



February 2010

Concrete Reinforcer

A Publication of the Chicago Chapter ICRI



THIS ISSUE:

- **DINNER MEETING ANNOUNCEMENT:**
Mortars for Masonry
- **4TH ANNUAL SEMINAR ANNOUNCEMENT:**
Expansion/Contraction Joints: Problems & Solutions
- **UPDATE:**
ICRI Fall Convention "Flooring Issues"
- **MEMBER SPOTLIGHT:**
Building Technology Consultants, PC (BTC)
- **PHOTOS:**
November Dinner Meeting





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CALENDAR OF EVENTS

FEBRUARY

- 2 **ICRI World of Concrete "Kick-Off" Party**
Rio Lanes, Rio Resort and Casino- Las Vegas
- 2-5 **World of Concrete**
Seminars: Feb 1-5th, Exhibits: Feb 2-5th
Las Vegas Convention Center, Las Vegas, NV
- 23 **ICRI Chicago Chapter Dinner Meeting "Mortars for Masonry", presented by PCI**
Ditka's, Oak Brook Terrace, IL
- 21-24 **SWRI Winter Technical Meeting**
The Ritz-Carlton, South Beach, Miami, FL

MARCH

- 4 **Glenrock Company's 27th Annual "State of the Art" Show**
Drury Lane Theatre, Oakbrook Terrace, IL
- 21-25 **ACI Spring Convention: "Xtreme Concrete"**
Sheraton Chicago, Chicago, IL

APRIL

- 1 **ICRI Chicago Chapter Dinner Meeting: TBD**
Erie Café, Chicago, IL

MAY

- 13 **Chicago Chapter Spring Workshop: "Expansion Joint: Problems and Solutions"**
200 W. Wrightwood Avenue, Elmhurst, IL

JUNE

- 10 **15th Annual Scholarship Golf Outing**
Indian Lake Resort, Bloomingdale, 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



With the year 2009 behind us, we are now ready to start a new year filled with new possibilities. As your newly-elected ICRI Chicago Chapter president, I am optimistic about the opportunities the year 2010 brings and look forward to serving this great organization. I would also like to thank the other board members for their past service and welcome our three new directors Homa Ghaemi of Klein Hoffman, Alex Szatanek or Building Technologies Consultants, and

Tim Zera of Zera Construction. This dedicated group is the life-blood of the organization and a big part of the reason our local chapter is one of the strongest in the nation. Of course, the true strength of our Chapter is in our members who have always been great supporters. I would encourage all of you to stay involved at any level, whether that means attending a dinner meeting or golf outing, or becoming active in a committee. The opportunities are out there!

I would also like to thank Mike McCluskey of BASF who served as the Chicago Chapter president for the 2009 term. Under Mike's stewardship our Chapter continued to prosper in 2009 despite the economic climate. Our four dinner meetings were well-attended and our golf outing raised over \$5,000 for the Chicago Chapter scholarship program. Our Day at the Races and Holiday Social events also drew strong crowds.

I am honored to serve as President for the 2010 term. I believe I can speak for the entire Board when I say that we are dedicated to providing the same high level of quality events and programs that are the trademark of the Chicago Chapter. With your continued support, I know that this year will be another great success!

Sincerely

Patrick D. Martin, P.E.
President – ICRI Chicago Chapter



CHICAGO CHAPTER 2010 OFFICERS & DIRECTORS

The 2010 Chicago Chapter Officers and Directors are already hard at work under the leadership of our new President, Pat Martin.

