

February 2014

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



CHICAGO CHAPTER

EDUCATION COMMUNICATION PARTNERSHIP

THIS ISSUE:

- **DINNER MEETING ANNOUNCEMENT:** Concrete Waterproofing with Crystalline Technology
- **2013 NATIONAL CONVENTION HIGHLIGHTS**
- **NOVEMBER DINNER MEETING HIGHLIGHTS**
- **ICRI CHICAGO CHAPTER SEMINAR HIGHLIGHTS**
- **HOLIDAY SOCIAL HIGHLIGHTS**
- **CHAPTER MEMBER SPOTLIGHT: RATHS, RATHS & JOHNSON, INC.**
- **PHOTOS:**
November Dinner Meeting
Holiday Social
Chapter Member Spotlight
National Convention
Seminar





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CALENDAR OF EVENTS

FEBRUARY

- 18 **Dinner Meeting: Chemical Resistant Waterproofing Chemicals- Sandy Bradford-Dice with Xypex Carmichael's Chicago IL**

MARCH

- 3 **Scholarship Application Available**
- 12 **Glenrock Company's 30th Annual "State of the Art" Show**
Drury Lane Theatre
Oakbrook Terrace, IL
- 19-21 **ICRI Spring National Convention "Infrastructure Repairs"**
Peppermill Resort Spa & Casino
Reno, NV

APRIL

- 5 **Scholarship Application Deadline**
- 19 **Scholarship Award Announcement**

JUNE

- 5 **SAVE THE DATE!! 19th Annual Scholarship Golf Outing**
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



Happy New Year from me and your 2014 Chicago ICRI Board members! We are excited and energized to help the chapter continue to be a leading resource for the concrete restoration industry. Each year, the chapter president provides goals for the board to help improve the chapter. This year is no different. My three main goals of 2014 are:

1. Increase internal and external communication.
2. Increase our membership and attendance to events by 10 percent
3. Achieve the Chapter of the Year

Now that many of us are in the electronic age, it is important for the chapter board to communicate in a timely, clear, and concise manner. The three main ways that the chapter communicates to our members are via email, our website (www.icrichicago.org), and the quarterly newsletter (Concrete Reinforcer). While each of these sources has its advantages and disadvantages, we hope that when you receive our chapter communication you take a minute and read it. Once you are done, you can forward it on someone that is a potential member! For the latest upcoming events and information, please check the website. We have worked hard to implement the website and are looking to improve it for your convenience.

The Chicago Chapter has had between 90 and 100 members since I have been involved over the past 5 years. While there is nothing wrong with keeping with something that works, there is room for improvement. I routinely see that our dinner meetings have attendees that are not members. While we are happy that the attendees are supporting our organization, we need to extend the membership invitation to them. As you get involved in this organization, you begin to realize that there are many valuable reasons to join. I personally have found that the organization has helped me learn about innovations in concrete industry, network with my peers (contractors, material suppliers, engineers, architects, etc.), and make a few friends along the way.

With any organization, the ultimate goal is to succeed at the highest level. For ICRI, that is the Chapter of the Year Award. A few years ago, our chapter won the Chapter of the Year. Our Board aspires to achieve this designation again. With your continued help and support, we will tip the scales in our favor and win the award! If you are asking how you can help, join a committee (<http://www.icrichicago.org/ChapterInfo/Committees.aspx>) and help the organization. You don't need to be on the Board to be on a committee, and the involvement only takes a few hours every month. If you are curious about joining a committee, talk to one of the board members at an upcoming event.

With that said, I wish each of you a happy, healthy, and prosperous 2014!

Alex Szatanek



CHICAGO CHAPTER 2014 OFFICERS & DIRECTORS

The 2014 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Alex Szatanek.

President	Alex Szatanek Thornton Tomasetti, Inc. 312-848-1487 aszatanek@thorntontomasetti.com	Vice President	Steve Genovese Harry S. Peterson 773-638-5206 steveg@harryspeterson.com
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ICRI CHICAGO CHAPTER CONTRACTOR SPOTLIGHT: RATHS, RATHS & JOHNSON, INC.

