

September 2009



# Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



## THIS ISSUE:

- **DINNER MEETING ANNOUNCEMENT:**  
Extreme Restoration  
Cantilever - Slab,  
Joist & Masonry  
Façade Removal  
and Replacement
- **TECHNICAL ARTICLE:**  
"Benefits of Architectural  
Coatings on Concrete  
Façades" Sean Meracle,  
Sherwin Williams
- **MEMBER SPOTLIGHT:**  
Walker Restoration  
Consultants
- **PHOTOS:**  
Chapter Golf Outing  
& Day at the Races



# P.A.M. Positioner-Actuator-Manipulator

## Features & Specifications

- Mount 15 lb. chipping hammer to 35 lb. rivet buster hydro-demo lances, rock drill and other various tools
- Designed to push the tool against the surface
- Water nozzle for dust control
- Air powered over hydraulic and electric
- 100° swing lock hydraulic knuckle boom
- 4 caster wheels and 2 removable 12" wheels
- 3 outriggers for stability
- Multi-function electronic controls
- Air consumption 50 to 60 CFM at 90 P.S.I.
- Total weight without tool = 1100 lbs.
- Frame size 32" x 72" without removable wheels
- Operating temperature: between 36° F and 104° F

## Benefits

- Increase productivity 3 to 6 times over traditional method
- Get fast and consistent production on walls and overhead repair
- Eliminate hammer dead blows, vibration and weight
- Effortless, finger tip controls
- Greater job focus, comfort
- More flexibility in job costing
- Chipping is no longer a punishment



**More Productivity, Less Injuries**



# LIGHTWEIGHT CONCRETE (5,000 psi)



PACKAGED CONCRETE, INC.  
18950 SOUTH LORANG ROAD  
ELBURN, ILLINOIS 60119  
(630) 557-8252  
PCI-IL.COM



## Benefits

- Easier to handle
- Reduced dead weight
- Lower thermal conductivity
- Increased STC
- Increased fire ratings

## Attributes

- Compressive Strength.....+6,000psi
- Pre Consumer Recycled Content.....77%
- Equilibrium Density.....110.8
- Air Content.....5% - 7%

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## CALENDAR OF EVENTS

## AUGUST - SEPTEMBER

30-2 **ASCE's 14th Conference on Cold Regions Engineering**  
*Holiday Inn Downtown Waterfront*  
Duluth, Minnesota

## SEPTEMBER

16 **Chapter Dinner Meeting:  
"EXTREME CONCRETE REPAIRS"**  
*Mr. Bob Tracy, Chief Engineer -  
Carl Walker, Inc.*  
*Ditka's Oakbrook Terrace*  
2 MidAmerica Plaza, #100

## OCTOBER

20 **11th Annual Architectural Conference  
and Product Show**  
*Drury Lane Theatre*  
100 Drury Lane, Oakbrook Terrace, IL

21-23 **ICRI Fall Convention:  
"FLOORING ISSUES..."**  
*The Buttes, a Marriott Resort*  
Tempe, Arizona

## NOVEMBER

8-12 **ACI Fall Convention:  
"SPICE UP YOUR CONCRETE"**  
*Marriott New Orleans*  
New Orleans, Louisiana

## FEBRUARY

2-5 **World of Concrete**  
*Las Vegas, Nevada*

## 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



Our second Dinner Meeting Seminar of the year went off without a hitch this past April as 50+ attendees gathered to enjoy an informative Chris Bopp of Hohmann & Barnard speak to the topic of Through Wall Flashing Systems. We'd like to thank Chris and all who attended for making the evening a success.

Also in April the ICRI National Spring Convention enjoyed a better than expected turnout in these challenging economic times. Excellent speakers, topics, and seminars spring boarded the event while committees met to review, update and revise ICRI guidelines.

This past May, 42 foursomes attended our 14th Annual Chapter Scholarship Golf Outing. The weather actually cooperated this year and surprised golfers with mild weather conditions. Golfers were confused about how to swing the club without rain, sleet, snow and driving winds pummeling them. Thank you to all those in attendance, the personnel behind the scenes, the members who volunteer their time, and all the terrific sponsors who make the event an annual success.

So as 2009 marches on we hope that you'll stay involved in the upcoming events. Some 60+ people have already signed up for the "Day at the Races" at Arlington International Racetrack this August. Furthermore, we look forward to your participation on September 16th at Ditka's in Oak Brook. This 3rd Dinner Meeting Seminar of the year features Bob Tracy of Carl Walker, Inc reviewing concrete repairs on plazas, parking structures and facades. Bob is a Chief Engineer at Carl Walker and lends 40 years of construction experience to our local chapter.

Please stay tuned into the Chicago ICRI Chapter. Stay involved and get others involved.

Sincerely

Michael A. McCluskey  
President - ICRI Chicago Chapter



## CHICAGO CHAPTER 2009 OFFICERS & DIRECTORS

The 2009 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Michael McCluskey.

