

April 2016

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI

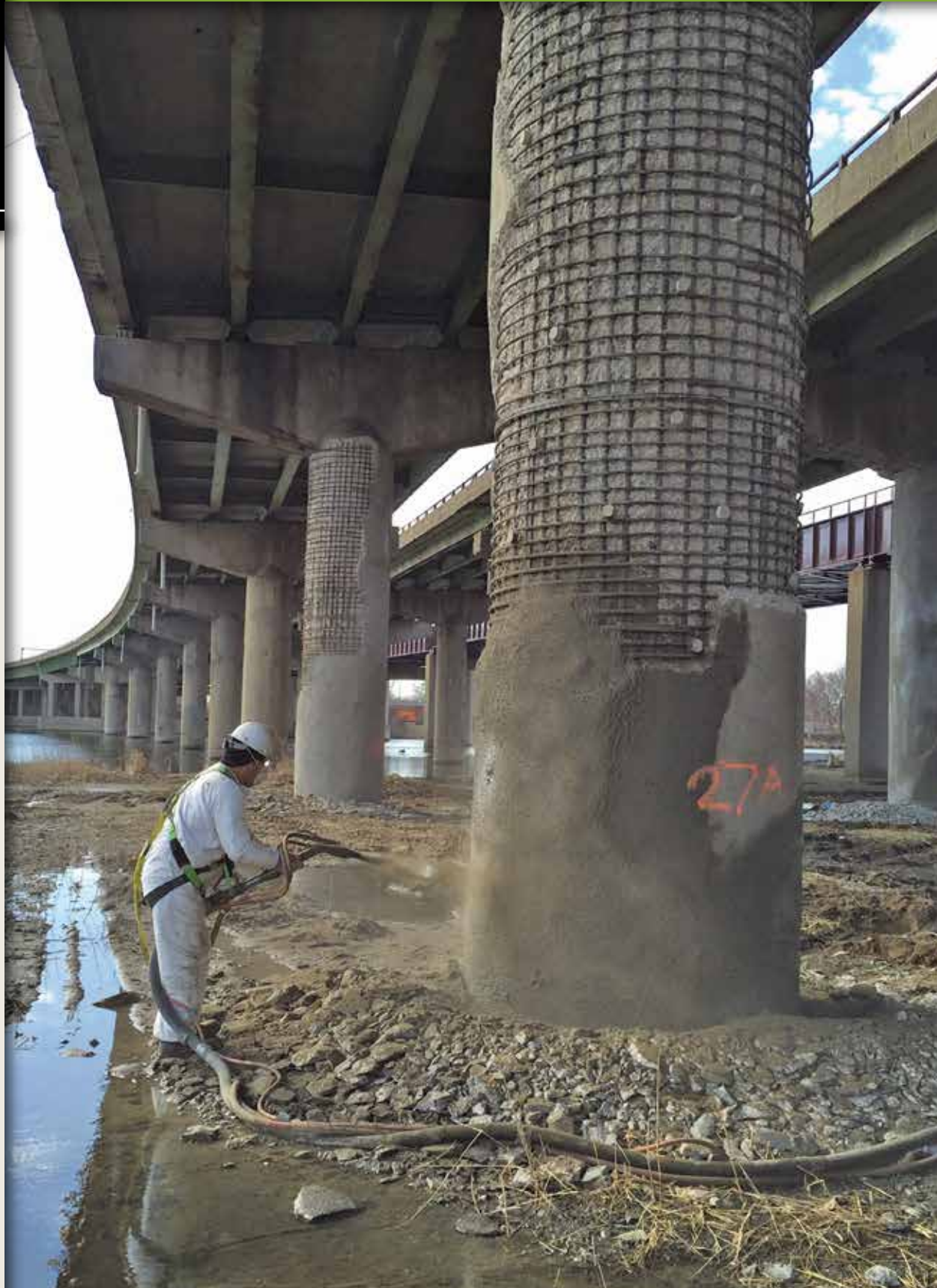


CHICAGO CHAPTER

EDUCATION COMMUNICATION PARTNERSHIP

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CALENDAR OF EVENTS

APRIL

- 14 **Scholarship applications due!**
See icrichicago.org to download application forms.
- 19 **Dinner meeting**
"Moisture Mitigation Practices"
*The Erie Cafe
Chicago, IL*

JUNE

- 2 **Note: Date Change**
2016 ICRI Golf Outing & Scholarship Fundraiser
*White Pines Golf Club
Bensenville, IL*

OCTOBER

- 31 **Award Applications Due.**
See call for entries in this issue or icrichicago.org for more details.

