

November 2017

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



CHICAGO CHAPTER

EDUCATION COMMUNICATION PARTNERSHIP

THIS ISSUE:

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PHOTOS:

- Seminar Highlights
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CALENDAR OF EVENTS

NOVEMBER

28 **Dinner Program**

Avoiding Mistakes in Concrete Repairs,
Predrag Popovic

Westwood Tavern – Schaumburg, IL
Event Starts 5:00 PM / Dinner 6:00 PM

DECEMBER

7 **Holiday Social Outing**

Pyramid Pizzeria
236 West Lake Street, Addison, IL
Festivities start at 5:30 PM

31 **Entry Deadline**

2017 ICRI Chicago Chapter Outstanding
Concrete Repair Projects

Enter at Awards.ICRI.Chicago@gmail.com
Awards presented at February
Dinner Meeting

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 2017 winds down, I look back on what a year it has been. Most people I have spoken with have indicated that there was plenty of work available this year keeping them very busy. That is a great sign for things to come as it seems building owners are more willing to spend money on repairing their facilities. There will always be new challenges. This year, which brought new certification programs and regulations in jobsite safety, was no exception. The Chicago Chapter of ICRI has always strived to provide programs relevant to the industry's hottest topics. Our dinner meeting in February highlighted innovative award-winning projects from 2016. In a joint meeting with ACI in April, adhesive anchor certification programs were discussed. OSHA's regulation on silica exposure was the focal point of the roundtable discussion in September. Our seminar held in October summarized the latest trends in corrosion mitigation. The upcoming November dinner meeting will include a presentation on avoiding mistakes in concrete repairs, and I hope to see everyone at Westwood Tavern in Schaumburg for this informative session.

ICRI Chicago has also tried to sprinkle in a fair share of social events throughout the year. The golf outing in June was another big success raising funds for student scholarships. The Cubs rooftop event in September was a great opportunity to take in some fall baseball, and catch up with our colleagues. Our holiday party is sure to be a good time as well. This year's holiday party will be held at Pyramid Pizzeria in Addison. As a thank you to our members for your support and participation throughout the year, admission to our holiday party will be free of charge.

Serving as president this year has definitely been rewarding. I was able to get to know more of you at our various events, and I have learned to appreciate the hard work of my predecessors. ICRI Chicago is a volunteer organization, meaning there is no paid staff behind the scenes at the local level keeping everything running. Everything from communication to educational events to social outings are all planned and executed by the officers, board of directors, and their committee members. These committed individuals volunteer their time and efforts to help ensure ICRI Chicago remains a premier industry organization. That should not go unrecognized. As such, I personally want to thank all the board and committee members for their hard work this year. Let's not stop there, though. I hope we can pass the torch on to future boards that can take what we have done and continue to improve upon and refresh it. If you are interested in helping to carry that torch, please reach out to a board member. It is a great opportunity to influence future programs, and make changes to our organization.

Thank you for your continued involvement in ICRI. I wish everyone a safe and happy holiday season and I look forward to seeing you all soon.

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, Chris Kottra.

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SEPTEMBER DINNER MEETING HIGHLIGHTS

On September 26, 2017 The Chicago Chapter of the ICRI held a panel discussion on OSHA's new crystalline silica rules. The panel members included Julio Ayala from Bosch, James Garsika from Black and Decker/Dewalt, and Eric Olsen from Western Specialty Contractors. The panel was moderated by Tom Steele from Quality Restorations.

The purpose of the event was to help attendees gain a better understanding of the Respirable Crystalline Silica Rule that was recently enacted by OSHA. The rule has a very profound effect on the industry, and the process of becoming compliant can be daunting for the unprepared contractor. Our panel members were able to clearly breakdown the requirements of the rule, including existing dust collecting equipment that is readily available and OSHA compliant. The discussion also addressed some of the vagueness of the new rule, such as performing tasks for which OSHA has not already outlined approved dust collection protocols and manufacturers have yet to develop adequate containment systems.

The discussion was very in depth and informative. All attendees left with a more thorough understanding of the new guideline, however some questions still remain. Legal ramifications from pulmonary exams, protocols for containing certain silica generating tasks, results from legal actions challenging this guideline and compliance enforcement all remain unknown.

The event was very well attended and the food was superb as usual. We look forward to more events at the Erie Café.





