

## **THIS ISSUE:**

**PROJECT OF THE YEAR: "ETERNAL INDIAN"  
CHIEF BLACK HAWK STATUE**

**AWARD OF MERIT: DEPAUL CENTER**

**2021 LELAND "LEE" SIZEMORE SCHOLARSHIP AWARD**

**COMPANIES ON THE MOVE**

**SEPTEMBER 2021 DINNER MEETING ANNOUNCEMENT**

**APRIL DINNER MEETING HIGHLIGHTS**

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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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**Stephen Schmitt**  
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**Sarah Horton**  
Berglund Construction  
(773) 449-2165 | shorton@berglundco.com

**Diego Romero**  
Walker Consultants  
(312) 292-0792 | dromero@walkerconsultants.com

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## LETTER FROM OUR PRESIDENT



Summer is coming to an end, but the repair construction season is still going strong. Even though the construction industry is dealing with variable material supplies due to the pandemic, all companies appear to be powering through. This summer gave all of us a limited reprieve from COVID restrictions, but it appears COVID is rearing its ugly head once again. We recently have been mandated by our governor to wear masks inside, but, as of the date of this letter, we thankfully have not been limited on the number of people gathering. This means that our ICRI Lee Sizemore Memorial Scholarship Golf Outing will go ahead as planned.

The 2020 ICRI Chicago Chapter Project of the Year and Award for Merit will be named at this year's golf outing. The two deserving finalists are the restoration of the DePaul University DePaul Center Scroll Brackets and Facade and the "Eternal Indian" Chief Black Hawk Statue. Please join us in celebrating these projects at our September 21, 2021 in-person dinner meeting at Westwood Tavern as we plan to have the particulars for both projects presented by the restoration contractors and design professionals. We hope to see all of you there.

The ICRI National Convention, Evaluation and Forensics – "Despair to Repair," is scheduled to be in-person in Minneapolis, MN October 11 through 13, 2021. Participants can attend technical sessions and committee meetings, have the opportunity to network with fellow ICRI members and take part in social events.

The ICRI Chicago Chapter will host the 2021 Technical Seminar on November 4 at CTL Group in Skokie, Illinois. The seminar theme will be Concrete Waterproofing and will provide 6 continuing education units (CEU) to those who attend. Please block out November 4 for this exciting and informative event.

I hope that each of you remain healthy and your business continues to prosper. We all look forward to seeing each of you at the golf outing and dinner meeting this coming September. It will be great to reacquaint ourselves in person (not via zoom or teams) once again.

Sincerely,

*George Mulholland*  
ICRI Chicago Chapter President





For more information, visit our  
Member Directory at:  
[www.icrichicago.org/directory.php](http://www.icrichicago.org/directory.php)

## CALENDAR OF EVENTS

- SEPT** Leland "Lee" Sizemore Memorial Golf Outing  
2 *White Pines Golf Course  
Bensenville, IL*
- 21 **ICRI Chicago Chapter Dinner Meeting  
Project of the Year and Award of Merit Presentations**  
*Westwood Tavern, Schaumburg, IL*
- OCT** **ICRI National Fall Convention**  
11-13 **Evaluation and Forensics "Despair to Repair"**  
*Minneapolis, MN*
- NOV** **ICRI Chicago Chapter Technical Seminar -  
Waterproofing**  
4 *CTL- Skokie, IL*
- 16 **ICRI Chicago Chapter Dinner Meeting**  
*Erie Cafe*
- DEC** **Holiday Party**  
9

## COMPANIES ON THE MOVE

March 31, 2021

Glenrock Company, headquartered in Elmhurst, IL is pleased to announce the asset acquisition of PFI-Inc of Cincinnati, Ohio, a specialty distributor of high-performance sealants, adhesives and accessories.

