

February 2017

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



CHICAGO CHAPTER

EDUCATION COMMUNICATION PARTNERSHIP

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- 2017 STATE-OF-THE-ART
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- FEBRUARY DINNER
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ANNOUNCEMENT
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HIGHLIGHTS
- **PHOTOS:**
ICRI Spotlight
November Dinner Meeting



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CALENDAR OF EVENTS

FEBRUARY

- 15 **Dinner Program: Joint Meeting with ACI Adhesive Anchor Certifications**
Erie Café
Chicago, IL
Event Starts 5:00 PM / Dinner 6:00 PM

MARCH

- 15-17 **ICRI Spring Convention "Bridges and Highways"**
LeWestin Montreal
Montreal, Quebec CAN

APRIL

- 18 **Dinner Program: Chapter Project Award Ceremony**
Westwood
Schaumburg, IL
Event Starts 5:00 PM / Dinner 6:00 PM

JUNE

- 8 **Chapter Golf Outing and Scholarship Fundraiser**
White Pines Golf Course
Bensenville, IL

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 I take on the role of president here in 2017, I reflect back on how the chapter has evolved over the last several years. From my perspective, we have a perfect blend of educational and social events, which is what makes ICRI such a great organization. I would like to thank past presidents and Board Members for their commitment to the continued growth of ICRI. I especially want to thank last year's president Sean Meracle who, in my opinion, has been instrumental in making this chapter what it is today through his involvement over the past decade. I can only hope to carry the torch proudly. We had some great events last year and your Board of Directors and Committee Members are working hard on more great events this year.

When I consider what ICRI represents, I cannot help but think of one of my favorite movies of all time, Top Gun. While I admit the reference is beyond cheesy, the premise of people that are the best at what they do who are working to get better is inspiring. It certainly has been inspiring for me to see industry leaders striving to improve their technical knowledge and grow their professional relationships. That is exactly what ICRI has done for me, and I hope it has for you as well.

The concrete repair industry is not going away. As structures age, the need for repairs will continue to grow and so will the need for qualified professionals to address those repairs. We have a unique opportunity in our organization and throughout the construction industry to help raise the bar for the quality of concrete repairs. One of my goals this year as president is to expand education and networking opportunities through inter-organizational communication and events.

Unique to our organization, and specifically our Chicago Chapter, is that although the field is competitive, egos get checked at the door. As I watch the interaction among Board Members within committees and throughout general membership, I am always impressed with the level of professionalism shown when working directly with close competitors towards a common goal. There is no question we can all learn from each other. That is how we stay fresh. That is how we maintain our role as leaders in this industry. That is how we continue to grow as a well-respected organization. For every company that is committed to being involved in industry organizations like ICRI, there are probably 3 others that do not invest in those opportunities. Those other companies represent potential for growth and new blood in our organization. I challenge all members to reach out to those not currently represented in ICRI and encourage their involvement. I did not know many people in the concrete repair industry when I first joined ICRI in 2012. That gradually changed after coming to a few dinner meetings, and accelerated exponentially after joining the Board and becoming more involved with events. If you are hoping to get the most out of your membership, then I encourage you to get involved with a committee. We are also always looking for future Board Members, so please ask me or another Board Member if you're interested.

I am looking forward to another great year. I hope to see everyone at the joint dinner meeting with ACI on February 15th and the other great events we have planned for this year. Also, keep your eyes open for a new and improved ICRI Chicago Chapter website, which we plan to unveil in the Spring.

Sincerely,

Christopher Kottra
 ICRI Chicago Chapter President



CHICAGO CHAPTER 2017 OFFICERS & DIRECTORS

The 2017 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Sean Meracle.

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NOVEMBER DINNER MEETING HIGHLIGHTS

On November 8, 2016 the Chicago Chapter of the ICRI held a dinner meeting at Erie Café that featured a panel discussion about bidding documents. The panel included representatives from local engineering firms, contractors and manufacturer’s reps to provide unique perspectives on reviewing and analyzing bidding documents. The conversation was very lively, including significant audience participation, and helped attendees understand the strengths and shortcomings of commonly used bidding documents. People left with a better understanding of what to look and more insight into the different perspectives when reviewing bidding documents.

A special thanks to our panelists for making this dinner meeting possible:

- Bill Leonhard**
Allied Waterproofing, Inc.
 - Kyle Stanish**
Klein & Hoffman, Inc.
 - Kurt Baron**
Infrastructure Systems, Inc.
 - Ryan Carris**
Carl Walker, Inc.
- Co-Moderators:
Chris Kottra and Sean Meracle





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HOLIDAY SOCIAL HIGHLIGHTS

Who doesn't love to golf? This year, the Chicago Chapter took this to the extreme and hosted our annual Holiday Social at the state of the art TOPGOLF in Naperville. In a very well attended event, ICRI members were able to treat themselves to a few extra hours at the driving range, all while enjoying a full cash bar, food and much needed heaters. As always, this event included raffles (which supported the 'Feed My Starving Children' charity) and our annual Texas Hold 'em tournament.