- | | | | |
|------------------|---|-----------------------|--|
| President | Pat Martin
Carl Walker, Inc.
630-307-3800
pmartin@carlwalker.com | Vice President | Craig Frier
Sika Corporation
847-767-2414
frier.craig@sika-corp.com |
| Secretary | Zelina Laube
Klein and Hoffman, Inc.
312-251-1931
zlaube@kleinandhoffman.com | Treasurer | Jeff Smith
Mapei, Inc.
708-977-7776
jsmith@mapei.com |

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- | | |
|--|---|
| <i>Serving 2nd of 2-year term</i> | <i>New 2-year term</i> |
| Jim Hansel
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| Jeff Zeitler
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Financial	Jeff Smith	708-977-7776	jsmith@mapei.com
Membership	Craig Frier	847-767-2414	frier.craig@sika-corp.com
Nominations	Pat Martin	630-307-3800	pmartin@carlwalker.com
Programs	Sean Meracle	312-666-5245	sean.m.meracle@sherwin.com
Publications	Craig Frier	847-767-2414	frier.craig@sika-corp.com
Seminars	Jeff Smith	708-977-7776	jsmith@mapei.com
Socials	Sean Meracle	312-666-5245	sean.m.meracle@sherwin.com
Scholarship	Lee Sizemore	630-941-8970	lelandsizemore@sbcglobal.net

MEET YOUR NEW BOARD OF DIRECTORS...

Alex Szatanek
Building Technologies Consultants
847-788-8880
aszatanek@btcp.com

Alex Szatanek has been involved in the evaluation and forensic investigation of existing buildings and structures since 1998. He has investigated and/or managed over 300 building façade, balcony, roof, parking garage, and plaza projects. Alex Szatanek earned an Associate's Degree in Engineering Science from the State University of New York at Canton in 1996 and his Bachelor of Science degree in Civil Engineering from the Clarkson University in 1998. Alex Szatanek has been an active member of ICRI for the past 3 years.

Homa Ghaemi
Klein and Hoffman, Inc.
312-251-1931
hghaemi@kleinandhoffman.com

Ms. Homa Ghaemi has recently joined the Chicago chapter board of directors for ICRI. As an Associate Vice President/Principal with Klein and Hoffman, Inc., Ms. Ghaemi is responsible for structural restoration/rehabilitation group, and has oversight of the staff and restoration projects, in Chicago and South Florida offices. Ms. Ghaemi has over 24 years of experience in structural steel design, concrete design, analysis and project management. She has performed projects in the adaptive reuse and restoration arena, as well as new construction in the hospitality, education, healthcare, telecommunications, US Air Force and food manufacturing industries.

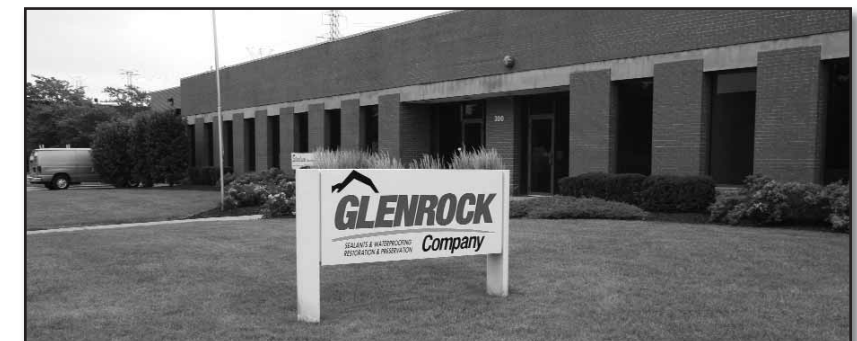
Tim Zera
Zera Construction
847-470-6047
tzera@zeraconstruction.com

Tim is President of Zera Construction and brings over 20 years of experience in concrete restoration. Tim oversees all business development, concrete investigation services and operations of the company, and occasionally manages projects directly. Tim's favorite aspect of Zera Construction is how they promote from within and he is very proud how this translates to effectively run projects in the field. ICRI-Member for about 10 years and I served 3 years on the board in the early 2000's.

PRESS RELEASE

The Glenrock Company, a distributor of specialty building products: Sealants, Restoration and Waterproofing materials, with locations in Chicago, Milwaukee and Indianapolis, is proud to announce the relocation of their corporate headquarters from Lake Street in Northlake to **200 W. Wrightwood Avenue, Elmhurst, IL**. In moving from Northlake to Elmhurst, the new location offers a 48,000 square foot heated warehouse, 6,000 square foot of showroom area, and a first-class training center - capable of hosting up to 40 individuals. "We are very excited about our new location- it's long overdue..." stated Jim Nicholl, company President. "Having been in business for over 50 years, we have grown together with our customers and vendors, many who have been with us since day one... we are very proud of what we've built together" said Nicholl.

