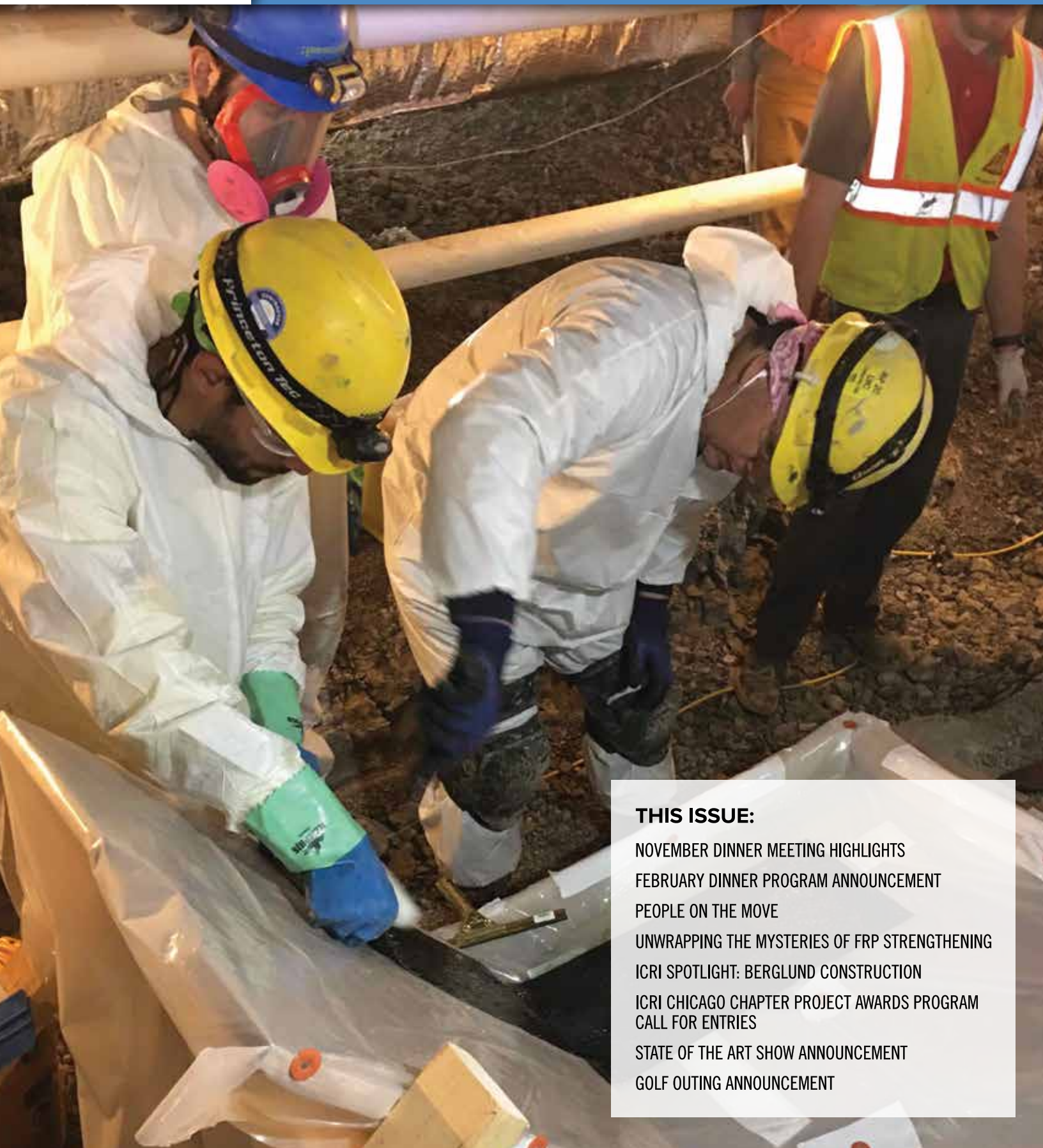


CONCRETE REINFORCER

A Publication of the Chicago Chapter ICRI



THIS ISSUE:

NOVEMBER DINNER MEETING HIGHLIGHTS

FEBRUARY DINNER PROGRAM ANNOUNCEMENT

PEOPLE ON THE MOVE

UNWRAPPING THE MYSTERIES OF FRP STRENGTHENING

ICRI SPOTLIGHT: BERGLUND CONSTRUCTION

ICRI CHICAGO CHAPTER PROJECT AWARDS PROGRAM
CALL FOR ENTRIES

STATE OF THE ART SHOW ANNOUNCEMENT

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CALENDAR OF EVENTS

| | |
|------------------------------|---|
| FEB 16 | Virtual Dinner Program (FREE) Topic: Fluid Applied Air & Water Resistive Barriers Speaker: Garrett Hovest - Master Builders Solutions <i>Event Starts 3:00 PM</i> |
| APRIL 21-22 | ICRI National Spring Convention "New Trends & Technology In Concrete Repair" |
| JUNE 3 | Leland "Lee" Sizemore Memorial Golf Outing <i>White Pines Golf Course</i> |
| 7-10 | World of Concrete <i>Las Vegas Convention Center</i> <i>Las Vegas, NV</i> |

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



2020 is finally in the rearview mirror, but it will be a year we will never forget. Although the construction industry was not immune to the effects of COVID, the industry did a great job getting through with determination and creativity. 2021 is unfortunately starting the same way 2020 ended with COVID still creating special circumstances for each of us, but I feel we have learned valuable lessons which will help us get through 2021 successfully.

Since becoming a member of the Chicago Chapter, I have been impressed with the cooperation of all involved. Designers, material suppliers, and contractors working together to educate each other on the newest information available. This exchange of information is

what will give each of us the opportunity to become leaders in the repair industry now and into the future.

I am honored to have the opportunity to be the 2021 ICRI-Chicago Chapter President and would like to thank our past president Mike Wiscons, for his leadership and exceptional organization to help guide the chapter through 2020. Our 2021 Board of Directors is a diverse and experienced group of individuals and I look forward to working with each of them to make 2021 a great year.

With a positive attitude that we will be able to meet face to face later this year, our committees are currently in the process of planning most of our normal events for the remainder of the year. We will have four educational meetings (virtually until we are able to meet face to face), our socially distanced golf outing at White Pines, our technical seminar in the fall (in person/virtual), and a holiday party at the end of the year. We also intend to continue having joint activities with other organizations when these opportunities arise. Please check out our calendar of events and our website www.icrichicago.org for more information.

The ICRI Chicago Chapter Board of Directors would like to thank our current members and welcome new members. We have elected to invest in our members by providing them with a local chapter dues rebate for 2021. Since January 1, 2021, once you have signed up for ICRI national and local chapter dues, the Chicago Chapter will provide you a rebate via check. We hope this token of appreciation will help each of you in 2021. Please reach out to others who are not currently members and ask them to get involved in ICRI.

Keep a look out for the improved website coming later this spring. It should provide a more user-friendly platform to gather information about upcoming activities, sponsors, individual members, and repair industry information.

I wish you all have a safe and healthy 2021 and look forward to seeing you in person again soon.

Sincerely,

George Mulholland

ICRI Chicago Chapter President



CHICAGO CHAPTER 2021 OFFICERS & DIRECTORS

The 2021 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, George Mulholland.

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**2021 Leland “Lee” Sizemore
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Thursday, June 3rd

**White Pines Golf Course
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8 am shotgun start

Details to follow.

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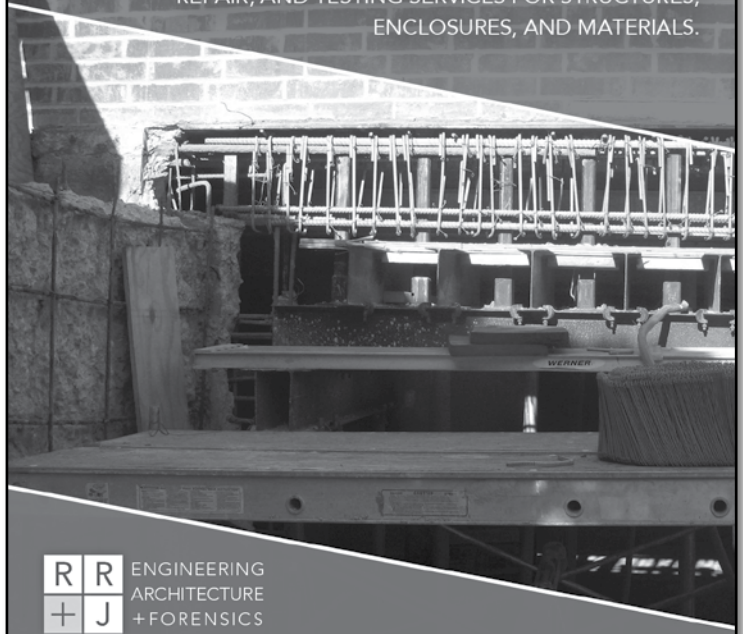
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Call for Entries