PFI-Inc., "Plastics for Industry", was established in 1965 as a wholesale distributor of resinous repair materials for concrete and masonry serving the area's industrial market. In 1969, PFI became an authorized distributor for GE Silicone Construction Sealants, followed in 1970 by Sonneborn Building Products and in 1978, Tremco Sealants. Today, PFI has an established reputation as the premier distributor of specialty sealants and accessories inclusive of other notable brands like Sika, Pecora and 3M Fire Protection products and systems.

We welcome both Dave McGaughey and Bruce Ragelis, principals of PFI, and their staff into the Glenrock organization. "I am pleased to have Dave, Bruce and Tammy join our family... their knowledge and decades of experience, combined with the synergy of our companies, will certainly provide an exceptional customer experience throughout the greater Cincinnati and southern Ohio marketplace" said Joseph Amrein, President of Glenrock Company. "I am confident that we will exceed the trust and expectation that Dave and Bruce have put in Glenrock to carry on their legacy of over fifty years-" commented Amrein.

Glenrock Company, a premier distributor of commercial sealants, waterproofing, air barriers, and concrete & masonry restoration products, will be celebrating 60 years in business this December. Corporately located in Chicago, IL the newest Cincinnati, OH branch will complement existing branch operations in Milwaukee, WI and Indianapolis, IN.

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## 2021 LELAND “LEE” SIZEMORE SCHOLARSHIP AWARD



ICRI Chicago congratulates Katie Augustine on being selected as the recipient of the 2021 Lee Sizemore Scholarship Award. Katie received a \$5,000 scholarship award from ICRI Chicago.

This year we had many qualified applicants for the scholarship and while the decision was a difficult one, Katie’s interest and experience in the repair industry made her stand out. Katie is a 5th year student currently pursuing a master’s degree in architectural engineering at the Milwaukee School of Engineering. Academically, Katie has been part of the Dean’s List and has received high honors; she is also a scholar athlete (volleyball). Her extra-curricular activities involve Habitat for Humanity, Empty Bowls (food banks), American Society of Civil Engineers, Society of Women Engineers, and many more. Katie’s interest in the repair industry stems a lot from her childhood years where she assisted her family with home repairs. As Katie grew older, she began participating in church mission trips every summer to impoverished communities to help repair homes. Since then, Katie has worked on several internships including McCotter Energy Systems, Kiewitt Construction, Kehoe-Henry and Associates, and WJE. Her most recent experience included large restoration projects such as the Washington Monument, the St. Louis Arch, and several Frank Lloyd Wright buildings. Congratulations Katie and best of luck with your studies and your future career in the repair industry!

## APRIL DINNER MEETING HIGHLIGHTS

On April 20th, 2021 The Chicago ICRI Chapter conducted a virtual “Dinner Program” around the topic of Using Crystalline products for concrete repairs and non- traditional applications. The program was presented by Sandy Bradford-Dice with Xypex.