Glenrock's official 1st day in business at the new location was Monday, November 30th. To know more about Glenrock call 630-530-9600 or visit: www.glenrockcompany.com.



ICRI CHICAGO CHAPTER MEMBER SPOTLIGHT: BUILDING TECHNOLOGY CONSULTANTS, PC (BTC)

COMPANY PROFILE: Founded in 2001, **Building Technology Consultants, PC** is a professional consulting firm specializing in the evaluation and repair of building envelope components, structural systems, architectural elements, and historic preservation. BTC offers a wide range of highly specialized consulting services to its clients, including forensic investigations, condition evaluations, repair design, bidding assistance, contract administration, peer review/design consultation, and transitional studies for new buildings. In addition, BTC offers extensive forensic expertise in evaluating and solving water leakage and moisture-related issues through roofing, waterproofing, and exterior wall systems.

Since its inception, BTC has completed over 400 projects at various high-rise buildings, shopping malls, educational facilities, hotels, multi-family residential buildings, parking garages, athletic arenas, religious facilities, and historic buildings.

KEY ICRI CONTACTS: Alex Szatanek is a Senior Engineering Consultant at BTC as well as a recently appointed Director for the Chicago Chapter of ICRI. He has been an active member of ICRI for the past 3 years. In September 2008, Alex was a presenting speaker at the monthly Chicago Chapter of ICRI meeting. The presentation discussed "The development, intuitive design and repairs that were performed on the Winston Towers #4 Building".

BTC has been a member of ICRI since its inception in 2001. Kami Farahmandpour and Josh Summers, the Principals of BTC, are also members of ICRI.

REPRESENTATIVE PROJECTS: The following are restoration projects that were successfully completed by BTC:

Naperville Financial Center Parking Garage Repairs: Naperville Financial Center is a 6-story steel-framed commercial building, built in 1985 and 1986. The building is connected to a two-level parking structure along its east side. The parking structure consists of a partially below grade level, which is constructed on grade, and an elevated parking deck, which is constructed at the ground level. The upper deck structure primarily consists of precast concrete columns and ledger beams supporting precast, pre-stressed double tee concrete beams with 8-foot wide flanges. The concrete double tee beams span the length of two parking stalls and a drive aisle.

Prior to our involvement, repairs to failed sealant joints between the concrete beam flanges and localized deterioration of the top surface of the beam flanges had been performed. However, these repairs yielded a relatively short service life, resulting in extensive leaks and continued deterioration of the beam flanges.

Due to the poor past performance of the sealant joints between double tee flanges, BTC developed a unique repair detail to minimize continued deterioration due to traffic and snow plows. This detail included a fabric-reinforced detail coat of traffic bearing membrane (TBM) over the sealant joints prior to installation of the TBM over the entire parking deck. After 1-1/2 years of service since repairs were completed and 2 winter seasons with snow plow operations, the joints exhibit only minor wear of the top coat of TBM and no water leakage to the lower garage level.

This project also included patch repairs, crack repairs, and modification of the foundation walls at the upper-level entrances due to continued water penetration into the lower garage areas at these locations.

20 East Cedar Facade Repairs: The 20 East Cedar Building is a 19-story gothic style high rise completed in 1925. The building is concrete framed and clad in brick and architectural terra cotta. Continued corrosion of embedded anchoring and support steel caused significant deterioration to the architectural terra cotta and brick masonry, in the form of cracking, spalling, and displacement. Repair of the exterior walls required removal and replacement of corroded steel shelf angles, rebuilding portions of the 18th floor parapet walls, removal and replacement of significantly deteriorated terra cotta units, removal and resetting of loose terra cotta units, removal and replacement of failed sealant at previous crack repairs, installation of retrofit facade stabilization pins, epoxy repair of selected cracked terra cotta units, and repointing of deteriorated mortar joints.