<b>President</b>	Michael McCluskey BASF Building Systems 630.234.7516 mike.mccluskey@basf.com	<b>Vice President</b>	Pat Martin Carl Walker, Inc. 630.307.3800 pmartin@carlwalker.com
<b>Secretary</b>	Craig Frier Sika Corporation 847.767.2414 frier.craig@sika-corp.com	<b>Treasurer</b>	Jeff Smith Mapei, Inc. 708.977.7776 jsmith@mapei.com

### VISIT THE ICRI WEBSITE!

- Member Benefits
- Online Membership Directory
- Enhanced Chapter Pages
- Supporting Members
- Board Members
- Committees
- Upcoming Events
- Awards Programs
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- Concrete Repair Bulletin
- Advertising Opportunities
- Repair Technology

[www.icri.org](http://www.icri.org)

### DIRECTORS

*Serving 2nd of 2-year term*

**Zelina Laube**  
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312.251.1931  
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**Steve Genovese**  
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*New 2-year term*

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**Jeff Zeitler**  
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### COMMITTEE CHAIRMAN 2009

COMMITTEE	CHAIRMAN	PHONE	E-MAIL
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## ICRI CHICAGO CHAPTER ENGINEERING FIRM SPOTLIGHT - WALKER RESTORATION CONSULTANTS

In a continuing effort to provide our chapter members a detailed look at the local active engineering firm members in our area, we proudly to present **Walker Restoration Consultants** as the featured engineering firm for this edition.

**COMPANY PROFILE:** Walker Restoration Consultants has a staff of more than 30 engineers and technicians nationwide that specializes in restoration of buildings, plazas, stadiums, parking garages, and specialty structures. Major services provided to our clients include: condition assessments, structure evaluations, building code compliance review, lifecycle cost analyses, repair design, and construction administration services. They currently have approximately 270 employees in 15 offices across the United States. Walker was started in 1965, and has remained in business for 44 years.



**KEY ICRI CONTACT:** Brian Faith and Dan Moser are both new members to the organization and look forward to the exchange of ideas, involvement in the technical committees and networking. However, our firm has staff whom are actively involved nationwide including Randy Beard from our Denver office who is currently the acting President of the organization.

### ICRI AND WALKER RESTORATION CONSULTANTS

**When asked about using ICRI Technical Guidelines:** Being a member of the Chicago Chapter allows us an interface with contractors, manufacturers and other consultants interested in bettering the industry. Organizations such as ICRI provide an avenue for the exchange of information relevant to our industry and networking with firms interested in providing quality workmanship and end product to the Clients in which we are providing services.

**What does being a member of ICRI and the Chicago Chapter mean to you?** Being a member of the Chicago Chapter allows us an interface with contractors, manufacturers and other consultants interested in bettering the industry. Organizations such as ICRI provide an avenue for the exchange of information relevant to our industry and networking with firms interested in providing quality workmanship and end product to the Clients in which we are providing services.

### CHICAGOLAND PROJECTS:

Following are notable repair and restoration projects that Walker Restoration Consultants has been involved in:

**Grant Park South Garage:** The Grant Park South Garage repair area consisted of three garage levels; 536,000 SF with 15,000 spaces and the garage supported Michigan Avenue, Jackson Street, and portions of Grant Park left undisturbed above the garage. The garage has provided prime parking for retail, office, entertainment, and recreational users for almost 40 years. It has also provided substantial revenue for the Chicago Park District, the owner. Rehabilitation of the garage was also important because of the high parking demand in this area. Implementation of the project was necessary to correct structural deterioration and modernize other aging systems in the Garage. Similar structures of this age and construction had often been demolished. The Chicago Park District needed the most cost-effective solution that minimized the disruption of operations for the garage, business, retail, museum, and park activities. The rehabilitation provided the best and most cost effective solution and extended the service life by more than 25 years.

The improvements greatly enhanced operations and updated the garage for changed building codes and laws. The exiting single entrance and exit was relocated to provide two entrance and two exits. Structural deterioration was the most significant in the garage and roadway slabs. Deicing salt contamination caused the structural deterioration observed in the floor slab systems within the garage and in the slabs that support Michigan Avenue and Jackson Street. Mechanical, electrical, plumbing and other systems were also deteriorated in the garages and considering the age of the systems, at the end of their useful service lives. Building code changes, fire sprinkler requirements, and other changes to codes or laws (ADA) needed to be incorporated in the rehabilitation. Repairs were phased to keep at least two lanes of traffic in North and South directions at all times.

