

April 2015

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



CHICAGO CHAPTER

EDUCATION COMMUNICATION PARTNERSHIP

THIS ISSUE:

- **DINNER MEETING ANNOUNCEMENT:**
Design & Utilization of Expansion Control Devices in Parking Structures and Facilities
- **ICRI SPOTLIGHT:**
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ICRI Spotlight
February Dinner Meeting
Spring Convention



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CALENDAR OF EVENTS

APRIL

- 10 **2015 ICRI Chicago Chapter Scholarship Applications DUE**
- 21 **Chicago Chapter Dinner Meeting "Design and Utilization of Expansion Control Devices In Parking Structures and Facilities"**
*The Parthenon
Chicago, IL*

JUNE

- 4 **20th Annual Chicago Chapter Golf Outing**
*White Pines Golf Course
Bensenville, IL*

SEPTEMBER

- 15 **Chicago Chapter Dinner Meeting "Joint Meeting / Precast Concrete Institute (PCI)"**
*Westwood Ale House
Schaumburg, 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



I recently enjoyed the great experience of being our Chapter's Delegate at the ICRI National Spring Convention in New York City. I am excited to announce that our chapter was nationally recognized and awarded an "Outstanding Chapter" patch for 2014. Congratulations to our chapter members, board, and Past-President, Alex Szataneck, for their hard work. Throughout my time at the convention I was able to meet a number of great people and bring back a lot of new ideas for our chapter. I was also pleased to run into many familiar faces from our local chapter during the social events, luncheons, and technical sessions.

If you have not done so already, please mark your calendars for Thursday June 4th which will be our Annual Scholarship Fundraiser and Golf Outing at White Pines Golf Club in Bensenville. In the past this event has always been very well attended and I expect this year to be no different. So let us begin assembling our foursomes, taking the family to miniature golf, and making those secret trips to the driving range. I look forward to seeing everyone either on the course or during lunch!

As always, I encourage our current and prospective members to visit our local chapter's website www.icrichicago.org for chapter information such a list of our chapter activities, membership information, and our calendar of events.

If you have any comments, suggestions, or would like to get more involved with our chapter, please feel free to email or talk to me at our events. I look forward to seeing all of you throughout the year.

Sincerely,

Steve Genovese
President - ICRI Chicago Chapter



CHICAGO CHAPTER 2015 OFFICERS & DIRECTORS

The 2015 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Steve Genovese.

President Steve Genovese
Harry S. Peterson Company
773-504-4316
steveg@harryspeterson.com

Vice President Sean Meracle
The Sherwin Williams Company
312-656-0622
sean.m.meracle@sherwin.com

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mcarlson@ictconst.com

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Simpson Gumpertz & Heger
312-754-7506
alwoods@sg.com

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Hard Surface Solutions, Inc.
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jfadllin@hsshardsurfacesolutions.com

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FEBRUARY DINNER MEETING HIGHLIGHTS

The Chicago Chapter of ICRI hosted their February Dinner Meeting on Tuesday, February 17, 2015 at McCormick & Schmick's in Rosemont, IL.

This presentation featured Josh M. Leavitt co-chair of the Construction Law Group at Much Shelist, a Chicago –based firm. Mr. Leavitt outlined his thoughts on Speaking of Protection from Potential Project Litigation, Risks for Design Professionals/Contractors, Contract Terms Unique to Renovation & Repair and Best Practices for Documentation & Record Keeping.

Thank you to all the attendees who joined in this dinner meeting.



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PEOPLE ON THE MOVE

Kevin Conroy, S.E., P.E.
Senior Staff II – Structures
Simpson Gumpertz & Heger
Location: Chicago

Structural engineer with over thirteen years of experience specializing in field investigations, evaluations, and the development and implementation of repair designs for deteriorated structures and building envelope components. Projects have involved a range of material types, including cast-in-place, precast, and post-tensioned concrete, granite, marble, steel, and timber. Committee member for ICRI 150 and secretary of ACI 562.



ICRI Chicago Board Members Sean Meracle and Jim Fadellin manning the ICRI booth at the The Glenrock Company's Annual 'State of the Art' Show

ICRI SPOTLIGHT SIMPSON GUMPERTZ & HEGER (SGH)

Simpson Gumpertz & Heger (SGH) is a national engineering firm that designs, investigates, and rehabilitates structures and building enclosures. Our award-winning work encompasses building, nuclear, transportation, water/wastewater, and science/defense projects throughout the United States and in more than thirty other countries.

OUR SERVICES

INVESTIGATE

SGH works closely with owners, contractors, attorneys, and insurance companies. Throughout the investigation process, SGH:

- Identifies the causes of structural and building enclosure performance problems.
- Often leads the investigation effort, working respectfully with the many parties involved in construction projects.
- Follows a rigorous, fact-finding approach and develops findings with credibility that is grounded in our strong design practice.
- Draws upon our nationally-recognized experts in diverse specialties.
- Communicates conclusions clearly and objectively.