COMPANY PROFILE:

Established in 1966 as a structural engineering office, Raths, Raths & Johnson, Inc. (RRJ) has emerged as a nationally recognized consulting firm specializing in engineering, architecture, and forensics. RRJ's professional staff includes engineers and architects. Members of the professional staff hold licenses in 44 states plus the U.S. Virgin Islands. Globally, RRJ has worked on projects in Russia, Guam, Panama, Canada, Dubai, the Caribbean, and northern Africa. In 2013, the firm moved to its new corporate office in Willowbrook, Illinois.

Project assignments have encompassed all types of building construction and uses including industrial facilities, plazas, parking garages, bridges, temporary structures, sanitary facilities, and transportation systems. RRJ has been retained to investigate a wide array of design and construction-related issues that range from water intrusion and hygrothermal issues to various failures including structural collapse. In addition to providing consulting, design, and peer review services, the firm is often engaged to assist with assignments that involve legal disputes.

Investigations range from evaluating existing conditions and structural capacity to determining problem cause. Renovation and repair assignments often include designing modifications, corrections to deficiencies, as well as upgrading of both structural and architectural elements.

RRJ's structural and materials laboratory provides testing services following ASTM and other standardized industry protocols as well as project-specific methods. Capabilities also include quality assurance and diagnostic testing at the project site.

Raths, Raths & Johnson, Inc. applies proven engineering methods to understand the behavior of structures and components with the objective of explaining performance or providing sound technical solutions.

REPRESENTATIVE PROJECTS:

Miami Mover

The MIA Mover, an elevated, automated people mover located at the Miami International Airport, provides transportation between the terminal and the new rental car facility. The MIA Mover design incorporated dapped end prestressed concrete beams to support the vehicle guideway. When cracks were discovered at the beam ends shortly after fabrication of the initial beams, RRJ was engaged to help the design/build joint venture evaluate the cracks, modify reinforcing to limit cracking in yet to be cast beams, and resolve owners' concerns over load-carrying capacity and long-term durability.

Initial analysis and cracks observed on-site indicated that the beam end cracks were associated with prestress transfer, which is not uncommon for dap-ended beams and would not affect the load carrying capacity. Adjustments to the reinforcing significantly reduced the cracking in beams subsequently cast. A full-scale load test program was implemented before the beams were shipped to the site to demonstrate that the actual in-service crack behavior was benign. RRJ's investigation and testing concluded that beam capacity would not be compromised by the cracks, and crack treatment would not be necessary under FDOT criteria. The joint venture, however, in an effort to provide best practices, authorized crack treatment methods to ensure long-term durability. After reporting and discussing these findings to the owner, shipment of the beams to the erection site proceeded without further delay.



RRJ performed on-site testing to further verify and document the beam crack behavior under actual in-service load conditions (with vehicles operating) following erection of the guideway. RRJ designed and installed a network of electronic crack-width measurement devices, transmitters, and cameras at selected locations along the guideway to monitor crack movement on beams previously identified and in some cases tested. The devices were connected wirelessly to an on-site computer that stored the data and allowed remote monitoring via the internet. Several weeks of successful data collection yielded detailed information describing the behavior of the beam end cracks under varying load, temperature, and weather conditions.

RRJ's investigation and testing program demonstrated to the owner that the as-built construction provided acceptable strength and longevity.

(Continued on page 7)

ICRI CHICAGO CHAPTER CONTRACTOR SPOTLIGHT: RATHS, RATHS & JOHNSON, INC. (CONTINUED)

Fountain Square

Fountain Square is Cincinnati's most important and prominent outdoor civic space. Extensive renovation work completed in 2006 repaired accumulated garage deterioration and remodeled the public space, providing granite hardscapes, large planter boxes, revised garage access, and an additional water feature known as the Water Wall. In its current configuration, Fountain Square acts as the roof over the parking garage and basement portions of two adjacent private buildings that extend under the square.