2021 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, 2021. 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 31st, 2021 to:

AWARDS.ICRI.CHICAGO@GMAIL.COM

Awards. Winning Projects will be announced in the February issue of the Concrete Reinforcer and presented at the ICRI Chicago Chapter 2022 February Dinner Meeting
****PLUS****

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ICRI SPOTLIGHT: BERGLUND CONSTRUCTION

**Locke Elementary School**

2828 N Oak Park Ave, Chicago, IL 60634



Located on Chicago's northwest side, Locke Elementary School was constructed in the 1920s using the "Dever" prototypical elementary school design, named after the mayor of the time, William Emmet Dever. Like other schools built in this prototype, Locke School suffered systemic concrete failures shortly after construction. In the 1930s, the city installed structural steel supports on the roof and in the attic to stabilize the building.

In recent years, the City has undertaken repairs at the Dever schools to strengthen the concrete beams, eliminating the need for the "Dever beam" steel members. In 2019, Chicago Public Schools hired Berglund Construction to undertake these repairs at Locke School as construction manager at-risk. Rada Architects served as the project architect, with Wiss, Janney, Elstner Associates, Inc., as the structural engineer.

All repairs were performed on expedited schedule, compressing an original schedule that spanned two summers into one season.

Fiber-Reinforced Polymer

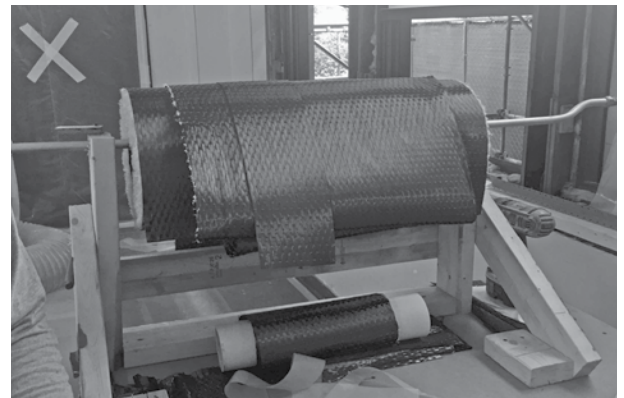
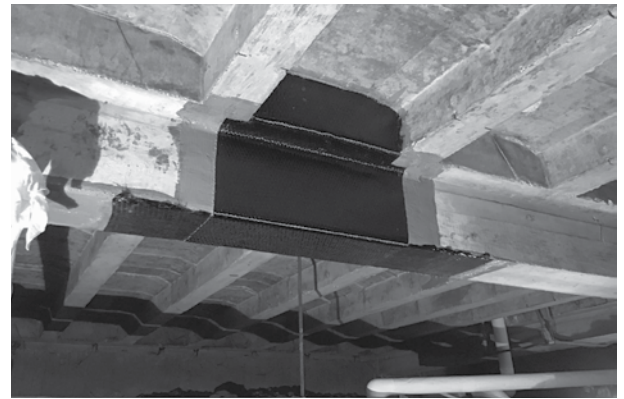
To strengthen the concrete beams and joists in place, Berglund tradespeople installed a Fiber-Reinforced Polymer (FRP) system. The FRP system eliminated the need for the steel Dever beams, so once it was installed those beams could be removed from the building.