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**200 East Delaware:** 200 East Delaware garage is a three-level, cast-in-place concrete structure attached to a 35-story condominium building. Walker performed a condition assessment of the garage structure and identified numerous deficiencies including extensive corrosion of the two supported levels and slab on grade, poor drainage profile of the slabs, and poor lighting. To extend the service life of the structure we developed repairs which included removal of the top four inches of concrete to provide for installation of new top steel, reprofiling of the surface and installation of additional drains, application of waterproofing membrane on supported levels, installation of galvanic anodes to reduce the potential for corrosion of reinforcing steel in basement level, as well as new lighting, paint and wall coverings. The construction repair costs were \$1,600,000.00 and were completed in September of 2008. We have since been engaged to perform additional assessments of the roof system and roof level concrete, both which exhibit deterioration.



(cont. on page 6)

## ICRI CHICAGO CHAPTER ENGINEERING FIRM SPOTLIGHT - WALKER RESTORATION CONSULTANTS (CONT.)

**Post-Tensioned Slab and Beam Repairs:** Carle Hospital North Parking Structure was designed by Richard C. Rich Associates and was constructed in 1977. The parking structure is a four supported level structure constructed of post-tensioned beams and slabs. Walker performed a detailed post-tensioning assessment of the structure because of significant rust staining and concrete deterioration observed along most of the construction joints in the structure, a known weakness in many post-tensioned structures built in the 1970's and 1980's. Based on the findings from our post tensioning system evaluation, significant repairs to the post tensioning system are being performed. Walker developed construction documents for proper repairs to the post-tensioning system including appropriate shoring and counter-weighting for slabs and post-tensioned beams during slab and beam tendon repairs.



**CDM Building – DePaul University:** Built in the early 1900's, the CDM building is constructed of a steel frame with riveted connections, brick masonry and terra cotta, punched window openings and a flat roof. The building has undergone previous façade repairs, window replacements and interior renovations throughout the years. Walker has been performing both visual and critical examinations of the exterior façade to fulfill the requirements of the City of Chicago Façade Examination Ordinance and to assist the University in identifying maintenance needs for the façade. During the last critical façade examination, deterioration of the steel shelf angle and terra cotta support hardware was identified and attributed to long-term water leakage through the parapet wall and coping. Walker prepared repair documents to address the deteriorated steel and for replacement of selected terra cotta with GFRC. During repairs, localized deterioration of the main steel beams and columns were uncovered requiring development of additional repair documents to address the concealed steel frame conditions.



**CONTACT INFORMATION:** [www.walkerrestoration.com](http://www.walkerrestoration.com)  
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**Additional Office Locations:** Atlanta • Denver • Kalamazoo • Philadelphia • Burbank • Elgin • Los Angeles • San Francisco • Boston  
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**Position:** Restoration Department Head  
**Email Address:** [Dan.Moser@walkerrestoration.com](mailto:Dan.Moser@walkerrestoration.com)

**WANTED**

If your engineering or contracting firm would be interested in participating in upcoming publications please contact:

**Craig Frier** - ICRI Chicago Chapter-Publication Committee at:  
Phone: 1-847-767-2414  
Fax: 1-847-223-6147  
Email: [frier.craig@sika-corp.com](mailto:frier.craig@sika-corp.com)

## BENEFITS OF ARCHITECTURAL COATINGS ON CONCRETE FAÇADES

The application of paint coatings is generally thought of as a way to provide decorative finishes to objects or structures. It is a way to make things look more attractive and create a feeling or mood toward something that, in its raw state, may not be so aesthetically pleasing. While this is true, coating materials also provide protection that assists in extending the life of the surfaces to which they are applied. This article is intended to provide general information relative to the three basic types of architectural coatings specifically formulated for application to exterior vertical concrete surfaces. Also discussed are the more common performance characteristics that can be effective in contributing to a sustainable structure.

In order for a coating material to be considered viable for use on exterior concrete structures, it must be compatible with the substrate. Furthermore, as concrete substrates change with the surrounding environment, coatings must allow for these variances in order to maintain effectiveness over time. Simply stated, coatings that do not remain on the surface to which they are applied cannot provide long-term protection.

Concrete coatings are formulated to provide excellent mechanical adhesion to the pore structure of the substrate, as well as resistance to changes that challenge the adhesive bond, such as water vapor transmission, efflorescence and thermal movement. Most manufacturers provide performance data relative to these criteria on their product data sheets. Also included in this information are recommendations and procedures for application of each specific coating.

Consideration must also be given to the presence of surface cracks, voids, high pH levels and surface contaminants such as form release agents and curing compounds that may be present at the time of application. Surface preparation of concrete, as illustrated in ICRI Guideline #03732 and ASTM 4258, is considered the most crucial component of a coating or recoating project. Additionally, manufacturer's representatives are an excellent source for information relative to the appropriate surface preparation and surface repairs required for a specific product or project.

Features of some concrete coatings focus on exposure of a structure to specific environmental conditions. Coatings can assist other building materials, such as sealants, roofing materials, panel systems and horizontal membranes, to prevent water intrusion into the structure. As the ingress of water may also transport salt and other harmful elements into the structure, contributing to accelerated corrosion and carbonation of the concrete, this type of material can greatly extend the life of a structure. Compatibility with other building materials must be addressed when specifying coatings within a system.