Reports of water leaks through the plaza and into the spaces below began even as the renovation of the square was being completed in 2006. RRJ was engaged to investigate the leakage problems in 2008. Investigative techniques employed by RRJ included reviews of available drawings and photographs from the 2006 renovation, interviews with people knowledgeable of the 2006 renovation work, water leakage surveys from the garage and building basement spaces, making physical openings from the plaza to expose as-constructed conditions above some of the more persistent leak areas, and tracer dye testing to confirm leakage paths. Based upon the investigative findings, RRJ developed detailed repair drawings and specifications to address deficiencies in the plaza waterproofing, the expansion joints separating the parking garage and two adjacent building structures, and the trench drains used to collect and discharge surface and subsurface water. Repair work commenced in July 2012, with RRJ providing repair construction contract administration services.



909 Washington

909 West Washington is a 110-unit condominium building located in Chicago's West Loop. Built in 2005, the building has commercial spaces on the ground floor, two elevated parking levels and seven residential floors. The building's façade is a combination of exterior masonry with a concrete masonry unit backup wall on the parking levels and an exposed concrete façade with stucco accents on the residential levels. RRJ was retained to investigate reported cracking in the concrete façade, staining on the exterior masonry and water intrusion into the dwelling units.

RRJ tailored an investigative program to identify the sources of the reported problems that involved close-up examination of the façade, petrographic analysis of concrete samples and diagnostic water testing. Based on our findings, RRJ developed repairs to the exterior façade that included resloping of select terraces, replacement of failed sealant joints, replacement of stucco cladding, installation of an elastomeric coating on exposed concrete surfaces, and masonry repairs. RRJ also provided construction contract administration and site observation activities during implementation of the repairs.



ICRI CONTACT:

Kevin Conroy, S.E., P.E. – Senior Engineer

Kevin is active in ICRI at both the national and local levels and is currently a member of ICRI 150 and the secretary of ACI Committee 562 (Evaluation, Repair, and Rehabilitation of Concrete Buildings). He has over 12 years of experience in investigation and restoration of existing buildings.

COMPANY CONTACT:

Barbara Smith, S.E., P.E.

Director of Business Operations

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ICRI'S 25TH ANNIVERSARY FALL CONVENTION

Our great city was the host of ICRI's 25th Anniversary Fall Convention from November 13-15 at the Fairmount Hotel Downtown. This special occasion, themed as "Looking Back," was the most attended convention in the history of ICRI, which is representative of the growth that continues to strengthen both our organization and the concrete repair industry. You didn't have to look very far to find one of many Chicago Chapter Members who attended the Convention.

The Chicago Chapter also rose to the challenge of providing two great social events that were not only well attended but also received rave reviews! Those who joined us for "Whirlyball" got the chance to both learn and master this unique blend of bumper cars and lacrosse. It was a lot of fun and we got to see just how competitive some of our associates can be!

We spent Friday night at Buddy Guy's Legends, a local monument to the great Buddy Guy and a staple for any Blues enthusiast who visits Chicago. Close to 100 convention-goers and local members had a blast enjoying outstanding Blues music, great food and games. Thanks to all who attended and those who helped to organize these very successful events!



2013 NOVEMBER DINNER MEETING HIGHLIGHTS

On Tuesday, November 19th the Chicago Chapter of ICRI hosted a dinner meeting at Carmichael's Steak House in Chicago. The night began with a wonderful cocktail hour for networking. The meeting topic was a roundtable discussion on "The Pitfalls of Traffic-Bearing Membranes and How to Avoid Them on your Next Project". The panel consisted of representatives from each discipline within the industry. The representatives consisted of; Rick Cuttaia (Tremco), Bill Leonhard (Allied Waterproofing, Inc.), John Maher (BASF), Pat Martin (Carl Walker Inc.), & Mike Mastro (Sika Corporation). Mark Nelson (Nelson Testing Labs) was the moderator for the discussion. The roundtable discussion consisted of a series of questions related to; specifications, product selection, cost-effectiveness, proper installation, and the manufacturer's role. Following the discussion an open forum was held for all attendees to ask questions to members of the panel. There were over 90 attendees for this dinner meeting making it one of the largest attended dinner meetings in the Chicago Chapter's history.



HOLIDAY SOCIAL HIGHLIGHTS

On Friday, January 17th, 2014, the Chicago Chapter of ICRI hosted the 10th annual Holiday Social at the Fox & Hound, in Schaumburg, IL. The date was pushed back from the usual December event due to the ICRI National Convention delaying our normal schedule. Although it was a cold day in January, we had over 30 people who braved the weather and enjoyed an evening of pool, darts, and great food followed up with the traditional Texas Hold'Em Tournament. Collectively our organization donated over \$300.00 to charity.