Our self-perform concrete repair team worked closely with Sika to develop an approved process for the installation of its FRP system. Our team set up an innovative prep station for preparing the Sika FRP for install. This station was in a temperature-controlled, dust-free zone to ensure that the liquid-applied resin was applied to the fabric in the right conditions.

Our crew members started the repair process by creating a template at the location where the FRP system was to be applied, based on the size of the required repair. This template was taken into the FRP station, where it was used to cut the appropriate amount of fabric for the repair. Creating custom templates eliminated any waste of material.

We then saturated the cut of fabric in resin and used a squeegee to remove the excess liquid. Once the fabric was ready, we rolled the prepped piece onto a PVC pipe for easy transportation. This eliminated carrying a large, wet flapping piece of fabric through the building. Once at the location, we unrolled the fabric and installed it appropriately.

This innovative FRP prep process eliminated quality control issues and allowed for an efficient installation. No installed FRP had to be reworked throughout the entire project – a rare achievement for contractors installing this product.



ICRI SPOTLIGHT: BERGLUND CONSTRUCTION



Shear Collars

As another means of removing load from the steel Deever beams, Berglund's concrete team installed "shear collars" at four columns throughout the building. These columns supported the four main girders at both ends of the building.

The existing column was an approximate 17" square. Below where the girders intersected the columns, this shear collar was installed. It was a round 36" concrete collar, 22" high, with two layers of circular rebar.

To install the shear collar system, we constructed a deck for temporary support. After installing the two layers of rebar, the concrete was poured in two phases. First, we poured the round shear collar, which supported two of the four girders surrounding the column. Then, we poured stub-columns where required to make up the height difference from the underside of each girder to be supported.

Our concrete crews constructed the intricate framework for the shear collars with precise attention to detail, setting up a successful pour at each location.



Concrete Repair at Spandrel Beams

Berglund also undertook concrete repairs on the spandrel beams at the roof level and first and second floors. The most intensive repairs were required at the roof level on the west side of the building.

At this west roof level location, we removed the masonry to fully expose the underlying reinforced concrete spandrel beams. These reinforced concrete beams span the masonry piers to support the mansard roof framing over the second-floor classrooms.

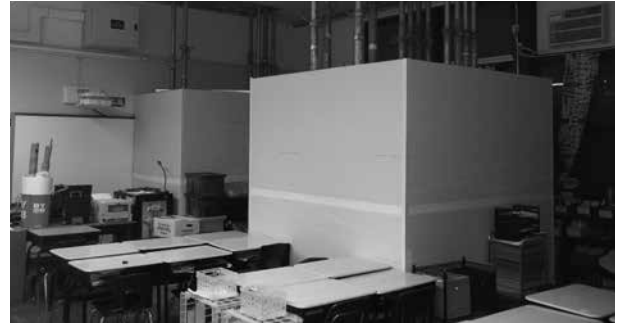
ICRI SPOTLIGHT: BERGLUND CONSTRUCTION

WJE engineers inspected the exposed spandrel beams and observed significant concrete deterioration. The reinforcing steel was corroded, which severely damaged the structural integrity of the concrete. Due to the condition of the beam, WJE recommended that adjacent classrooms be vacated throughout the entirety of the work.

Then, Berglund's crew shored all 250 LF of the spandrel beam, with shoring carrying the load from the roof down through the second, first and basement levels of the building. We established a demolition sequence that started with crews at either end of the spandrel beam, working their way toward the middle to maximize efficiency.

The crews replaced a bay at a time, performing demo and repouring concrete before moving to the next bay. Berglund's crane and operator were used throughout the process.

All this work was done at night to avoid disrupting the ongoing operations at the school. The intensive shoring required working throughout a cramped basement, with close adherence to safety protocols by the crews working in the challenging environment.



Shotcrete

In areas of the school where concrete repairs could not be cast-in-place, Berglund Construction and Ward & Associates performed a shotcrete application at all the overhead repairs. This process consisted of spraying concrete through a hose, which extended up to 150 LF, and pneumatically projecting it to the repair area. This method required little formwork, which made it much faster than the traditional cast-in-place repair. The shotcrete had to be molded to match the existing profile of the repair area soon after it was applied.