A special thank you to our sponsors and members who helped support a very worthy cause.



ICRI SPOTLIGHT: 2016 PROJECT AWARD

SCOPE OF WORK

The Hilton Orrington Parking Garage is a stand-alone parking facility located adjacent to the Hilton Orrington Hotel in Evanston, Illinois. The project was a renovation of the interior of the four floor facility, originally constructed in the mid-1920s. The scope of work included demolition and replacement of deteriorated concrete ramps, columns, and beams, as well as ancillary HVAC, electrical, and fire alarm work necessary to bring the facility to current code standards. Interior concrete had degraded due to the corrosive action of chlorides and natural life-cycle deterioration to the point where falling concrete posed a safety concern. McHugh Construction acted as the general contractor on the project, and in tandem with the design engineer, CTL Group, and the key subcontractor, Western Specialty Contractors, adjusted to various project challenges including unforeseeable deterioration in reinforcing steel. The nine-month project was completed for a cost of \$3.3 million dollars, and resulted in extended lifespan and utility necessary to support the hotel's parking requirements going forward.

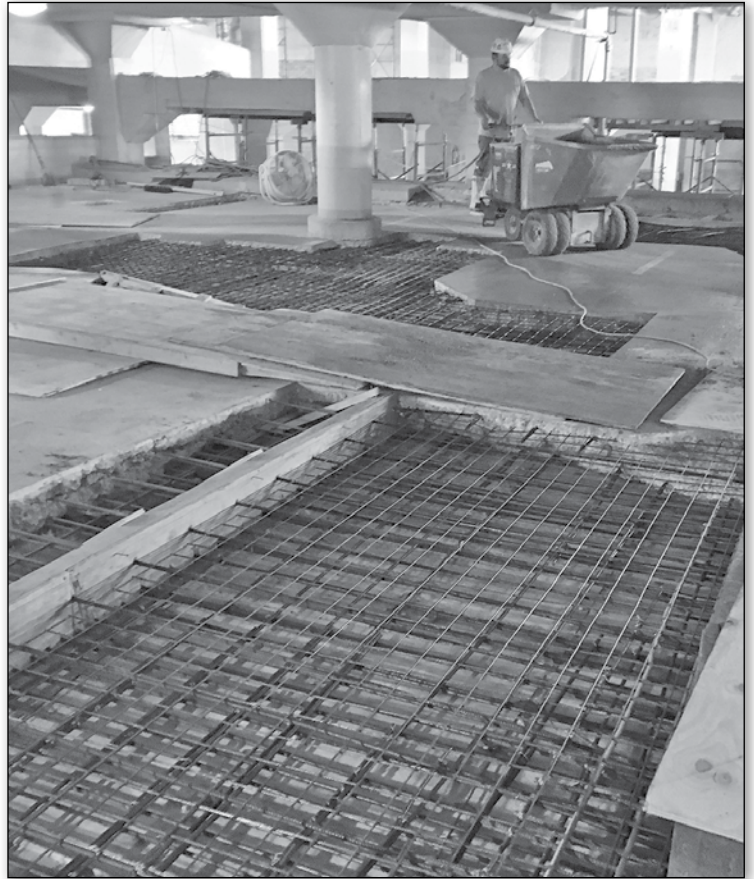
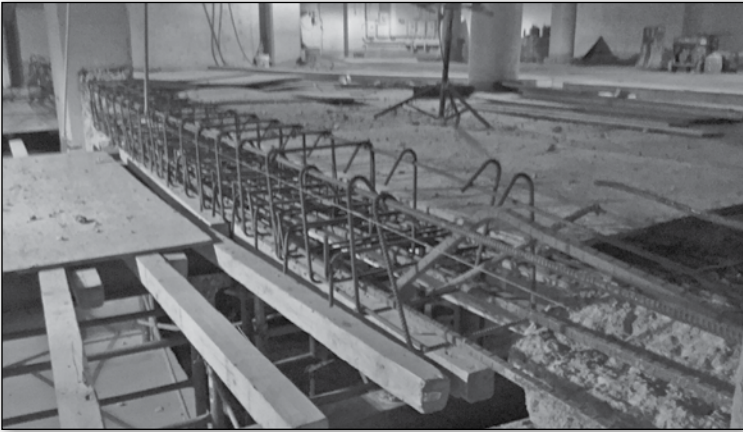
SUMMARY OF THE REPAIR