The Texas Hold'Em tournament was once again run by Mike McCluskey of BASF. It started with 15 players of wide-ranging skill spread out over 2 tables. With the blinds doubling every 15 minutes, it didn't take long for the final table to be set. Ultimately, it was Craig Frier of Sika Corporation, who took home the championship. Congratulations to the remaining top five finishers: 2nd place winner Torrey Thompson of Carl Walker, Inc., 3rd place winner Alex Szatanek of Thornton Tomasetti, Inc., 4th place finisher Don Fichtel of IWS. This year's honorable mention goes to Nick Graziani of Sika Corporation, who was the first out!

Thanks to everyone who contributed to this event, especially Mike McCluskey of BASF and Sean Meracle of Sherwin Williams for their efforts in coordinating and running the event. Thanks also to those who attended this event and took a few minutes out of their busy holiday schedule to share some post-holiday cheer with their colleagues at ICRI.



**INTERNATIONAL CONCRETE REPAIR INSTITUTE
CHICAGO CHAPTER**



Date: Tuesday, February 18, 2014

Topic: "Concrete Waterproofing with Crystalline Technology"

FEATURED SPEAKER: Sandy Bradford-Dice from Xypex Chemical Corporation

Sandy Bradford-Dice from Xypex Chemical Corporation will present on the basic fundamentals of crystalline waterproofing technology. This presentation will touch on the science behind crystalline chemicals, and explore how these materials provide high performance waterproofing characteristics, durability, and reduce maintenance. Attendees will also learn about appropriate uses for crystalline waterproofing, application techniques, and how it can affect project construction costs.

This presentation, "Chemical Resistant Waterproof Concrete," is worth one (1) AIA Learning Unit (For AIA/CES credit, be sure to have your Membership Number with you.)

Sandy Bradford-Dice has been with Xypex Chemical Corporation since 2010 and represents Michigan, Ohio, and Northern Illinois. Her primary responsibilities include educating specifiers, applicator training, onsite technical assistance, as well as pre/post job inspections. Sandy works closely with architects and engineers on developing specifications for crystalline waterproofing, and provides dosage recommendations to ready-mix suppliers.

**CARMICHAEL'S CHICAGO STEAK HOUSE
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**Cocktails at 5:00 pm, Dinner at 5:30 pm, Presentation at 6:30 pm
\$50 – Dinner**

Seating is limited!! Please respond no later than noon on **February 14th** to assure a dinner.

Dinner Choices:

Prime Rib (PR)* Grilled Salmon in Sesame Ginger Glaze (S) Chicken Piccata (C)

**If we do not receive your RSVP by Tuesday, February 11th, you will not be able to order the Prime Rib.*

Name: _____ Dinner Choice: _____

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ANNOUNCEMENT

THE GLENROCK COMPANY'S 31ST ANNUAL "STATE OF THE ART SHOW"

Wednesday, March 12, 2014

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

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

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2013 ICRI SEMINAR HIGHLIGHTS

The Chicago Chapter of ICRI held a seminar on December 10, 2013 that emphasized the importance of proper surface preparation. This seminar highlighted chapter 310.2R-2013 of the ICRI Guideline.

The morning was comprised of informative classroom sessions including presentations by Pat Winkler of Rampart Hydro Services, Jay Paul and Terry McDonald of Klein and Hoffman and Ryan Donaldson of Jon-don, Inc. These presentations provided information on testing of surface cleanliness and profile, real world examples of the importance of proper surface preparation, and the wide variety of methods, included advantages and disadvantages, to achieve adequate surface preparation.

The afternoon session was comprised of hands on demonstrations which allowed attendees to use surface preparation equipment first hand. Mock up slabs were constructed and attendees were invited to remove coatings using a vast array of surface preparation equipment.

A special thanks to Walsh Construction for hosting this seminar and providing box lunches to all attendees. Additionally, every attendee received a set of ICRI Concrete Surface Profile Chips.

The seminar was well attended and informative.



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