In lieu of test cylinders, multiple 18" x 18" x 3-1/2" test panels were created and submitted to a testing agency, which all resulted with comprehensive strength tests well above the required amount.

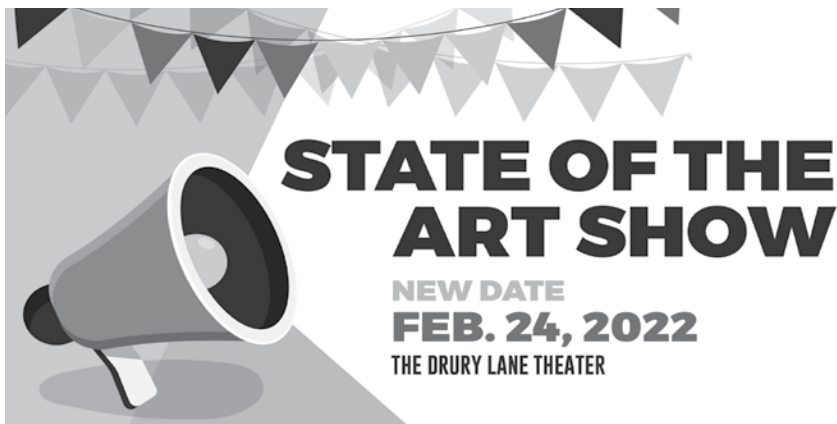
ICRI SPOTLIGHT: BERGLUND CONSTRUCTION

Epoxy Injection

Another method of concrete repair used at Locke Elementary School was epoxy injection. Berglund self-performed over 1,100 LF of crack injection at 180 locations. Our crews were challenged to make several repairs in very tight areas, which made it difficult to perform the necessary preparations of the substrate and place the pressure injection equipment close enough to inject the cracked concrete. The structural engineer, WJE, inspected and approved all locations in each phase – including surface preparation, injection and sealing - of the repair.



Contact Information:
 Berglund Construction
 8410 S. South Chicago Ave
 Chicago, IL 60617
 (773)374-1000



Due to COVID 19 and the state of Illinois restrictions on large gatherings, Glenrock Company's State of the Art Show will be postponed to February 24, 2022. Stay tuned!



UNWRAPPING THE MYSTERIES OF FRP STRENGTHENING

On November 12, 2020, Diego Romero (Walker Consultants) and Scott DiSteffano (Sika) hosted ICRI Chicago's 2020 technical webinar titled "External Strengthening of Concrete using FRP – Applications and Installation Best Practices." The webinar discussed the different kinds of FRP strengthening materials available in the market, design tips, when and where FRP can be used, and installation best practices. Originally planned as a live demo event, the presentation adapted to the changes from the pandemic and presented pre-recorded videos showcasing FRP wet, dry, and precured installations on columns and beams. The presentation was well received and attended by over thirty members and non-members in our industry. If you have any ideas for our 2021 Technical Seminar, please do not hesitate to reach out to the ICRI Chicago board.



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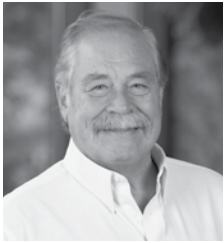


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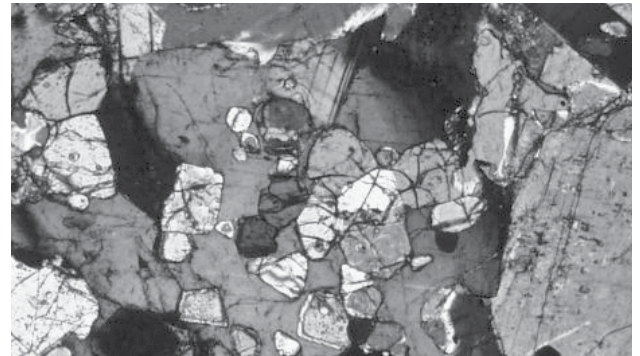
In January, Larry Susmarski retired from Walker Consultants after working with the firm for 48 years. Larry started at Walker Consultants performing civil and drainage design and shortly thereafter evolved to become one of the most recognized parking garage restoration consultants in our industry. Known by

many for his big smile and signature mustache, Larry has worked on just about every parking garage there is in the Chicago-land area and well loved by property managers. We wish Larry a happy retirement and look forward to the party once everything goes back to normal.