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 we emerge from the madness of March and begin the (hopefully) short thaw from our slow season, I want to again encourage each of you to consider all that your membership in our organization has to offer. Our dinner presentations, educational seminars and networking events are all focused on providing a platform for you to improve your business in the concrete repair industry through education, communication and partnership.

This month's dinner meeting will focus on material selection of moisture mitigation systems and guidelines relevant to specific project requirements. Our 21st Annual Golf Outing and Scholarship Fundraiser will be held on June 2nd, and we fully expect to have a packed house with the continued support from all of our members and sponsor companies committed to a great day of fun and the furthering of an excellent program. The annual seminar, to be held later this year, will focus on opportunities to incorporate shot-crete applications in unique repair projects. And of course, if you are looking for a project partner, we have member companies representing all disciplines from design to construction that are more than excited to provide their experience and problem-solving expertise.

This will no doubt be another challenging year in our industry, and your local partners in ICRI are the most experienced in meeting those challenges that come with working in the Chicago area. Please join your chapter as we continue to evolve with the industry in providing a true resource for your work and for your career.

I hope to see you all at one of our upcoming events. Don't forget to let us know if you would like to get more involved in the chapter's activities or operations.

Respectfully,

Sean Meracle
President - ICRI Chicago Chapter



CHICAGO CHAPTER 2016 OFFICERS & DIRECTORS

The 2016 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Steve Genovese.

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ICRI SPRING CONVENTION HIGHLIGHTS

This year's spring Convention was held in San Juan, Puerto Rico. The convention was well attended by Chicago Chapter members. Being the first convention under new oversight, the new management team answered addressed any questions or concerns of the transition and sat in on many if not all of the committee meetings. Networking is a major perk of the ICRI, but it is even better poolside/Ocean side in 85 degree weather. The spring convention was a resounding success- the overriding theme was "it doesn't get any better than this..."



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PEOPLE ON THE MOVE


GEORGE MULHOLLAND IS PROMOTED TO SENIOR CONSULTING ENGINEER OF RATHS, RATHS & JOHNSON, INC.

CHICAGO, IL (March 11, 2016) Raths, Raths & Johnson, Inc. (RRJ), a national engineering, architecture, and forensics consulting firm, located in Willowbrook, Illinois, is pleased to announce that George R. Mulholland, S.E., P.E. has been promoted to Senior Consulting Engineer. An accomplished structural engineer with 28 years of professional experience, George is an expert forensic engineer specializing in the evaluation, investigation, and repair of distressed facades, buildings, and structures. As a Senior Consulting Engineer, he is responsible for project management and client development across RRJ's range of expert consulting services.

Throughout his 28-year career at RRJ, his experience has concentrated in concrete and building facade investigation, assessment of structures and structural components, repair design, and construction quality assurance. His portfolio has encompassed cast-in-place, precast, and post-tensioned concrete, masonry, steel, and timber structures with a specialization in parking garages.

George has served as Project Manager on numerous investigation projects utilizing the latest techniques and testing approaches, ranging from exterior facade and masonry wall evaluations to concrete deterioration, steel corrosion, and other structural performance-related problems and collapses. His experience extends to structural analysis and structural design peer review, and litigation support and expert witness testimony on related structural performance and facade failures.

From his vast portfolio of repair design projects, George has extensive knowledge of remedial design solutions for rehabilitation, durability, and strengthening of structural framing components and connections; development and implementation of methods to prevent, manage, and control air, water, and vapor migration of building envelopes; and historic facade restoration.

Some of his notable investigations and large-scale repair projects include the University of Notre Dame Football Stadium in South Bend, Indiana; the award-winning terra cotta facade restoration of the historic Two Mellon Bank Center building in Pittsburgh, Pennsylvania; the U.S. Nuclear Regulatory Commission Headquarters Building in Rockville, Maryland; and a one million square foot tornado damaged warehouse collapse in Southaven, Mississippi.

George received his Master of Science in Structural Engineering from the University of Illinois Urbana-Champaign in 1988 and his Bachelor of Science in Civil Engineering from Iowa State University in 1986. A licensed Structural Engineer in Illinois and a Professional Engineer in several states, he currently serves as the Chairman of the American Society of Civil Engineers (ASCE) Standards Committee on Structural Condition Assessment and member of the Precast/Prestressed Concrete Institute (PCI) Building Code Committee. He is an active member of several professional and client organizations including the Structural Engineers Association of Illinois (SEAOI), the American Institute of Steel Construction (AISC), the International Concrete Repair Institute (ICRI), and the Chicago Building Congress (CBC).

About Raths, Raths & Johnson, Inc.