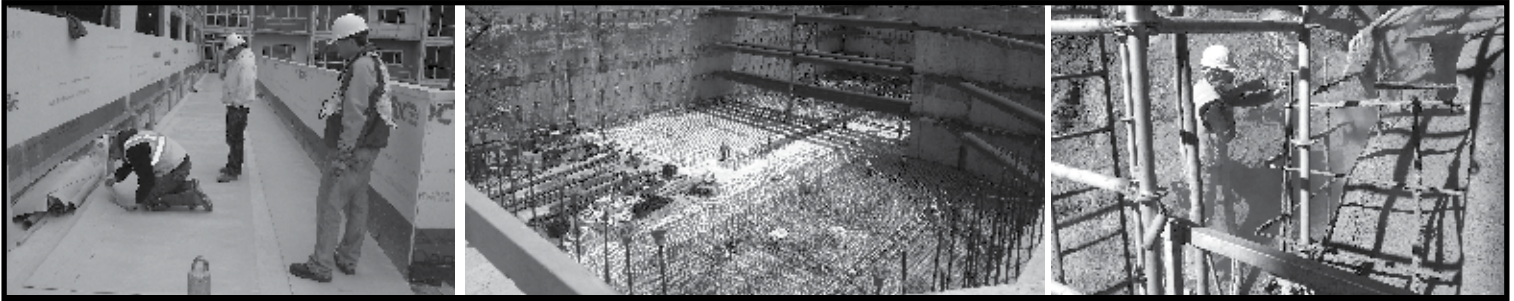
The concrete parking garage restoration project at the Hilton Orrington in Evanston, Illinois was a difficult, but successful, project for many reasons. As with most restoration projects, there are many unknown conditions of the structure that cannot be determined until the repairs actually get underway. In addition, working in and around an occupied building, presented another set of challenges to overcome. This project was extremely difficult to accomplish due to the advanced age and deterioration of the parking decks, beams and columns within the garage. Based upon public records, the parking garage was constructed prior to 1926, but original construction documents were not available to verify its exact age. Despite the need for repairs, the continued operation of this parking garage was determined to be key to the successful operation of the adjacent hotel. Therefore, the garage could not be shut down for extended periods of time, and could not go off line to be removed and replaced. The first floor was partially occupied by small local businesses, and construction noise, dust and disruption had to be limited to preserve the ongoing businesses. Occupant safety had to be addressed since construction activities could dislodge concrete spalls above the ceilings in the occupied spaces. The Owner only allowed "noisy" repairs to be performed three (3) days a week, and the City of Evanston Ordinances also had to be considered and followed.

The results of multiple generations of previous, un-engineered repairs complicated the garage evaluation. Excavated openings revealed unattached amalgams of various types, sizes and arrangements of reinforcing steel in each opening. This required repair excavations to grow significantly in order to uncover sound, reinforcement and concrete. Western Specialty Contractors worked closely with CTL Group and McHugh Construction to coordinate excavations with site observations since each opening required custom engineering to address the uncovered conditions. The repair locations were quite large, resulting in on average close to twenty (20) yards of concrete material, or two (2) truckloads, for each patch. On average, eight (8) men were onsite for the duration of the project, mainly because only certain sections of the garage were allowed to be repaired at a time. The deck is four (4) levels, with the first two (2) levels still needing availability for parking, and where most of the repairs were found. Creative solutions, such as eliminating a portion of the topside and underside repairs to a true full-depth repair, along with phasing, on this aging cast-in-place 8" to 10" concrete slab, circumvented doubling the project schedule even though the repairs quantities doubled. Only three (3) months were added to the original six (6) month schedule, due to collaboration by all parties including the General Contractor, the Engineer of Record, and the restoration contractor.



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April 18, 2017
at the
Westwood Tavern
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ANNOUNCEMENT

THE GLENROCK COMPANY'S ANNUAL "STATE OF THE ART SHOW"

Thursday, March 30, 2017

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Where:

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CHICAGO CHAPTER
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2016 Project Awards



Tuesday, April 18th
Westwood Tavern
Schaumburg, IL



Joint
Membership
Meeting



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Wednesday, February 15th, 2017
Event Start 5:00pm / Dinner 6:00
Erie Cafe - Chicago, IL



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Call for Entries

2017 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 1st, 2017. 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, 2017** to:

Awards.ICRI.Chicago@gmail.com



Awards. Winning Projects will be announced in the November issue of the Concrete Reinforcer and presented at the ICRI Chicago Chapter 2018 February Dinner Meeting & Educational Seminar.

Complete Rules and Entry Forms can be reviewed and downloaded from www.icrichicago.org

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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
No. 03733	Guideline for Selecting and Specifying Concrete Repair Materials	\$ 28.00
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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

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