Continued on page 7

ICRI CHICAGO CHAPTER MEMBER SPOTLIGHT: BUILDING TECHNOLOGY CONSULTANTS, PC (BTC) (CONTINUED)

In order to minimize cost and overall project duration, terra cotta units requiring replacement were removed during the critical examination completed several months before the start of the anticipated repair project. This allowed the terra cotta to be ordered and fabricated during the winter months, and delivered prior to start of construction the following spring. Terra cotta fabrication was completed concurrently with the overall repair design and bidding for the project.

Motorola Headquarters Waterproofing Repairs: The Motorola Headquarters Building in Schaumburg is a steel frame mid-rise building constructed in 1974. The building includes an underground parking garage. Portions of the parking garage around the perimeter of the building are located below a plaza deck which was originally constructed with mortar-set granite pavers (a closed system). A waterproofing system was originally installed below the granite pavers. As the waterproofing system aged, water leakage became more persistent and replacement was necessary.

There were several inherent deficiencies in the original construction and design of the plaza system. These included lack of a drainage slope at the waterproofing membrane level, and insufficient base flashing heights at vertical projections. In addition, the granite cladding over several exterior columns had been installed after installation of the original waterproofing system, leaving no room for installation of new waterproofing base flashing at the columns unless the large granite cladding panels were removed from the columns.

The repair design included installation of a thin bonded overlay over the structural slab to achieve positive drainage at the waterproofing membrane layer, installation of a hot rubberized asphalt waterproofing system, and changing the wearing surface from the original mortar set granite pavers to an open system consisting of granite pavers supported by pedestals. In order to achieve this and provide an economical solution for the client, the existing large granite pavers were cut in-situ (prior to removal) to smaller size pavers that were suitable for pedestal support application (analysis was performed to ensure that the granite pavers could support the traffic when they were set on pedestals at four corners). Unique flashing details were required to be designed to integrate the new waterproofing system with the adjacent building and granite cladding panels at the columns. After these repairs were completed, the smaller pavers were reset on pedestals. A portion of the plaza which was previously paved with granites was also converted to a vegetated roof area.



CONTACT INFORMATION: Building Technology Consultants, PC
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Fax: (847) 788-8882
Web: www.btcpc.com
E-mail: info@btcpc.com

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

INTERNATIONAL CONCRETE REPAIR INSTITUTE
CHICAGO CHAPTER
4TH ANNUAL SEMINAR



Date: Thursday, May 13, 2010

Topic: Expansion/Contraction Joints: Problems & Solutions

Our 4th annual seminar will focus on the many challenges in selecting and installing the wide variety of different expansion and contraction joint systems throughout the concrete repair industry. We will cover expansion and contraction systems to include preformed mechanical, compression seals, and high performance field molded technologies (Caulks).

Various speakers from within the industry will lend their expertise on subjects ranging from system designs, to installation techniques covering common problems that arise and their respective solutions. This seminar has something to offer for specifiers and installers alike and is well-suited to anybody in the concrete repair industry. The program will include a hands-on demonstration so please dress accordingly.

Location:

The Glenrock Company
200 West Wrightwood Avenue
Elmhurst, IL 60126
630.530.9600

Times:	9:30am - 10:00am	Registration
	10:00am - 12:00pm	Morning Session
	12:00pm - 12:45pm	Lunch
	12:45pm - 3:00pm	Afternoon Session

Cost: \$35 Per Person (lunch will be provided)

Please respond no later than noon on **April 30th** to assure a dinner.