Another preferred measure of protection is resistance to carbonation. These materials, labeled CO<sub>2</sub> diffusion coatings, prevent the transfer of carbon dioxide into the substrate and therefore retard the carbonation process (see below). This is accomplished when a coating material is capable of filling micro-cracks and surface pores in the concrete substrate, limiting the amount of CO<sub>2</sub> gas that is able to penetrate into the wall structure.

**Concrete Carbonation is the process whereas carbon dioxide reacts with calcium hydroxide in hydrated Portland cement to produce calcium carbonate. This process lowers the pH of the concrete and therefore reduces the protection of steel reinforcement materials within the concrete structure. Another result of this process is the formation of shrinkage cracks within the effected cement paste, allowing for further intrusion of water, salt and other gases.**

Other types of protection that are beneficial to the overall project is resistance to the long-term effects of UV exposure. This allows the coating material to maintain the desired color and sheen, as well as film integrity. Still other protective characteristics are resistance to salt spray and acid attack, which may be important in a coastal environment.

There are many different types of coatings for use on concrete structures. The most commonly used fall into three general categories: Solvent-based, Water-based and Elastomeric.

Solvent-based coatings generally offer the greatest level of adhesion and durability and are more resistant to UV breakdown and wind erosion. These materials also provide more tolerance to difficult substrates, as the solvent vehicle is capable of penetrating through many surface contaminants and absorbing into the pore matrix of concrete surfaces. Solvent-based materials will also cure at lower temperatures. Though the amount of volatile organic compounds (VOC's) in solvent-based coatings is higher than that of water-based and Elastomeric coatings, the benefit is a coating that provides a longer term of service.

Water-based coatings are lower in VOC's and therefore offer low odor and easy cleanup with soap and water. While these coatings are excellent materials for application to concrete surfaces and are considered to be more "user friendly," surface preparation and job site conditions are more critical.

Elastomeric coatings, while being water-based, differ from traditional water-based materials in that they provide a greater degree of flexibility and elongation than both solvent-based and water-based coatings. This can be a valuable characteristic when considering application to a substrate that will undergo a greater degree of movement. Elastomeric coatings can offer continued protection if small cracks form within the concrete surface, as some expansion of the coating material will be accommodated. However, as with all coatings, cracking in concrete should be addressed with the application of a sealant or patching material to insure long-term protection.

Other differences in coating design are relative to application and film thickness. Most concrete coatings are considered to be "hi-build," meaning that they can be applied to achieve a greater dry film thickness (DFT) in a single application. However, "thin-film" coatings, such as concrete stains and water-based paints, are lower cost options that primarily provide decoration to the substrate. These do not generally offer the same protective values as their hi-build counterparts, as many of the protective characteristics that coatings provide are relative to the dry film thickness that is achieved. Some coatings are also available in different textures, providing a profile that can either mask or change the overall appearance of a structure.

*(cont. on page 8)*

## BENEFITS OF ARCHITECTURAL COATINGS ON CONCRETE FAÇADES (CONTINUED)

**"Coatings for tomorrow."** Over time, the coatings industry has evolved to focus on the formulation of coatings for specific uses. Coatings that manufactured for application to concrete have not been left out of that process. Because these coatings are formulated to provide both decorative characteristics and protection to the substrate, challenges must be met to maintain maximum effectiveness while conforming to federal and local laws that limit the way those coatings are manufactured.

Furthermore, these challenges create positive change not only by improving products and the efficiency of manufacturing

facilities, but also by increasing consideration of the environment during both the manufacturing and application process. Many facilities have begun using recycled materials whenever possible to eliminate manufactured waste and the unnecessary use of natural resources. Manufacturers also work hard to eliminate emissions of contaminants into the environment. Because of these changes, coatings are far superior in performance and far less harmful to the natural environment and the workplace environment than those of even ten years ago.

*Written by Sean Meracle, Sherwin Williams, Inc.*

### DAY AT THE RACES PHOTOS



# ICRI 2009 FALL CONVENTION REGISTRATION

**WEDNESDAY, OCTOBER 21, 3:00 PM-5:30 PM    THURSDAY, OCTOBER 22, 7:30 AM-5:30 PM    FRIDAY, OCTOBER 23, 7:30 AM-1:30 PM**

To register for the ICRI 2009 Fall Convention, complete and submit the convention registration form. If you are registering more than one person at your company, please complete a separate form for each person and submit all forms with one consolidated payment.

**Mail:** ICRI, 2009 Fall Convention, PO Box 3085, Farmington Hills, MI 48333-3085  
**Phone:** 248-848-3809    **Fax:** 248-848-3711    **Web site:** www.icri.org

**Early Registration:** Register by Sunday, September 20, 2009, to receive 10% off your registration fee.

**Cancellation Policy:** ICRI will refund the registration fees for any cancellations received before Sunday, September 20, 2009, minus a \$25 cancellation fee. ICRI will not refund registration fees for cancellations received after Sunday, September 20, 2009.