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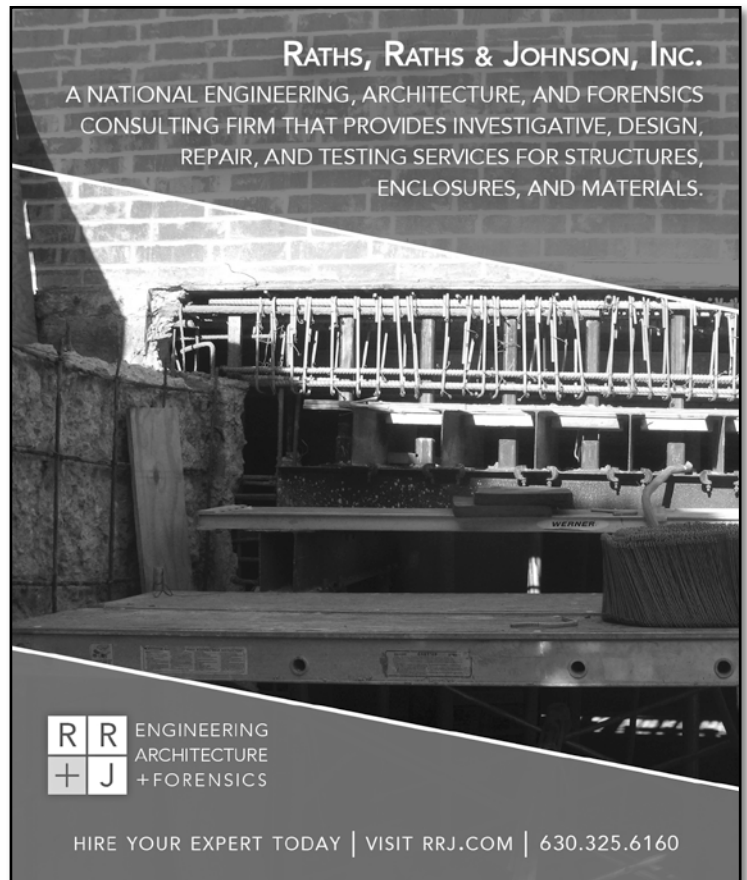
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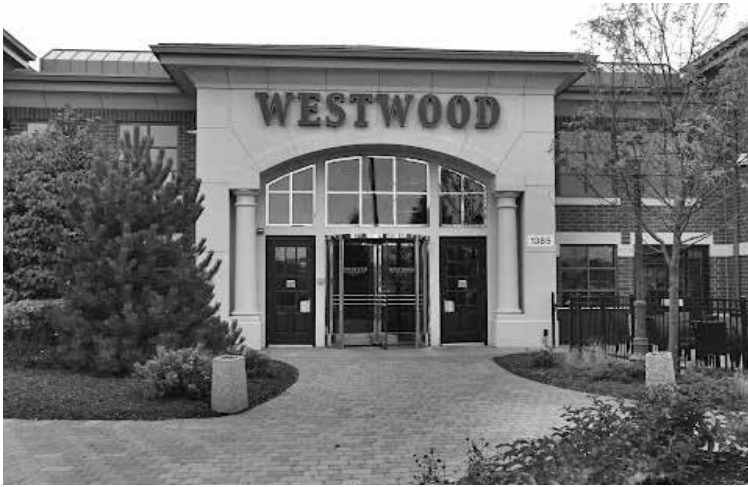
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## SEPTEMBER DINNER MEETING ANNOUNCEMENT

**WHEN**

September 21, 2021  
5:00 PM CDT - 8:00 PM CDT

**TICKETS**

\$65.00 Entree #1  
Mediterranean Herb Chicken -  
Sautéed Spinach/ Feta Cheese/  
Onions/ Black Olives/ Roasted  
Tomatoes/ Extra Virgin Olive Oil

\$65.00 Entree #2  
Filet Mignon - Certified

**DIRECTIONS**

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

Please join us for two presentations about the 2020  
ICRI Chicago Chapter Project Award's Dinner Meeting

**PROJECT OF THE YEAR & AWARD OF MERIT**

An insightful review of the exceptional repair projects by each  
project team.

5:00-6:00 PM: REGISTRATION / CASH BAR

6:00-7:00 PM: DINNER

7:00-8:00 PM: PRESENTATIONS AND AWARDS

ICRI now has the option to provide CHS interpreter services.  
Please email [info@icrichicago.org](mailto:info@icrichicago.org) to confirm availability.

**DINNER MENU****Starter:**

Field Greens House Salad

**Entree:**

#1 - Mediterranean Herb Chicken - Sautéed Spinach/ Feta Cheese/  
Onions/ Black Olives/ Roasted Tomatoes/ Extra Virgin Olive Oil

or

#2 - Filet Mignon - Certified Black Angus Barrel Cut/ Red Wine Sauce

**Side:**

Grilled Asparagus or Red Skin Mashed Potatoes

**Dessert:**

Vanilla Ice Cream Sundae

## PROJECT OF THE YEAR – “ETERNAL INDIAN” CHIEF BLACK HAWK STATUE, WOOD DALE, IL

**Project Description**

Designed by Lorado Taft, the Eternal Indian, or Black Hawk Statue, stands on a high bluff in Lowden State Park as a tribute to Native Americans. The 50 ft figure, dedicated in 1911 and listed on the National Register of Historic Places in 2009, is structural concrete with an architectural concrete exterior. Despite past attempts to repair extensive cracking and spalling, the exterior architectural concrete had deteriorated significantly. In 2015, Landmarks Illinois named the Eternal Indian as one of the state’s Most Endangered Historic Places.

