the concrete, and concrete condition (uncracked versus cracked) were discussed. Differences between how headed studs and anchor bolts behave within hardened concrete were explored. The actual definition of post-installed anchors, why anchors are qualified, the testing required to qualify an anchor, and how engineers and architects use test results to design post-installed anchors were explained. Several case studies with anchor failures were presented, including Boston's "Big Dig" tunnel ceiling panels, Atlanta's 17th Street Bridge canopy, and Phoenix's Sky Train ride plate. Sustained loading of anchors and incorrect adhesive installation were reasons for the adhesive anchor failures, while engineering judgement with regard to loads was the cause of the other failure.

Chris Fieweger of Hilti headed a discussion on the OSHA requirements for silica dust control at project sites. Several contractors and material suppliers contributed to the discussion. Based on the discussions, to date, no contractors in the Chicagoland area indicated they have been cited for silica control violations by OSHA.

In the laboratory, each manufacturer presented correct procedures for installation of their anchors, as well as correct usage of several different silica dust control devices and vacuums. The anchor installation demonstration included: chemical anchors, concrete screws, drop-in anchors, expansion bolts, sleeve anchors, under-cut anchors and hollow block anchors. After the manufacturers' completed their anchor installations, WJE laboratory personnel tested several different anchor types and configurations to generate various anchor failure types including: chemical anchor bond failure, mechanical anchor pull-through failure, concrete cone failure, and steel anchor failure.



OCTOBER ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS

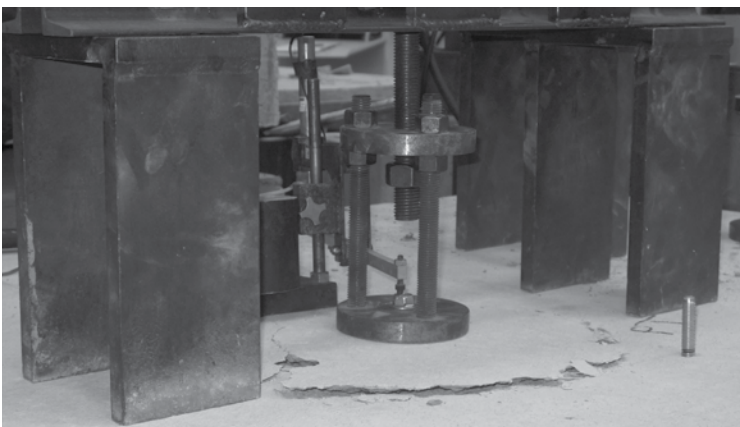
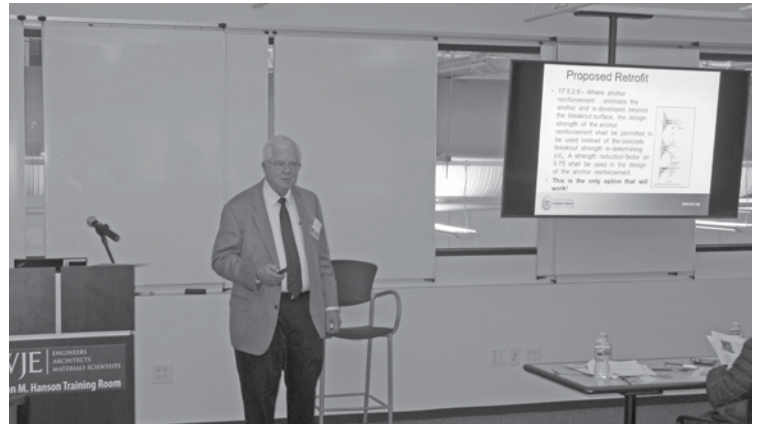


The day ended with presentations on inspection and testing of adhesive anchors and certification of adhesive anchor installers and adhesive anchor inspectors. Special inspection requirements for post-installed mechanical and adhesive anchors as well as cast-in-place anchors were discussed. Special Inspectors should observe the drilling and cleaning of the holes, and placement of the anchor and adhesive. They should also ensure the anchor is not moved during the curing process, and that thread contamination is minimized. It was also discussed that ACI 318-19 will have periodic and continuous inspection requirements for mechanical and adhesive anchors. The history and evolution of the adhesive installer and inspector programs was also discussed. Videos were presented highlighting the written test and hands-on adhesive installation test requirements needed to become a certified adhesive anchor installer and inspector.

ICRI would like to thank WJE for allowing the seminar group to use their learning center as well as their laboratory for the presentations, anchor installations and anchor testing. We would also like to thank each of the presenters and manufacturers who assisted with this seminar: Don Meinheit, John Pearson, Michael Morrison, Chris Fieweger, Hilti, Dewalt (Powers), Simpson-Strongtie, and ITW Ramset Redhead. The food and refreshments were sponsored by Hard Surface Solutions, Western Specialty Contractors, William Hach & Associates, and Raths, Raths & Johnson, Inc. Thanks also goes out to the seminar committee for their time and effort put into the preparation of this successful seminar.