## CONVENTION REGISTRATION FORM

Name \_\_\_\_\_ Title \_\_\_\_\_  
 Name on badge \_\_\_\_\_ Company \_\_\_\_\_  
 Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 E-mail \_\_\_\_\_ Guest Name \_\_\_\_\_  
 Chapter Delegate    Chapter: \_\_\_\_\_    Guest E-mail \_\_\_\_\_

FEE SCHEDULE	ICRI MEMBER	ADD'L MEMBER, SAME CO.	NONMEMBER	TOTAL
<b>Full meeting (early registration)</b>	\$345*	\$315*	\$425*	_____
	(*Discounted rate for registrations received on or before September 20, 2009)			
<b>Full meeting</b>	\$385	\$355	\$465	_____
<b>One day only: (check one)</b>	\$195	\$195	\$245	_____
<input type="checkbox"/> Thursday <input type="checkbox"/> Friday	<i>(All of the above fees include Thurs. and/or Fri. breakfasts, Thurs. and/or Fri. lunches, and the Welcome Reception.)</i>			
<b>ADDITIONAL FEES</b>				
<b>Inter-Chapter Luncheon</b> (no charge for chapter delegate)	\$10	\$10	\$10	_____
<b>Guest</b> (does not include lunches) (includes Welcome Reception)	\$25	\$25	\$25	_____
<b>Awards Banquet</b>	\$95	\$95	\$95	_____
<b>Chapter Golf Outing</b>	\$90	\$90	\$90	_____
<b>Chapter Guest Outing</b>	\$46	\$46	\$46	_____
<b>Chapter Special Tour</b>	\$40	\$40	\$40	_____

**Total Enclosed (U.S. Funds) \$** \_\_\_\_\_

### METHOD OF PAYMENT

**Check enclosed** (U.S. funds—**Make payable to ICRI**)

**MasterCard**     **Visa**     **AmEx**    Card No. \_\_\_\_\_    Exp. Date \_\_\_\_\_

Name on card \_\_\_\_\_    Signature \_\_\_\_\_

**Please check if you have any special needs requirements to fully participate in our meetings/events.**

Requirements: \_\_\_\_\_

WEB-FALL09

## CHICAGO CHAPTER HOSTS GOLF OUTING - JUNE 22, 2009

The Chicago Chapter of ICRI held its 14th Annual Scholarship Golf Outing on May 28th at Indian Lakes Resort- Blackhawk Trace course. This year's turnout was nothing short of prior years as a full house filled the golf carts throughout all 27 holes. With scattered clouds in the sky and a slight breeze in the air, the course played fast. The day was truly exceptional!

Many thanks go out to our generous Hole Sponsors for without their support, the event would not live up to it's reputation. Hole sponsors for 2009 are:

BASF Building Systems  
Chemgrout, Inc.  
DeNeef Construction Chemicals  
CETCO  
Sika Corporation  
J.E. Tomes & Associates  
Lymtal International, Inc.  
LS Contracting Group  
Lance Construction Supplies, Inc.  
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Mapei  
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Xypex Chemical Corporation  
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Monson-Nicholas, Inc  
Structural Preservation Systems  
National Restoration Systems, Inc.  
King Packaged Materials Company  
PCI, SpecMix  
Zera Construction Company, Inc.  
Momentive / GE Silicones

As the morning unfolded, many golfers warmed up to the challenge in being the chapter's "**Low GROSS**" Team Champions for 2009. This year's winning team consisted of Jim Bax, John Morgan, Michael Higgason and Nick Liguras, all of J. Gill & Company. Congratulations guys on an outstanding score!

In addition to a Low Gross, a "**Low NET**" title was awarded to Zelina Laube of Klein and Hoffman, Inc., Alex Szatenek of Building Technology Consultants, Craig Frier of Sika Corporation and Dan Nolan of Nolan Caulking. Congratulations to all!

Many individual awards were also given for fantastic golf shots, among them, our "**Big Hitters**" Scott Rand, King Packaged Materials AND Mike Higgason, J. Gill & Company.

**Closest to the Pin** awards were given to Gary Koch of Walker Parking Consultants and Rob Galbavy of Chemgrout, Inc.

As to the day's Raffle, many outstanding prizes were awarded, among them:

- 32" Flat Screen TV, awarded to Lee Maniatis of Mark I
- 32" Flat Screen TV, awarded to Bob Dilla of the Glenrock Company

This year's 50/50 Raffle was worth \$860 and was awarded to Jim Gill of J. Gill & Associates.