After Nineteen years in equipment rental and material supplies, past ICRI Chapter President Jeff Zeitler has moved into a new endeavor in business development for Dukane Precast. His new role developing and implementing new initiatives for a premier Precast producer offers new challenges and responsibilities to further his career aspirations. Please take a moment to congratulate Jeff in his new role.

NOVEMBER 2020 DINNER MEETING/WEBINAR HIGHLIGHTS

In November, ICRI Chicago hosted an engaging webinar titled "Forensic Petrography and an Ancient Mystery". The webinar was presented by Scott Wolter, President of American Petrographic Services and host of Travel Channel's "America Unearthed". Mr. Wolter discussed the basics of petrography and its use in failure investigation and concrete repair design before delving into a thrilling review of his involvement in solving a cold case murder in Las Vegas using petrographic analysis. The presentation was informative and captivating, covering additional topics such as the examination of historical artifacts that appear to contradict commonly accepted explanations of historical events.



FEBRUARY DINNER MEETING/WEBINAR

Air and Water-Resistive Barriers

February 16th, 2021
3:00 pm

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Introduces the role of air barriers in building design and envelope performance. Participants will gain knowledge of air/water-resistive barrier material and assembly performance, understand how to treat rough openings using fluid-applied systems, and be able to properly specify performance based fluid-applied air barrier materials.

Speaker: Garrett Hovest, CSI

Market Development Manager, Building Solutions Team
Construction Chemicals North America, N-EBN/S

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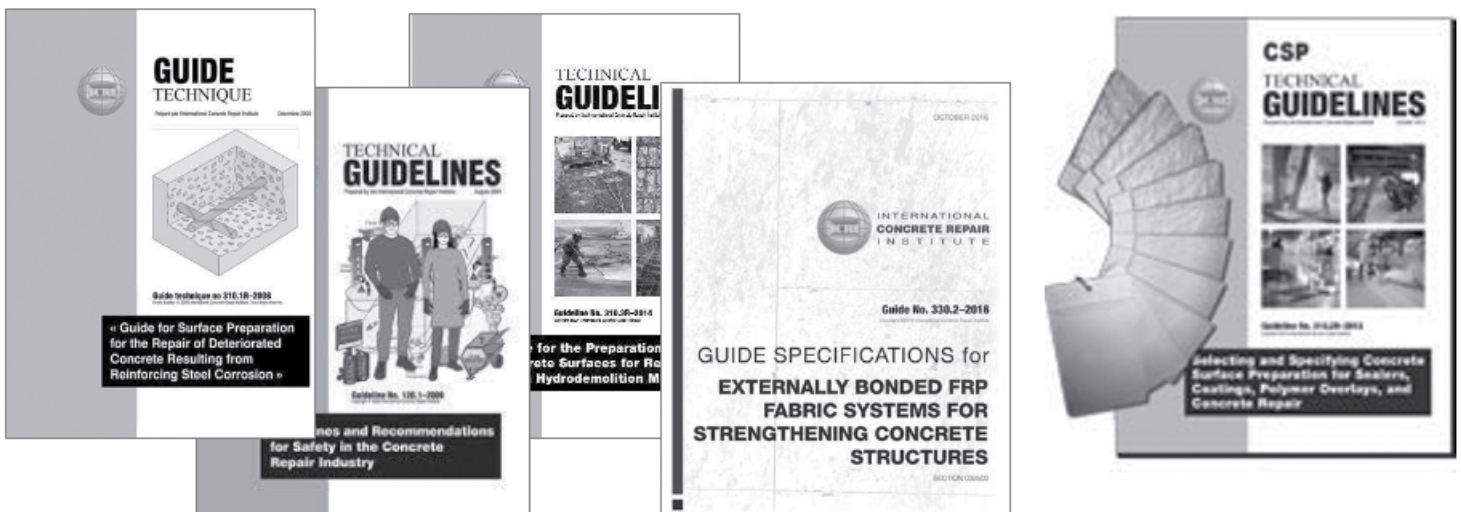


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