Raths, Raths & Johnson, Inc. is a national engineering, architecture, and forensics consulting firm that provides investigative, design, repair, and testing services for building structures, enclosures, and materials. RRJ's architects, structural engineers, and field/laboratory specialists employ an evaluation methodology that combines a knowledge of building sciences and construction materials with the firm's analytical and testing capabilities to deliver an integrated approach to assess and resolve structural, architectural and building system behavior and performance issues. Serving clients across the nation, RRJ maintains its corporate offices and testing laboratory at 500 Joliet Road, Suite 200 in Willowbrook, Illinois. www.rrj.com.



ICRI SPOTLIGHT R.H. WARD & ASSOCIATES

COMPANY PROFILE:

R.H. Ward & Associates is a family owned and operated concrete restoration company that specializes in wet-method shotcrete for the repair of concrete. Since 1961 Ward has completed over 3,500 concrete restoration projects throughout the United States, with a big presence in Chicago, South Florida, and Baltimore-Washington.

Our main focus is to provide shotcrete repair solutions to concrete restoration contractors, general contractors, engineering firms, and municipalities. Word of mouth recommendations and repeat customers has been key to our 55 years of success in the concrete repair industry.

Representative Projects:

- Frank Lloyd Wright's Unity Temple
- 1973- Repaired and coated the entire 22,000 SF facade with shotcrete.
- 2002 - Repaired the underside of all 6 cantilevered overhangs.
- (2014 - Current) Create an exact match mix-design and repair 7,000 sf of facade.
- (2002) ICRI Historical Restoration of the year

PPL Montana, Billings MT

2014 - Repaired 22,000 S.F. of a concrete pipe-linear for a coal powered reactor pipeline, all work had to be completed in a 12 day outage, and required a pumping distance of 500 L.F. and a smooth trowel finish, all our work was completed on-time.

Old Main Chicago Post Office

2004 - Roughly 200,000 S.F. of overhead shotcrete repairs over live Union Station railroad tracks. Due to limited access a school bus was converted into a mobile working platform, all repairs were safely and successfully completed on time.

(2004) ICRI Transportation Project of the year



Continued on page 9

ICRI SPOTLIGHT R.H. WARD & ASSOCIATES CONT.

St. Charles Air Line Bridge

- 2011/2014 - Repaired 6,000 C.F. of concrete counterweights while maintaining the balance of a 108 year old bascule bridge.
- (2015) ICRI Repair Project of the year
- (2015) ICRI Historical Restoration Project of the year
- (2015) ICRI Chicago Award of Merit

Indiana Toll Road

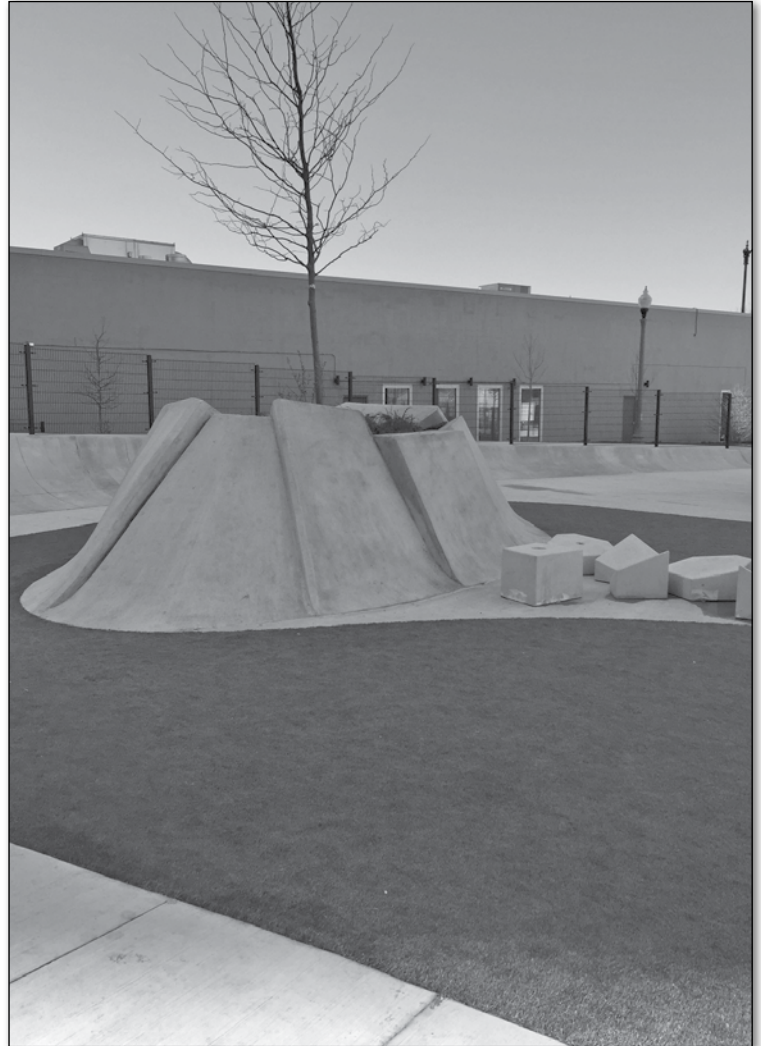
(2013 - Current) Restoration to 20 bridge structures with another 30 forecasted on the I-90 Push Project, shotcrete repairs to the underside of the bridge decks, piers, parapets, and abutments, as well as installation of galvanic anodes, and epoxy crack injection.