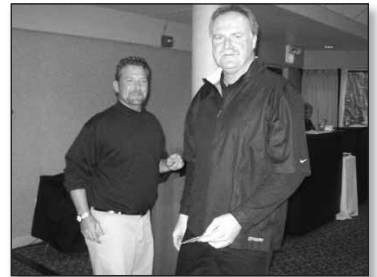
As our Chapter's featured Scholarship Fund-Raising Event, this year's golf outing was once again, a tremendous success. Unfortunately, due to a lack of qualified response, there were no scholarships awarded however there will be additional funds available for qualified applicants next year.

Many thanks go out to this year's Golf Outing Committee members: Steve Niewiadomski - National Restoration Systems, Mike McCluskey - BASF, Bob Dilla- the Glenrock Company. Without their time, dedication and planning, this year's event could not have run so smooth.

**Thank You!**









INTERNATIONAL  
**CONCRETE REPAIR**  
 INSTITUTE

## 2009 MEMBERSHIP APPLICATION

Company \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Phone ( ) \_\_\_\_\_ Fax ( ) \_\_\_\_\_

Mobile \_\_\_\_\_

E-mail \_\_\_\_\_

Web site \_\_\_\_\_

Sponsor (if applicable) \_\_\_\_\_

**Membership Dues** (see schedule) \$ \_\_\_\_\_

**Non-North American Continent  
 Postage/Phone Surcharge-\$20** \$ \_\_\_\_\_  
*(All countries except U.S., Canada,  
 Mexico; applies to all categories)*

**Chapter Dues** \$ \_\_\_\_\_

**Total** \$ \_\_\_\_\_

Check Enclosed (U.S. Funds)     Visa     MC     AmEx

Card # \_\_\_\_\_ Exp. date \_\_\_\_\_

Name on card \_\_\_\_\_

Signed \_\_\_\_\_

*Note: Dues are not deductible as charitable contributions for tax purposes, but may be deductible as a business expense.*

**MAIL OR FAX TO:** ICRI, PO Box 3085, Farmington Hills, MI 48333  
**PHONE:** 248-848-3809    **FAX:** 248-848-3711    **E-MAIL:** membership@icri.org

## INSTITUTE MEMBERSHIP DUES SCHEDULE

PLEASE CIRCLE YOUR DUES AMOUNT				
Gross income (repair-related)	<\$1 M	\$1 M to \$2.5 M	\$2.5 M to \$5 M	>\$5M
<b>Company Membership Categories</b>				
Supporting member	\$3,125			
Contractor	\$345	\$615	\$1,250	\$1,880
Manufacturer	\$345	\$615	\$1,250	\$1,880
Consultant	\$345			
Design Professionals	\$345			
Distributor	\$345			
Architect	\$195			
Manufacturer's Rep.	\$195			
Additional Indiv. from Member Co.	\$110			
<b>Individual Membership Categories</b>				
Facility Owner	\$160			
Government Agency	\$160			
Union	\$160			
Individual	\$160			
Educator*	\$80			
Government Employee*	\$80			
Retired**	\$75			
Student/Union Apprentice*	\$10			

\* Verification of status required—provide copy of I.D. or other documentation.

\*\* Any member that has reached age 65 and has been a member of ICRI for at least 5 years.

## CHAPTER MEMBERSHIP DUES SCHEDULE

CHAPTER MEMBERSHIP REQUIRES INSTITUTE MEMBERSHIP			
Arizona -----	\$55	New England -----	\$40
Baltimore-Washington -----	\$45	North Texas -----	\$40
Carolinas -----	\$55	Northern California -----	\$40
Central Florida -----	\$40	Northern Ohio -----	\$40
Chicago -----	\$50	Ohio River Valley -----	\$40
Connecticut -----	\$40	Pacific Northwest (OR, WA, BC) ---	\$40
Delaware Valley (PA, NJ, DE) ----	\$35	Pittsburgh -----	\$30
Florida West Coast -----	\$55	Puerto Rico -----	\$25
Georgia -----	\$40	Quebec Province -----	U.S. \$20
Great Plains -----	\$40	Rocky Mountain -----	\$50
Hellenic (Greece) -----	U.S. \$50	Southeast Florida -----	\$40
Houston -----	\$40	Southern California -----	\$50
Indiana -----	\$50	Southwest Florida -----	\$50
Iowa/Illinois -----	\$40	Virginia -----	\$40
Metro New York -----	\$40	Western New York -----	\$30
Michigan -----	\$50	Wisconsin -----	\$40
Minnesota -----	\$45		