**Project Background**

After 100 years of exposure to weather, the exterior architectural concrete had cracks, spalls, delaminations, and calcium carbonate staining, resulting in loss of feature definition, diminished aesthetics, and risk of irreversible damage. In 2011, on the statue’s 100th anniversary, local preservationists began fundraising through the Illinois Conservation Foundation to restore the statue.

Upon qualifying for an Illinois Department of Natural Resources (IDNR) matching grant, work began in earnest in 2014 to perform a condition assessment on the statue and identify the extent of repairs needed. To conserve resources for repairs, the project team initially did not develop repair documents, but worked closely with a conservator to develop the scope of work and means of repairs.

Restoration work began in 2015, focusing on removing deteriorated concrete and developing a concrete mix design to match the existing architectural concrete, but two issues paused the statue’s restoration. The first was a disagreement between team members over the means of repairs, leading to a change in the project’s contractor. The second was the Illinois state government shutdown from 2015 to 2017, which halted the project for more than two years.



Once the shutdown was resolved, IDNR asked SGH to develop project documents, including details and specifications identifying the contractor’s requirements, extent of the repairs, and means and methods for each of the repair areas. When the project documents were complete, IDNR negotiated with prequalified concrete restoration companies and selected Quality Restorations, Inc. (Quality), to execute the repairs. Due to the unique funding model and that a minimum of 51% of the money was private, IDNR did not have to execute an open bid process. Quality started the architectural concrete mix design matching work in 2018 and started repair work in 2019. They completed the repair work in January 2020 and IDNR accepted the repairs in August 2020.

## PROJECT OF THE YEAR – “ETERNAL INDIAN” CHIEF BLACK HAWK STATUE, WOOD DALE, IL

### Concrete Mix Design

Critical to the project’s success was developing durable concrete repair mixes (paste color, aggregates, and texture) to match and be compatible with the existing historic concrete. The team executed an extensive sampling and testing process to ensure the best long-term choice and meet the original aggregate and cement composition, weathered look, and provide durability.

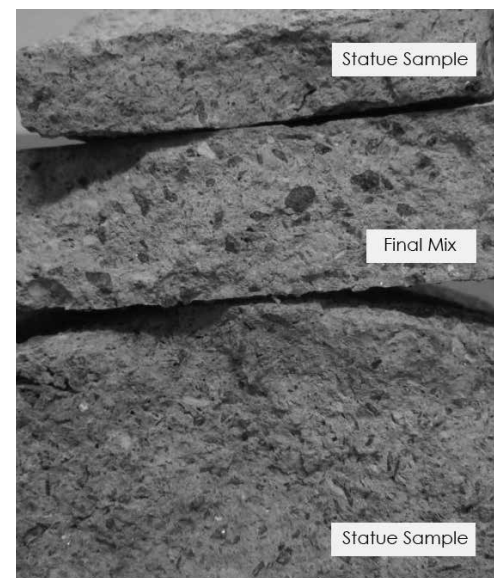
SGH outlined the statue’s repair program, including a mixture of hand-applied surface, poured-in-place, and shotcrete repairs. One key aspect was confirming the architectural concrete had a similar aesthetic match, regardless of the type of repair being performed. Quality performed mockups of the mix design and performed freeze-thaw testing on the shotcrete sample. IDNR and SGH evaluated an in-place mockup to confirm the aesthetic match and approve the final mix design.

