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SPONSORS

BECOME AN ICRI-BWC SPONSOR

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Philosophy of Chemical Formulation In Building Cleaning Exteriors

by Thomas H Rudder, President; Hydrochemical Techniques, Inc. "Hydroclean"

Manufacturers of restoration cleaning products as well as restoration contractors have had to deal with much misunderstanding over the design and safety of chemical cleaning products for masonry. Even with the array of sophisticated building cleaning products on the market today, we are unfortunately still dealing with the unsavory reputation that the building cleaning industry earned during the 1950's and 1960's when building exteriors were cleaned using raw hydrofluoric acid and the strong alkalis that were, and still are, used as floor strippers. Many beautiful building exteriors were compromised during that era. The industry has come a long way, but we are still fighting the connotation that chemical cleaning is unsafe for historic substrates. I would like to attempt to review the process of how a product for cleaning stone is designed and formulated. The purpose is not to offer a definitive course in chemistry, but to give the architect, contractor, historical consultant and building owner a general understanding of the thought process that a modern manufacturer uses to develop safe, effective cleaning systems for masonry substrates.



see Cleaning page 3

THE AGGREGATE INSIDE

Philosophy of Chemical Cleaning

A review of the process on how a cleaning product is designed and formulated.

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Safety Column

The one tool employers and employees should be using all the time.

see page 14

Check Out Our Upcoming Events

Local & National Events

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Legal Column

Time is money!

see page 17

ICRI MISSION STATEMENT

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.

ICRI is an organization composed of Engineers, Consultants, Contractors, Manufacturers and other Material Suppliers, Property Managers and Owners all working together for the betterment of the industry and of all involved. Providing an open forum to speak about our work, new technologies and methods, exchange ideas. Creating and following standards to produce the best results for all involved.

PRESIDENT'S MESSAGE



Dear ICRI BWC Members,

Now that summer is coming to a close, it's time to switch gears and get ready for a full schedule of ICRI events, both locally and nationally.

First, an update on events that have occurred since our last posting:

1. Networking/Happy Hour – On April 23, 2015, an informal networking event was held at The Barking Dog in Bethesda, MD. The event drew a fairly small but animated group of members. It was an “interesting” venue and everyone enjoyed themselves;
2. The 2nd Quarter Dinner Meeting occurred on May 7, 2015 and was held at the Arundel Mills Hotel in Hanover, MD. The event was fairly well attended and the venue provided an upscale atmosphere at a reduced rate for members. The featured speaker, Ed Baum with B2 Engineering, provided a unique perspective on different aspects of carbon fiber strengthening with regard to types, applications, price advantages and design specification considerations;
3. The summer social outing on June 13th at the Bowie Baysox game proved to be a disappointing endeavor. While the hearty few that attended witnessed a good extra-inning game (although a loss), they were also treated to Star Wars night with costumed characters for the kids as well as a fireworks display after the game. Unused tickets were replaced with tickets for next season games. These will be offered throughout the rest of the year as door prizes, raffle items and golf prizes;
4. A second networking event was held on June 25th at the Tower Oaks Lodge. The venue was great and the event was better attended than the first but probably a victim of the summer month schedules;
5. The Garrett County Habitat for Humanity took place on August 12-14th in Deep Creek. A dozen or so people that attended performed various construction activities. A follow-up article will be issued.

The next four months offer many local and national events. Keep an eye out for e-mails with details for these events:

1. The 3rd Quarter Dinner meeting is scheduled for September 10, 2015 and will feature Mike Mudrick

of Koster, who will speak on waterproofing and negative side waterproofing specifically. This event will take place at McCormick & Schmicks in Tysons Corner and once again will be offered at a reduced rate for members;

2. Moisture Certification training is being offered in the Baltimore area on September 23-24, 2015. Please see the website and e-mails for details;
3. The 2015 Annual Golf Tournament is scheduled for October 2, 2015. This year the event will be held at the Little Bennett Golf Course in Clarksburg, MD. Chuck Brienza with CPR will be spear heading the event and is available to answer questions you may have. Please note that this is a new venue and that it takes place on a Friday;
4. The ICRI National 2015 Fall Convention will take place October 14-16, 2015 in Fort Worth, Texas. The topic is Modern Trends in The Repair Industry. We hope to see the Baltimore Washington Chapter well represented as usual. Remember to book early!
5. The Outstanding Project Awards/4th Quarter Meeting is scheduled for November 5, 2015. The deadline for entry submission is September 25, 2015;
6. The Fall Technical Seminar will take place on December 3, 2015 and will be held at CPR's office. The topic is “Concrete – A Granular Insight into Its Many Applications and Chemical Formulations”. The seminar will feature several speakers and hands-on demonstrations.