REHABILITATE

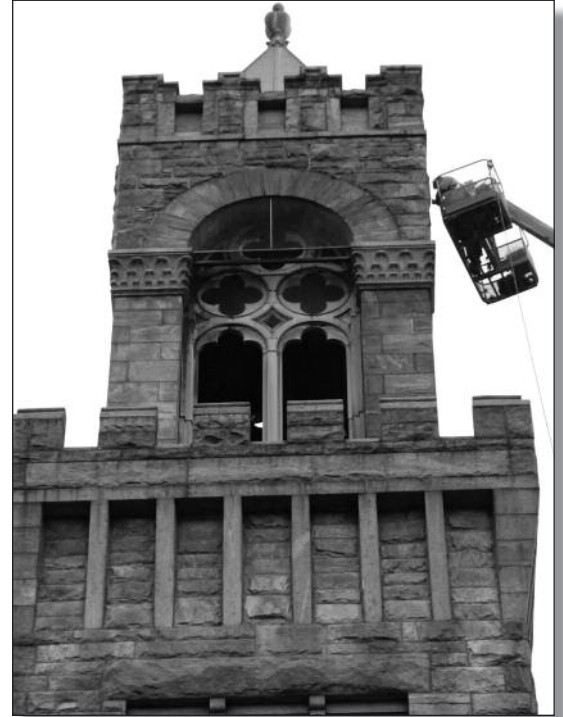
SGH confers with owners, contractors, and architects to understand goals and develop appropriate solutions. For rehabilitation projects, SGH:

- Draws upon our combined investigation and design experience to improve the performance and reliability of existing structures and building enclosures.
- Successful repairs to historic buildings require an understanding of materials or recognizing symptoms of problems. Our restoration programs maximize the useful life of a building and preserves its historic integrity.
- Provides clients with comprehensive options that respect the project's significance and allow the owner to make informed decisions.
- Addresses ease of construction in our designs and respond quickly to additional needs during implementation.

DESIGN

SGH collaborates with architects, owners, and contractors to find creative solutions for demanding projects. As an integral part of the design team, SGH:

- Explores, develops, and presents multiple options and help to select the best solution.
- Draws on our knowledge, gained through decades of designing and investigating structures and building enclosures, to appropriately balance performance, reliability, and cost.



Condition assessment and nondestructive testing of a stone facade



Structural evaluation and repair (Photo courtesy of Acheson Doyle Partners)

ICRI SPOTLIGHT SIMPSON GUMPERTZ & HEGER (SGH) CONT.

- Rolls up our sleeves to anticipate issues, solve problems, and help ensure the design intent is achieved in the completed project.

SGH'S CONCRETE TECHNOLOGY, PETROGRAPHY, AND LABORATORY WORK

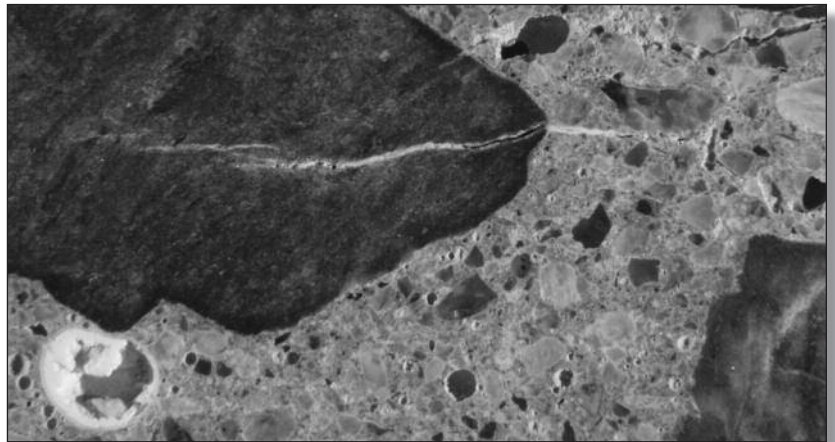
SGH's in-house petrographic laboratory and physical testing facilities allows our engineers to work side-by-side with our petrographers, chemists, and technicians throughout the testing processes to ensure that testing methods address project requirements. Our technology is used for concrete, as well as other materials such as masonry, terra cotta, stone, coatings, waterproofing, metal, wood, and glass.

Specifically for concrete, SGH brings an understanding of cement chemistry, materials science, geology, construction methods, deterioration diagnosis, repair procedures, and structural design to projects involving the use of concrete. Our resources include the following:

- Structural engineers with knowledge of the chemistry of materials, engineering properties of concrete, deterioration mechanisms, and corrosion
- Material scientists, petrographers, engineers, and chemists who are active in their professional fields
- Nondestructive testing of concrete structures to evaluate condition and causes of deterioration
- State-of-the-art petrography laboratory with extensive testing capabilities



Structural design and formwork engineering (Photo by Chuck Choi)



Microscopic concrete petrographic examination

How can SGH help YOU on your next project?