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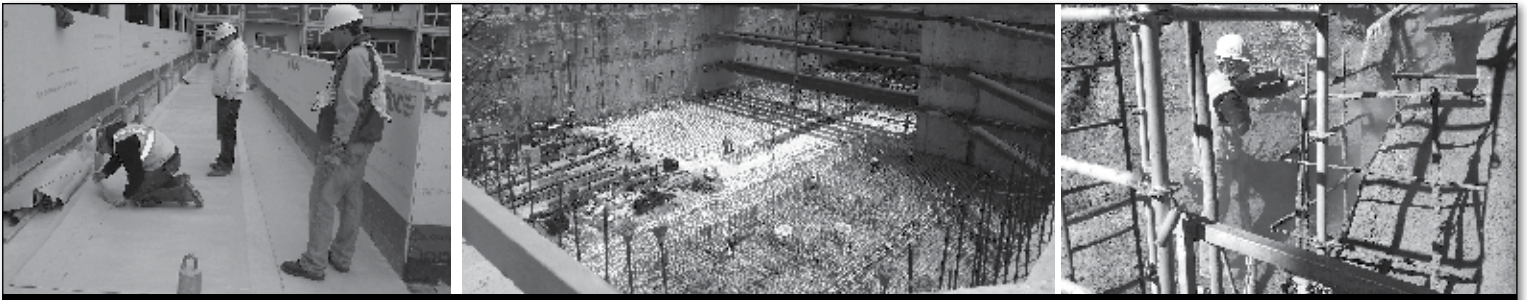
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ANNOUNCEMENT

THE GLENROCK COMPANY'S ANNUAL "STATE OF THE ART SHOW"**Thursday, February 15, 2018**

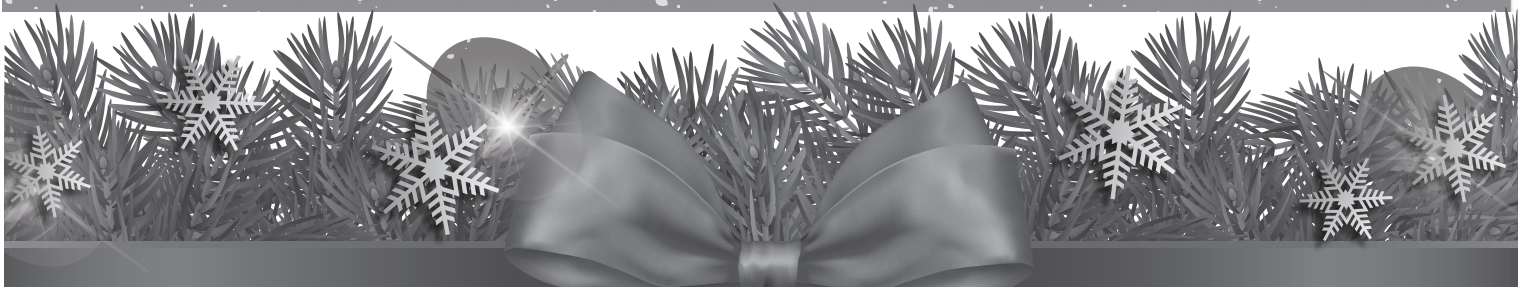
The Drury Lane Theatre (Rte. 83 and Roosevelt Rd., Oakbrook Terrace)

4:00 p.m. to 8:00 p.m.

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industry since 1967!***2017 Holiday Party**Join us @ PYRAMID PIZZERIA
236 West Lake Street - Addison
Thursday, December 7th @ 5:30pm***FREE for Chicago Chapter Members***

OCTOBER ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS

Topic: Corrosion Mitigation

The ICRI Chicago Chapter Seminar on Corrosion Mitigation was co-presented by Dave Whitmore and Lisa Viker of Vector Corrosion Technologies (Vector), Dave Olsen and Heath Morrall of Euclid Chemical Company (Euclid), and Dave White of Sika Corporation (Sika) on October 19, 2017. Over 30 ICRI members attended the seminar and came away with knowledge and resources they can use on their own concrete restoration projects.

Vector started the seminar off with a presentation on the science behind concrete reinforcement corrosion (electrochemical corrosion cell) and several ways to mitigate it. The in-place concrete anode and cathode electrical process was presented in clear and concise detail. Several different schemes of mitigating corrosion were presented including galvanic systems, electrochemical treatments, and impressed current systems. Each system was discussed in detail highlighting their advantages. Vector discussed the need for variable size and shape sacrificial anodes and zinc coatings used as sacrificial anodes and described the differences between the electrochemical treatments, chloride extraction and re-alkalization. The benefits of the impressed current systems were discussed as well as the need for maintaining these systems and monitoring corrosion rates. Corrosion potential and corrosion rate testing capabilities were discussed as well.