### Repair and Restoration

SGH’s project documents identified the extent of the statue’s repairs based on a 2014 assessment. Since then, the statue experienced five additional winters, with three unprotected. In addition, any concrete not repaired during this project would be left unaddressed for a significant amount of time. Recognizing these factors, the project team conservatively estimated the extent of repairs to ensure the project’s efficacy and IDNR included a significant contingency for additional repairs. The project team performed visual and sounding surveys of the statue surface to verify the locations and extent of unsound concrete during the restoration. The sounding survey identified additional unsound concrete, primarily at the arms and back. Ultimately, Quality performed 695 sq ft of concrete repairs.

The team discovered existing fiberglass formwork for the arms in the storage shed at Lowden State Park, which we posited had been part of an earlier repair undertaking. Quality confirmed the formwork was reusable with minor modifications. SGH specified materials designed for long-term durability, such as stainless steel (ss) threaded rods for pins and reinforcement and ss mesh for near surface crack control. At the form-and-pour repairs, the design included 1/2 in. dia. ss threaded rods epoxied into the structural concrete, a reinforcing grid of 3/8 in. dia. ss threaded rods attached to the 1/2 in. dia. rods and located approximately mid-depth of repair, and ss wire mesh at the exterior with 3/4 in. concrete cover.

Quality used shotcrete for the remaining repairs, as small areas for hand-applied repairs were eliminated with the sounding survey. This approach benefited the project by eliminating the need for laser scanning and constructing new forms for the repairs. However, the shotcrete application requires a skilled craftsman and artisan to shape the concrete to meet the final surface profile for the statue, especially in areas where the replacement was extensive and the existing profile not clearly defined. For these repairs, SGH specified 3/8 in. dia. ss threaded rods epoxied into the existing concrete, a reinforcing grid of 1/4 in. dia. ss threaded rods attached to the 3/8 in. dia. rods, and ss wire mesh at the exterior with 3/4 in. concrete cover.



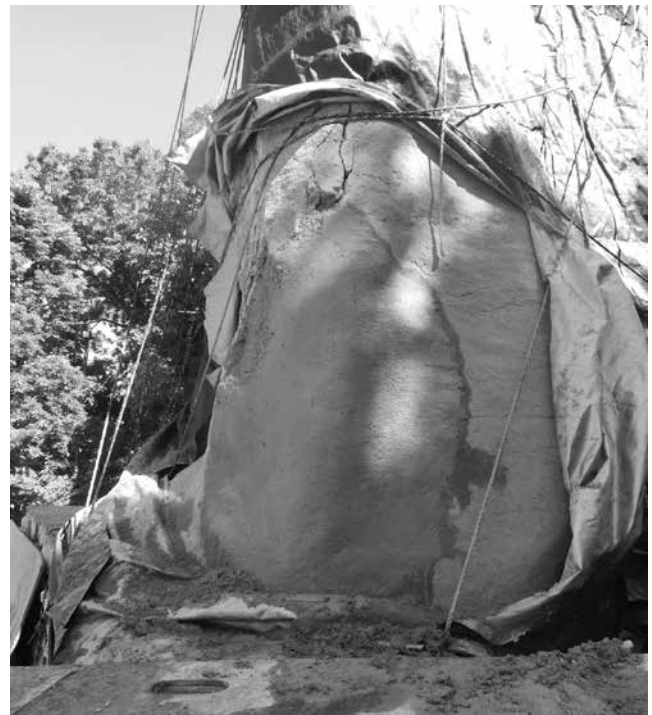
## PROJECT OF THE YEAR – “ETERNAL INDIAN” CHIEF BLACK HAWK STATUE, WOOD DALE, IL

We selected the smaller rod diameters due to the stiff mix characteristics of shotcrete and to limit shadowing behind materials. Quality applied the shotcrete in two lifts, a base layer, and a finish layer. The first lift allowed Quality to shape the repair to match the general shape of the statue at the repair location, which was especially critical at the robes on the front of the statue. The second lift encapsulated the ends of the epoxied rods and the wire mesh in a uniform thickness, which minimized the sculpting needed to match the finished profile of the statue.