Fred Anderson Dog Park

2014 - Created 3 artificial rock formation planters, as well as multiple slopped curbs and walkways with roughly 4,000 C.F. of shotcrete for the Chicago Park District.

Contact Information:

R.H. Ward & Associates, Inc.
3300 Holeman Ave.
S. Chicago Heights, IL 60411
708-756-0767



SCHOLARSHIPS: APPLICATION & DUE DATE

In an effort to promote the development of future concrete industry professionals, the Chicago Chapter of ICRI has established the ICRI Chicago Chapter Scholarship Award. The annual scholarship award is intended to provide financial assistance for undergraduate-level students pursuing course work in fields directly related to concrete construction or repair. Funding for the Scholarship Award is provided through the Chicago Chapter of ICRI. Contact Scholarship Committee Chairman Steve Genovese for more information.

**SCHOLARSHIP APPLICATIONS DUE FRIDAY,
APRIL 14th 5:00 P.M.**



ICRI CHICAGO CHAPTER APRIL DINNER MEETING

Date: Tuesday, April 19, 2016

Topic: Moisture Mitigation

**Presenter: Ned Lyon, Staff Consultant
Simpson Gumpertz Heger Inc.'s Boston Office**

5:00 PM - 8:00 PM • The Erie Cafe, Chicago, IL

Edward "Ned" Lyon, Staff Consultant at Simpson Gumpertz Heger Inc.'s Boston Office, will present "A Little More Background About Moisture in Concrete As It Relates to ASTM F3010." The presentation will discuss Mr. Lyon's experiences in this challenging area of work and applications relevant to the concrete repair industry.

Mr. Lyon received his B.S. in Mechanical Engineering and his M.S. in Design Engineering from Tufts University. Ned has over 25 years of experience in design and construction working out of the Boston Office of Simpson Gumpertz Heger Inc. As a Staff Consultant, Mr. Lyon investigates, evaluates, and designs repairs to natatoriums, residential buildings, and commercial buildings. He specializes in analyzing and solving problems involving condensation, moisture migration, air infiltration, and water leakage. Some of his more notable project experience includes investigating and developing remedial designs of condensation and HVAC problems at the Canham Natatorium, University of Michigan in Ann Arbor, MI, renovating the Mead Museum to allow for high humidity at Amherst College in Amherst, MA, and analyzing walls and windows for heat flow and condensation at the Sterling Memorial Library, Yale University in New Haven, CT. Current projects include the renovation and expansion of the Hood Museum at Dartmouth College in Hanover, NH. Mr. Lyon is a member of ASHRAE and also serves on ASTM Committee F06 which is responsible for standards on flooring and concrete moisture evaluation including F3010-13, Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings.

Please join us at our "new" event space, The Erie Cafe, for an evening of networking and discussion.

Cash Bar: 5:00 - 6:00 PM • Dinner: 6:00 PM • Presentation: 6:30 PM

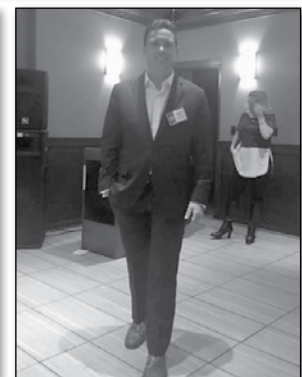
Price: \$55.00 per person

Please register prior to Friday April 15th to ensure meal choice at www.icrichicago.org.

ICRI CHICAGO CHAPTER FEBRUARY DINNER MEETING HIGHLIGHTS



On February 16, 2016 the ICRI Chicago Chapter February held the 2016 Dinner Meeting which highlighted 2015 Chicago Chapter Project Awards Presentations. Over 40 people attended and listened to our local award winners explore some of the most interesting and unique projects of 2015.





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Call for Entries

2016 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, 2016. 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 October 31, 2016 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 2017 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
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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

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