Name: _____

Name: _____

Name: _____

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____

RSVP: Phone: (630) 307-3800 Fax: (630) 307-7030 E-mail: kasuncion@carlwalker.com

Questions? Contact Jeff Smith at (708) 977-7776 or jsmith@mapei.com

Checks made payable to: **Chicago Chapter ICRI**

Send Checks to: ICRI, c/o Kelly Asuncion, Carl Walker, Inc., 1920 S. Highland Ave., Ste. 210, Lombard, IL 60148

2009 HOLIDAY SOCIAL SUMMARY

On Thursday, December 10, 2009, the Chicago Chapter of ICRI hosted the 6th annual Holiday Social at Indian Lakes Resort. This social event was held to raise money for charity as well as to promote a social event for ICRI members and guests. Attendance for the event was down slightly from previous years with approximately 20 brave souls as bitter cold weather and snowy conditions made travel difficult. Those who did venture out were treated to an Italian Buffet, pizzas and Texas Hold'Em tournament. Through raffle tickets and donations, over \$300.00 was raised for the Greater Chicago Food Depository, in addition to a stockpile of food donations. Congratulations and thanks to the raffle winner Blake Rago of RH Ward & Associates who generously donated his entire winnings to this good cause.

The Texas Hold'em tournament, run by Mike McCluskey of BASF, started with 18 players spread out over three starting tables. After about 90 minutes, the final table emerged and 30 minutes later Mike McCluskey rode his hot streak to a first place finish. Who brought those cards anyway Mike? Congratulations also to the remaining top 5 winning finishers: 2nd place winner Torrey Thompson of Carl Walker, Inc., 3rd place winner Scott Fichtel of IWS, 4th place winner Joe Augustine of Structural Preservation Systems, and 5th place winner Mark Sitar of Sitar Construction. Honorable mention goes to Bill Mahler of Carl Walker, Inc. for being the first one out. Better luck next year Bill!

Thanks to everyone who contributed to this event, especially Mike McCluskey of BASF for coordinating the event and tournament and Kelly Asuncion of Carl Walker, Inc. for her assistance in running the event as well as the other contributing committee members. Thanks also go to those brave enough to attend despite the weather, as well as those who signed up but just couldn't make it.



ANNOUNCEMENT

THE GLENROCK COMPANY'S 27TH ANNUAL
"STATE OF THE ART SHOW"

Thursday, March 4, 2010

The Drury Lane Theatre (Rte. 83 and Roosevelt Rd., Oakbrook Terrace)

4:00 – 8:00 pm

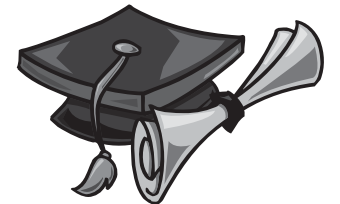
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Please RSVP at www.glenrockcompany.com or 708-562-6700



2010 ICRI CHICAGO CHAPTER
SCHOLARSHIP PROGRAM

The Scholarship committee is now accepting applications for the Chicago Chapter scholarship program. The Scholarship Program's goal is to assist undergraduates who have decided to study in a related field. If you know anyone who may be interested in the Scholarship award program and would like to submit an application, contact Jeff Carlson at (847) 255-5200 or Email a request to JeffCarlson@CEEngineers.com or Lee Sizemore at 630-941-8970 lelandsizemore@sbcglobal.net. Applications are due back by April 30, 2010.

INTERNATIONAL CONCRETE REPAIR INSTITUTE
CHICAGO CHAPTER

Date: Tuesday, February 23, 2010
Topic: "Mortars for Masonry"

FEATURED SPEAKER: Shawn O'Malley, PCI

The understanding and selection process of masonry mortars in new and restoration construction will be examined in detail. This process introduces new standards and guidelines tailored towards historic masonry and also what current mortar types mean in today's industry. Mortar testing and considerations for factory pre-blended materials will also be identified.

Shawn O'Malley joined the PCI team as part of the SPEC MIX division early in 2001. Accumulating over 15 years of masonry experience, Shawn, who has a Bachelor of Science degree in Business Administration from Bloomsburg University, enjoys meeting the daily challenges associated with the technical sales of pre-blended mortars, grouts, stuccos and shotcretes. His early masonry experiences, coupled by a vocational masonry training program and Masonry Internship, has allowed for acceleration throughout his sales career. Committed to continuous improvement, Shawn shares associations with the International Concrete Repair Institute and is certified with the National Concrete Masonry Association field testing technicians (NCMA/CCMTT).