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Date: Tuesday, April 21st 2015

Topic: Design & Utilization of Expansion Control Devices in Parking Structures & Facilities

FEATURED SPEAKER: Steve Pabst

Session Information: The size and scope of parking garages and associated buildings or facilities, coupled with increased performance and life expectancy demands has resulted in fast evolving design and material considerations for Expansion Control Devices.

A combination of higher vehicle volume and subsequent greater impact loading may result in a crying need for engineered, higher performance product selection on parking garages. Building requirements have evolved as well, with combined functional, life safety and aesthetic demands placed upon the manufacturer.

This presentation will address the historical development of these products, current and varied solutions offered in the marketplace, and challenges in balancing long term performance benefits, construction repair requirements and the proper selection of materials to satisfy the needs of owner and contractor while balancing the unique movement and engineering demands of our parking facilities, associated plaza areas, public facilities and commercial buildings.

Presenter Information: Steve Pabst is the Director of Sales for Watson Bowman Acme Corp, Division of BASF. A multi-disciplined designer and manufacturer of Expansion Control Devices utilized in bridge, parking garage and building construction, he has been with Watson Bowman Acme for 36 years, holding various Sales and Marketing Management positions in the organization.

Steve is a patent holder, co- patent holder, published author and presenter to engineering and construction trade organizations, on the design and utilization of Expansion Control Devices in bridges, buildings and parking facilities. Among his industry trade organization activities, he is on the Board of The American Segmental Bridge Institute.

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Cocktails at 5:00 pm, Dinner at 5:30 pm, Presentation at 6:00 pm
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Seating is limited!! Please respond no later than **12 p.m. on April 17th** to assure a dinner.

Dinner Choices: NY Strip Steak (S) Greek Chicken (C) Vegetarian Plate (V)

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2015 NATIONAL SPRING CONVENTION – NEW YORK CITY, NEW YORK HIGHLIGHTS

Over 360 ICRI members and contributors attended the ICRI National Spring Convention in New York City March 25–27. The turnout was one of the largest attended conventions in ICRI history. The convention was held just steps off the famous Times Square at the Millennium Broadway Hotel.

Our Chapter President Steve Genovese (Harry S. Peterson Company) was proud to represent the Chicago Chapter by being our Chapter's Delegate. During the first day luncheon, our chapter was honored with the 2014 "Outstanding Chapter" patch which is given out to only the top performing chapters nationwide.



The technical sessions were based on the convention's theme, High-Rise Repairs. Some of the topics discussed included; High-Rise Roofing and Waterproofing, Secrets to a Successful High-Rise Repair Project, Strengthening High-Rise Structures Using FRP Composite Materials, and Structural Repairs to Conventionally Reinforced and Post-Tensioned Members. As expected, these sessions were all very well attended and extremely educational.

One of the social events for the convention was a New York City sightseeing tour on a double-decker bus. The tour took the group around to the most famous neighborhoods, attractions, and places of interest; Times Square, Madison Square Garden, Empire State Building, Chinatown, Little Italy, Wall Street, World Trade Center, Rockefeller Center, Carnegie Hall, and much more. The convention was capped off with a well attended event held at the famous Loeb Boathouse in the well known Central Park. During this event attendees were able to continue to grow and make new relationships with fellow chapter members while listening to an entertaining band and sipping on your favorite drink of choice.

The ICRI Fall Convention will be held October 14-16 in Fort Worth, Texas with the convention theme being "Modern Trends in the Repair Industry". Book your trip early and experience one of the great benefits of ICRI.





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CHICAGO CHAPTER CALL FOR ENTRIES OUTSTANDING CONCRETE REPAIR PROJECTS

Call for Entries

2015 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, 2015. 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, 2015 to: **ICRI Chicago Chapter Attn: Tom Steele - P.O Box 578625 - Chicago, IL 60657.**



Awards. Winning Projects will be announced in the November issue of the Concrete Reinforcer and presented at the ICRI Chicago Chapter 2016 February Dinner Meeting & Educational Seminar.

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

International Concrete Repair Institute Chicago Chapter - PO Box 578625 - Chicago, Illinois 60657



Rich Campbell
campbell@advpolytech.com
 (773) 791-3305

Kevin Koske
koske@advpolytech.com
 (630) 631-1556



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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
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 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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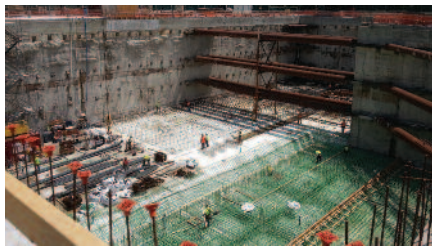
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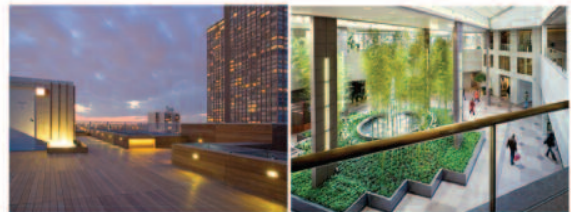
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 FAX: 630.333.1203

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 tlaird@lscontracting.com
 P: (773) 279-1122
 F: (773) 279-1133
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