Euclid also presented the benefits of their galvanic anodes. Euclid stressed the need for the galvanic anodes near the perimeter of the patches to prevent corrosion of the steel reinforcement within the parent concrete adjacent to the concrete patch, the "anode ring effect." While also touching on the science behind the need for the galvanic anodes, Euclid highlighted the differences between their new Silver and Gold galvanic anodes. Euclid also demonstrated the proper installation of their galvanic anodes on the reinforcement within a mock-up concrete patch. They also stressed the use of cementitious concrete patching material immediately adjacent to the galvanic anodes. Euclid highlighted the need to keep water away from the concrete patches to remove one of the catalysts for corrosion.

Sika presented a corrosion mitigation case study of the Longfellow Complex twin towers in downtown Boston on the Charles River. The tower's facade consisted of exposed cast-in-place concrete columns, balcony slabs and floor slab edges. An engineering building evaluation revealed concrete spalls and delaminations, concrete carbonation, poor reinforcement cover, and chloride contamination of the concrete. The project engineers performed a full condition survey including concrete openings to expose reinforcement, and half-cell potential tests to predict the potential for corrosion. Based on the results of the condition survey and testing program, the engineers prepared a repair scope which included concrete patching and the application of corrosion inhibitors and elastomeric coatings. The project has been remotely and continuously monitored for corrosion rates since repairs were completed in 2003 and 2004. In 2015, both buildings were visually inspected from grade. No cracking or spalling was observed, confirming the remote corrosion rate monitoring results.

ICRI would like to thank all the speakers and sponsors: McCann Industries, Inc., Western Specialty Contractors, Glenrock Company, Vector Corrosion Technologies, Euclid Chemical Company, and Sika Corporation.





2018 CUBS ROOFTOP EVENT HIGHLIGHTS



Our Annual CUBS Rooftop Social Event was held on Friday, September 8th. Due to the chase for the playoffs, the game was pushed back for a rare Friday night game at Wrigley. The event was extremely well attended and allowed members to network and socialize outside of the normal arena. Unfortunately, the Cubs lost to the Brewers that night, but this minor setback did not stop the Cubs from winning the division once again. Our social committee works very hard to provide opportunities for our members to enjoy time with their colleagues outside of work, and we all appreciate the time they take to make events like this possible.



ICRI Chicago Chapter Summer Event CUBS ROOFTOP



SEPTEMBER DINNER MEETING ANNOUNCEMENT

Join Us @ Our November Dinner Meeting
as we discuss

AVOIDING MISTAKES IN CONCRETE REPAIRS



Presented by: Predrag (Pete) Popovic of WJE
Tuesday, November 28th - 5:30 PM
Westwood Tavern - Schaumburg, IL

The process of concrete repairs or structural retrofit generally includes evaluation of an existing structure and its design or as-built capacity, design of the required repairs, and the construction of designed repairs. If the evaluation was not done properly, the design may not address the causes of the structural deficiencies and the repair will not be adequate. After proper evaluation of the existing conditions and design of appropriate repairs, it is important that the construction of the repairs be performed properly. Failure of any of these steps may result in inadequate or faulty repairs. This presentation discusses, in more detail, the specific projects and the mistakes made during the concrete repair process.

Presented by: Predrag L. Popovic, S.E., P.E.
Vice President
Wiss, Janney, Elstner Associates, Inc.

Location: Westwood Tavern
1385 N. Meacham Rd.
Schaumburg, IL 60173

Tickets: \$55.00 One Attendee

2018 ICRI SPRING CONVENTION

Plan to join the International Concrete Repair Institute (ICRI) in San Francisco, CA— the best opportunity for novice and seasoned professionals to expand your understanding of concrete repair, protection and restoration at the convention through networking, technical sessions, earning PDH credits, and participating in ICRI Committee meetings.

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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
No. 03734	Guideline for Verifying Field Performance of Epoxy Injection of Concrete Cracks	\$ 28.00
No. 03735	Guidelines for Methods of Measurement and Contract Types for Concrete Repair Work	\$ 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

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