After placing the repair concrete, Quality lightly sandblasted and coated the entire statue with a clear water-repellent coating to provide a more uniform appearance and help to protect the original and new concrete.

### Summary

For early 1900s construction, the Eternal Indian demonstrates a technologically advanced application of concrete and formwork and serves as a treasured tribute to Native Americans. “According to a story attributed to Lorado Taft, he and his colleagues tended to stand with their arms folded over their chests. The pose made him think of the Native Americans who were so reverent of the beauty of nature and who probably had enjoyed the same view.” In addition to its cultural significance, the statue is “...estimated to weigh 100 tons and is thought to be the second-largest monolithic concrete statue in the world.” By restoring the statue and preserving its original detail, the project team has maintained an important piece of history for generations to come.



### Project Team

Owner – Illinois Department of Natural Resources  
 Restoration Engineer – Simpson Gumpertz & Heger  
 Repair Contractor: Quality Restorations, Inc.

### Project Cost and Duration:

Repair Project Contract Price: \$500,000  
 Overall repair project duration: Five months active  
 (6 years overall)

## AWARD OF MERIT - DEPAUL CENTER SCROLL BRACKETS AND FAÇADE REPAIR PROJECT, CHICAGO, IL

DePaul University's DePaul Center building was recently the site of an interesting and complex façade restoration project. Formerly the Goldblatt's Building, the DePaul Center building at the corner of State Street and Jackson Boulevard is an 11-story steel framed building with a 2-story penthouse. Terra cotta cladding and a terra cotta cornice is present on the west and south elevations of the building and wraps partially onto the east elevation. The terra cotta cornice is present at the main roof level and 112 original cantilevered terra cotta scroll bracket assemblies were hung just below the cornice. The original scroll bracket assemblies projected out approximately five feet from the main face of the building façade and were supported by steel framework at the roof level. Several of the 112 original cantilevered terra cotta scroll brackets had been exhibiting cracking, thus requiring temporary stabilization in previous years utilizing steel plates and anchor rods forming a type of sling. Additionally, numerous original terra cotta column cover units exhibited systematic cracking at the floor lines throughout the façades as observed by Walker Consultants during previous façade examinations of the building. Various miscellaneous façade deficiencies were also noted during previous façade examinations.

### Investigation

Prior to restoration design, and with contractor assistance from NRS, Walker was hired by DePaul University to perform an investigation of the existing cracking terra cotta scroll brackets to identify potential causes of the cracking, to understand how the units were supported and installed, and to determine an appropriate design approach for replacement. Based on Walker's investigation, we believed that the cracking of the original terra cotta scroll brackets was primarily caused by the corrosion and section loss of the steel 'J' hook and/or embedded rod in one of the outer cells of the scroll bracket. This 'J' hook and embedded rod comprised a portion of the main support for the scroll bracket in this location, therefore section loss of either element would ultimately allow the exterior side of the cantilevered scroll bracket to drop slightly. This localized movement on only one side of the cantilevered scroll bracket likely put significant stress on the scroll bracket near the back embedded portion and resulted in cracking.

### Recommendations and Design

Walker recommended replacing 100% of the 112 original terra cotta scroll bracket assemblies in a phased approach with new GFRC units. The repair project was a design-build effort with Walker Consultants (Walker) and National Restoration Systems, Inc (NRS). The replacement GFRC scroll bracket assembly consisted of three individual GFRC box units and the GFRC scroll bracket unit below them. The GFRC pieces were made using molds of original terra cotta units removed from the building façade by NRS during the investigation period. A new stainless-steel rod was installed through the cells and webs of the front portion of the GFRC scroll bracket unit towards the bottom of the assembly. The back portion of the scroll bracket unit was pocketed into the terra cotta and backup brick masonry wall. Stainless steel 'J' hooks were hooked around the rod running through the scroll bracket unit and were anchored with nuts to new steel angles within the cornice above.