## COMPANY SPECIALTIES

COMPANY SPECIALTIES ARE SEARCHABLE IN THE "WHO'S WHO MEMBERSHIP DIRECTORY" AND ON ICRI'S WEB SITE FOR CORPORATE MEMBERS ONLY.				
<b>Contractors:</b> <input type="checkbox"/> Architectural repair C01 <input type="checkbox"/> Cathodic protection C02 <input type="checkbox"/> Caulking C03 <input type="checkbox"/> Cement grouting C04 <input type="checkbox"/> Cementitious overlays C05 <input type="checkbox"/> Chemical grouting C06 <input type="checkbox"/> Coatings C07 <input type="checkbox"/> Epoxy injection C08 <input type="checkbox"/> Epoxy toppings C09 <input type="checkbox"/> Expansion joints C10 <input type="checkbox"/> Foundations C11 <input type="checkbox"/> Hydrodemolition C12 <input type="checkbox"/> Masonry, stone restoration C13 <input type="checkbox"/> Post-tensioning C14	<input type="checkbox"/> Shotcrete C15 <input type="checkbox"/> Slabjacking C16 <input type="checkbox"/> Spalls C17 <input type="checkbox"/> Structural strengthening C18 <input type="checkbox"/> Surface prep (as sub) C19 <input type="checkbox"/> Surface sealing C20 <input type="checkbox"/> Underwater C21 <input type="checkbox"/> Waterproofing C22	<input type="checkbox"/> Corrosion inhibitors MM07 <input type="checkbox"/> Curing compounds MM08 <input type="checkbox"/> Elastomeric membranes MM09 <input type="checkbox"/> Fibers MM10 <input type="checkbox"/> Floors MM11 <input type="checkbox"/> Grouts MM12 <input type="checkbox"/> Joint and loop fillers MM13 <input type="checkbox"/> Joint systems MM14 <input type="checkbox"/> Sealants MM15 <input type="checkbox"/> Sealers MM16 <input type="checkbox"/> Structural strengthening MM17 <input type="checkbox"/> Tank linings MM18	<input type="checkbox"/> Cathodic protection EM02 <input type="checkbox"/> Grout pumping equip. EM03 <input type="checkbox"/> High pressure water equip. EM04 <input type="checkbox"/> Injection equipment EM05 <input type="checkbox"/> Miscellaneous tools EM06 <input type="checkbox"/> Shotcrete equipment EM07 <input type="checkbox"/> Surface preparation equip. EM08 <input type="checkbox"/> Testing equipment EM09	<input type="checkbox"/> Heavy and civil structures E06 <input type="checkbox"/> High-rise structures E07 <input type="checkbox"/> Parking structures E08 <input type="checkbox"/> Petrographic analysis E09 <input type="checkbox"/> Post-tensioning E10 <input type="checkbox"/> Structural strengthening E11 <input type="checkbox"/> Testing E12 <input type="checkbox"/> Underwater E13 <input type="checkbox"/> Utilities E14
<b>Material Manufacturers/                      Distributors/Reps:</b> <input type="checkbox"/> Adhesives MM01 <input type="checkbox"/> Admixtures MM03 <input type="checkbox"/> Anchors MM04 <input type="checkbox"/> Cement-based products MM05 <input type="checkbox"/> Coating systems MM06	<b>Equipment Manufacturers/                      Distributors/Reps:</b> <input type="checkbox"/> Accessories EM01	<b>Engineers/Consultants/                      Architects:</b> <input type="checkbox"/> Bridges E01 <input type="checkbox"/> Corrosion evaluation E02 <input type="checkbox"/> Evaluation E03 <input type="checkbox"/> Floors E04 <input type="checkbox"/> Foundations E05	<b>Other repair-related                      specialties:</b> _____ _____ _____	

INTERNATIONAL CONCRETE REPAIR INSTITUTE  
CHICAGO CHAPTER

**Date: April 21, 2009**

**Topic: "Extreme Restoration: Cantilever – Slab, Joist, & Masonry Façade Removal and Replacement"**

**FEATURED SPEAKER: Bob Tracy of Carl Walker, Inc**

This presentation, previously featured at the Spring Convention in Minneapolis, will provide unique insight into a cantilever slab frame restoration. You will be taken through a step-by-step process that covers investigation, design development, and restoration of a critically damaged cantilever slab and exterior masonry wall system.

Our featured speaker will be **Bob Tracy** of Carl Walker, Inc.'s Kalamazoo office. Bob has devoted his career to concrete deterioration analysis and restoration program development. With over 33 years of professional experience, he has been responsible for various parking garage and plaza restoration projects and building envelope investigations throughout the United States.



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## SPRING CONVENTION SUMMARY

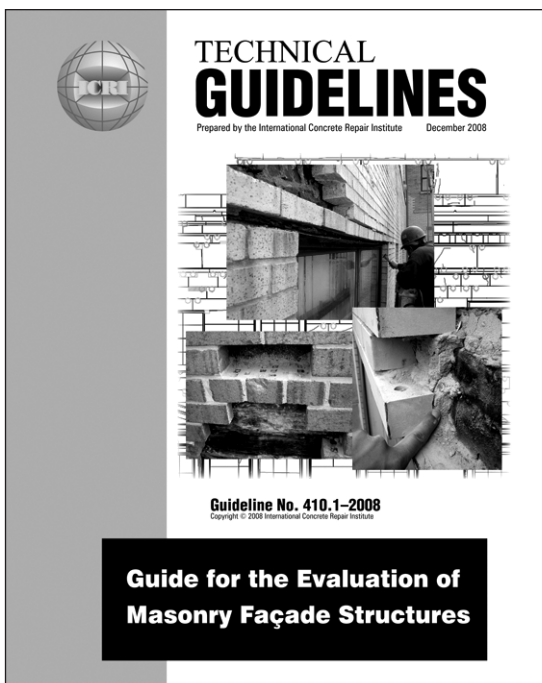
Pat Martin  
Carl Walker, Inc.  
Chicago Chapter Vice-President