OCTOBER ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS



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**HOLIDAY PARTY**

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Thursday, November 29, 2018 at 5:30 PM

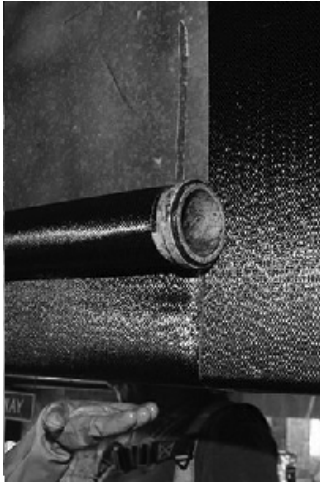
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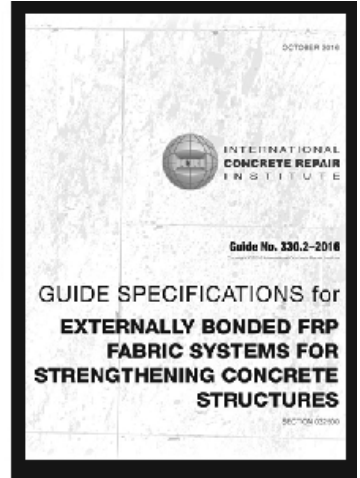


## NOVEMBER DINNER MEETING ANNOUNCEMENT



## Dinner Meeting & Industry Education Seminar FRP Strengthening Systems (PDH Available)

**Tuesday, November 20th  
5-8 PM @ Westwood Tavern  
Schaumburg, Illinois  
Register Today**



Join us at our November Dinner Meeting where Gregg Blaszak of Milliken Infrastructure Solutions will present:  
**FRP Strengthening Systems Using the New ICRI 330 Guide Specification**

Overview: The presentation will focus on the NEW ICRI 330 Guide Specifications for Externally Bonded FRP Fabric Systems for Strengthening Concrete Structures. The guide is used to aid Licensed Design Professionals in the preparation of technical specifications for inclusion directly in contracts for construction of repairs involving FRP systems that are in line with the state-of-the-art materials and methods. Design of FRP systems is outside the scope of this Guide. The guide is based largely on the information contained in ACI 440.2R "Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures."

### 2019 ICRI SPRING CONVENTION "WATERPROOFING WITH AESTHETICS: MAKING IT DRY AND APPEALING TO THE EYE"

Plan to join the International Concrete Repair Institute in Jacksonville, Florida – Expand your understanding of concrete waterproofing through networking, technical sessions, and participation in ICRI National Committee Meetings. Earn PDH credits by attending technical sessions.



**When:**  
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# Call for Entries

## 2018 ICRI Chicago Chapter

### OUTSTANDING Concrete Repair Projects



## AWARDS PROGRAM

**Award Criteria.** Entries will be judged on uniqueness, use of current technologies & materials, functionality, value engineering and aesthetics. The Judges - ICRI Chicago Chapter Awards Board of Directors and Committee Members - consist of Engineers, Contractors and Manufacturers working within the Concrete Repair Industry.

**Eligibility.** The project must be at substantial completion phase by October 1<sup>st</sup>, 2018. A single-phase of a long term project may be submitted provided it meets the same timeline. Concrete repair or restoration must be the MAJOR component of the overall project. The project must be designed, performed or supplied by an ICRI Chicago Chapter member.

**Deadline for Entry.** The deadline for receipt of the entry application is DECEMBER 31<sup>st</sup>, 2018 to:

**[AWARDS.ICRI.CHICAGO@GMAIL.COM](mailto:AWARDS.ICRI.CHICAGO@GMAIL.COM)**

**Awards.** Winning Projects will be announced in the February issue of the Concrete Reinforcer and presented at the ICRI Chicago Chapter 2019 February Dinner Meeting  
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No. 03730	Guideline for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion	\$ 16.00
No. 03731	Guideline for Selecting Application Methods for the Repair of Concrete Surfaces	\$ 16.00
No. 03732	Guideline for Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymers Overlays - Guideline Only	\$ 28.00
No. 03732P	Guideline for Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymers Overlays - Guideline and Concrete Surface Profile Chips	\$106.00
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No. 03735	Guidelines for Methods of Measurement and Contract Types for Concrete Repair Work	\$ 28.00
G 03736	Guideline for the Evaluation of Unbonded Post-Tensioned Concrete Structures	\$ 28.00
G 03737	Guideline for the Preparation of Concrete Surfaces for Repair Using Hydrodemolition Methods	\$ 28.00
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G 03739	Guideline to Using In-Situ Tensile Pull-Off Tests to Evaluate Bond of Concrete Surface Materials	\$ 28.00
G 03741	Guideline for Design, Installation, and Maintenance of Protective Polymer Flooring Systems for Concrete	\$ 28.00
G 03742	Guideline for the Selection of Strengthening Systems for Concrete Structures	\$ 28.00
G 03743	Guideline for the Repair of Unbonded Post-Tensioned Concrete Structures	\$ 28.00

To Purchase any of the above Bulletins or Guidelines, please contact: Sean Meracle, Chapter Treasurer at 312-666-5245 or [sean.m.meracle@sherwin.com](mailto:sean.m.meracle@sherwin.com)

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