Temporary support on cracked original terra cotta scroll brackets



New GFRC scroll brackets being installed

## AWARD OF MERIT - DEPAUL CENTER SCROLL BRACKETS AND FAÇADE REPAIR PROJECT, CHICAGO, IL

The new steel angles spanned and rested on existing steel I-beams within the cornice allowing the front portion of the scroll bracket unit to cantilever from the façade, like the original terra cotta design. This entire new support system was innovatively designed to allow field assembly with limited, staged construction/access. This type of innovation was possible due to the close collaboration between Walker and NRS. The GFRC box units located above the scroll bracket unit consisted of two back side pieces and one front piece. These three box units rested on the cantilevered scroll bracket unit and were anchored together from above using stainless steel rod "staples." During removal and replacement of the scroll bracket assemblies, existing corroded steel lateral test for existing adjacent terra cotta units were also replaced with stainless steel rods and were epoxy embedded into the backup brick masonry. The exchange of terra cotta to GFRC for the scroll bracket assemblies provided a light and durable product that reduced the load of the box units on the scroll brackets, reduced the overall weight of the scroll bracket assemblies and reduced the amount of anchorage necessary to secure the box and scroll bracket units to the façade when compared to heavier terracotta.

### Construction

The DePaul Center scroll brackets and facade repair project took place over a period of sixteen months and was completed in April 2020. The construction phase of the project was divided into three main phases. The first phase included all facade repairs on the north half of the west elevation; the second phase included all facade repairs on the south half of the west elevation; and the third phase included all facade repairs on the south elevation and the south end of the east elevation. Mobilization for the facade repair project included an innovative design of two 28-foot double-wide motorized swing stages with 1,500-pound hoists. This allowed for proper clearance of the projected cornice and provided appropriate lifting capacity for the size and weight of the GFRC pieces. A protective sidewalk canopy was erected and utilized for each phase of the project. During construction, Walker performed construction observation services, with each phase being completed prior to the commencement of the next phase. Walker performed part-time site observation visits to observe and document the various steps of the replacement sequence of the 112 scroll bracket assemblies. The replacement sequence steps included demolition of the three existing terra cotta 'box' units above the existing terra cotta scroll bracket, demolition of the existing terra cotta scroll bracket, installation of the new GFRC scroll bracket and installation of the three new GFRC 'box' units.

### Conclusion

The scroll bracket repair project was a very rewarding façade restoration project which Walker Consultants was fortunate to be involved. The project's complexity, various materials used, the wonderful loyalty and trust from our client as well as the innovation and collaboration between Walker, NRS and the Client made this project a success.



New GFRC scroll brackets with stainless steel 'J' hooks'



Completed replacement of scroll brackets

AWARD OF MERIT - DEPAUL CENTER SCROLL BRACKETS AND FAÇADE REPAIR PROJECT, CHICAGO, IL



Delivered GFRC scroll brackets



Condition of original 'J hooks' supporting the original scroll brackets

**Project Team**

Owner: DePaul University  
 Restoration Engineer:  
 Walker Consultants  
 Repair Contractor:  
 National Restoration Systems  
 Material Supplier(s):  
 GFRC – Renaissance Design;  
 Terra Cotta – Boston Valley  
 Terra Cotta

**Project Cost and Duration**

Repair Project Contract Price:  
 \$2.5 Million  
 Overall repair project duration:  
 2018-2020 (16 Months)

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**Mark R. Nelson**  
President

Nelson Testing Laboratory  
717 Industrial Drive  
Elmhurst, IL 60126

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[mnelson@nelsontesting.com](mailto:mnelson@nelsontesting.com)  
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SENIOR PROJECT MANAGER

T: 847.838.6610 / F: 847.838.6750 / C: 815.482.9926  
E: [jfadellin@hsshardsurfacesolutions.com](mailto:jfadellin@hsshardsurfacesolutions.com)  
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**Heath Morrall**  
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 (708)-548-0062



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