Ditka's
Two Mid America Plaza
(22nd & Route 83)
Oakbrook Terrace, IL 60181
(630) 572-2200

Cocktails at 5:00 pm, Dinner at 6:00 pm, Presentation at 7:00 pm

\$60 per person

Please respond no later than noon on **February 16th** to assure a dinner.

****Dinner selections will be taken at the event****

Name(s): _____

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____

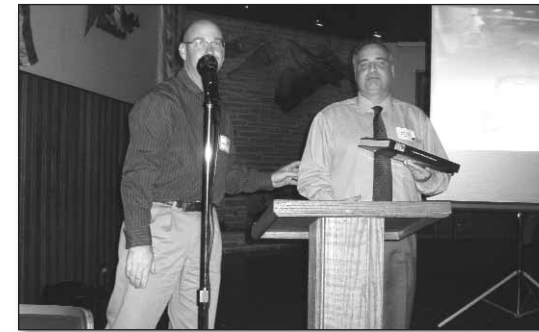
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NOVEMBER DINNER MEETING SUMMARY

On Tuesday, November 17th, the Chicago Chapter of ICRI co-hosted its final dinner meeting of the year with the Illinois Chapter of ACI. A total of 65 participants filled the Erie Street Café for the presentation on "The Repair and Preventative Maintenance of Concrete Slabs". Thanks go to our speaker, Steve Geiger of WR Meadows, who provided an enjoyable presentation that covered both causes and solutions to concrete surface deterioration as well as ways to reduce such deterioration during initial construction. Thanks also to the dinner attendees who continue to show their support for ICRI through participation.



ICRI FALL CONVENTION "FLOORING ISSUES" UPDATE - BY MIKE MCCLUSKEY

The ICRI Fall Convention was held at "The Buttes Marriot Resort" in Tempe, AZ in October 21-23, 2009. Over 250 people attended making it one of the top five best attended ICRI Conventions to date.

Highlights of the event are as follows:

The 12 technical sessions of 45 minutes each were displayed in the Amphitheater and featured highly regarded industry guest speakers. The sessions spanned the flooring gambit from "Importance of Curing New Concrete", "Job Site Problems", "Repair, Fixing Foul-Ups", "Troubleshooting with Petrography", "Moisture Testing" and so forth.....all the technical sessions were highly educational and relevant.

On another note, the Certification Committee has been authorized to manage the development of the Floor Moisture Testing Certification Program and the Repair Technician Certification Program. For more information on this please refer to www.icri.org.

Another item that came out of the National Fall Convention can be found quoted directly from the Concrete Repair Bulletin: "The Chapters Committee is implementing a Chapter Round Table series of meeting that will bring together chapter representatives on a regional basis over a 2-year period. With this close-up involvement directly with chapter officers who do not normally come to national meetings, we hope to maintain a closer relationship with our chapters, provide chapter leadership training, generate additional interest in ICRI, and improve the awareness of what the organization can provide to its membership."

During the Inter-Chapter Luncheon/Forum discussion of mandatory filing of individual local Chapters was the topic. Each local ICRI Chapter is expected to incorporate no later than end of 2010. Materials will be forwarded to the Treasury for review and once filled out sent to ICRI National for processing.

All in all the event was well-attended by contractors, distributors, manufacturers, and design professionals alike and the combination of business (committee meetings, technical sessions, chapter reviews) and camaraderie among peers concluded a successful 2009 ICRI Fall Convention.

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Jeffery G. Smith
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Cell: (708) 977-7776 • Fax: (815) 485-9277
Email: jsmith@mapei.com
Website: <http://www.mapei.com>

ICRI TECHNICAL GUIDELINES & PUBLICATIONS

MEMBER COST

No.	Guideline for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion	\$ 16.00
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
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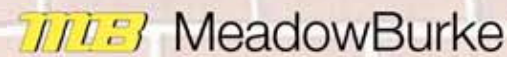
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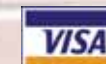
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