A few short months ago, the Hilton Minneapolis was host to the ICRI National Spring Convention. I was intrigued with the "Extreme Concrete Repairs" theme for the event and happy to act as the Chicago Chapter Delegate. As delegate, I had the opportunity to meet with other chapter representatives and officers at the Inter-Chapter Luncheon and the Chapters Committee meeting to discuss some of the issues that face the local chapters including membership, participation, and programming. We discussed the current delegate program, which brings representatives from around the country together twice a year at the spring and fall conventions, and looked at alternatives such as regional "round table" sessions to increase attendance from the smaller chapters with limited resources. The Spring Convention also includes presentation of the Chapter Awards, of which the Chicago Chapter received "Outstanding Chapter" honors! Chapter of the year honors went to the Carolinas Chapter this year.

I also had a chance to participate in a few of the many national technical committee meetings, and sit in on several of the technical sessions. With topics ranging from dams and bridges to parking structures and waste treatment plants, there was certainly something for everybody. Between sessions there was plenty of time to meet with the various exhibitors and talk with professionals from around the country about their own "extreme" challenges.

I took from the Spring Convention a lot of ideas that I hope will help our local chapter continue to grow and flourish. I also have a greater appreciation for the time and effort that goes into the event by the various planners, presenters, exhibitors, and committee members. The Spring and Fall conventions provide more than a chance to network, they are vital to the function of the national organization. I would encourage any who can go to make the trip and experience it for themselves. The next convention is scheduled for October 21-23, 2009 at The Buttes, a Marriott Resort, in Tempe, AZ; the theme for the event will be "Flooring Issues".

## GUIDE TO THE EVALUATION OF MASONRY FAÇADE STRUCTURES



Published:	2008	
Published Pages:	4	
Purchase Price:	Member	\$34.00
	Non-Member	\$55.00
Order Code:	410108	

### Abstract:

This guideline describes the tools, techniques and processes that are used in the evaluation of masonry façade structures. It offers background into the history and evolution of masonry structure design and construction. It also describes the entire evaluation process, from an investigation of the history of the structure to technique and non-destructive and visual evaluation through the physical inspection process.

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### ICRI ANNOUNCES RELEASE OF NEW AND REVISED GUIDELINES

The International Concrete Repair Institute (ICRI) announces the release of NEW Technical Guideline No. 410.1-2008 "Guide for the Evaluation of Masonry Façade Structures." As well as the release of a Revised and Updated version of Technical Guideline No. 310.1R-2008 "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion (formerly known as 03730).

#### New Masonry Facade Guideline

This Guideline describes the tools, techniques and processes that are utilized in the evaluation of masonry façade structures. It offers background into the history and evolution of masonry structure design and construction. It describes the entire evaluation process, from an investigation of the history of the structure to techniques and procedures for non-destructive and visual evaluation through the physical inspection process.

**Member Price: \$34.00**

#### Revised Guideline: formerly 03730

ICRI Guideline No. 310.1R-2008 (formerly 03730) "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion" outlines the steps in preparing concrete for replacement materials in areas where corroded reinforcing steel has caused cracking, spalling, delamination, or other types of deterioration. Topics covered include exposing and undercutting reinforcing steel, edge and surface conditioning, repair of reinforcing steel, and removal geometry.

**Member Price: \$17.00**

ICRI Guidelines are available from your local chapter board member or committee member.

### ICRI TECHNICAL GUIDELINES & PUBLICATIONS

### MEMBER COST

ICRI TECHNICAL GUIDELINES & PUBLICATIONS		MEMBER COST
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
G 03736	Guideline for the Evaluation of Unbonded Post-Tensioned Concrete Structures	\$ 28.00
G 03737	Guideline for the Preparation of Concrete Surfaces for Repair Using Hydrodemolition Methods	\$ 28.00
G 03738	Guideline for Selecting Grouts to Control Leakage in Concrete Structures	\$ 28.00
G 03739	Guideline to Using In-Situ Tensile Pull-Off Tests to Evaluate Bond of Concrete Surface Materials	\$ 28.00
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

To Purchase any of the above Bulletins or Guidelines, please contact: Jeff Smith, Chapter Treasurer @ 708-977-7776 or [jsmith@mapei.com](mailto:jsmith@mapei.com)

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