Other non-event issues to be considered are attracting new members to the Board of Directors. This year we will need to fill four openings. Please consider becoming involved at that level, if only for a three-year period. Scholarships are again being offered this year. Look for the application forms on the website and call Bobby Radcliff with any questions.

As you can see, we have a lot on the plate for the remainder of the year in the form of events and offerings. Any participation you can muster will be well received and greatly appreciated. Please continue to take advantage of both the local and national websites as a great source of information and resources.

Hope to see many of you on many occasions over the remainder of the year.

Brian T. McCabe

2015 ICRI-BW Chapter President
Concrete Protection & Restoration, Inc.

PHILOSOPHY OF CHEMICAL FORMULATION IN BUILDING CLEANING EXTERIORS

Cleaning continued from page 1

The first step in designing a cleaning product is to identify the contaminants that we are trying to remove. In large metropolitan areas masonry buildings have some carbon build-up, various salts, silicates and oxides from the incomplete combustion of fossil fuels. The over simplified chemistry of fire is that the exhaust (smoke) is acidic and the ash is alkaline. So when the exhaust from power plants and automobiles is deposited on buildings we have, in addition to the carbon contamination, sulfur oxides from the incomplete combustion of high sulfur fuel oils and nitrogen di-oxides and tri-oxides from the incomplete combustion of gasoline. Reintroduce moisture in the form of humidity or rain and these oxides form sulfuric acid and nitric acid, both of which are extremely detrimental to masonry substrates. Other exterior contaminants include various metals such as magnesium, iron, copper, aluminum and other metals and their salts that are inherent to our industrialized economy.

Most manufacturers attack the contaminants found on brick, granite, sandstone, limestone or marble building exteriors with water-based cleaners that either have an acidic or an alkaline pH. The acid(s) or alkaline (s) in the formulation perform various functions necessary to break the bond of the predetermined soils from the stone. Wetting agents are added to the formula to release the surface tension of water and thus allow the water based cleaner to penetrate into all areas of the contamination. The job of emulsifiers is to hold the contaminants in suspension until the rinse cycle can be applied. Good emulsifiers will also help to insure that the product will rinse well which will assure the removal of all traces of the cleaner/contaminant effluent during the rinse cycle. Buffers are used as a



safety factor and their job is to retard the reaction of the acids or alkalis. Even though some products necessarily use a percentage of acids or alkalis in their formulations that are considered, by themselves, to be very strong, the buffers serve to retard the reaction to the point that the formulation is safe for use on masonry. Thickeners give the formula some body and that helps the product to hold on a vertical surface. Some products have humectants that attract moisture to help the product stay wet until it is time to rinse.

see Cleaning page 4

UPCOMING CHAPTER EVENTS

- | | |
|---------------|---|
| Sept 10, 2015 | ICRI-BWC 3rd Quarter Meeting
Location: McCormick & Schmick's
McLean, VA |
| Oct 2, 2015 | ICRI-BWC Golf Tournament
Location: Little Bennett Golf Course
Clarksburg, MD |
| Nov 5, 2015 | ICRI-BWC Awards Meeting
Location: TBA |
| Dec 3, 2015 | Fall Technical Seminar
Location: TBA |

UPCOMING NATIONAL EVENTS

- | | |
|-------------------|---|
| Sept 23-24, 2015 | ICRISlab Moisture Testing Certification Program
Location: STRUCTURAL facility
Columbia, MD |
| Oct 14-16, 2015 | ICRI 2015 FALL CONVENTION
Location: Hilton Ft. Worth
Ft. Worth, TX |
| Feb 1, 2016 | ICRI Kick-Off Party
Location: In Conjunction with World of Concrete
Las Vegas, NV |
| March 16-18, 2016 | ICRI 2016 SPRING CONVENTION
Location: San Juan, Puerto Rico |
| Nov 9-11, 2016 | ICRI 2016 FALL CONVENTION
Location: The Westin Cleveland
Hotel Downtown
Cleveland, OH |

PHILOSOPHY OF CHEMICAL FORMULATION IN BUILDING CLEANING EXTERIORS

Cleaning continued from page 3

Brick, granite and sandstone can generally be cleaned using a one step, single product process that can remove both the organic (carbon) and inorganic (metals) contaminants from the building. The rinse cycle, which is a separate but equal part of the cleaning system, serves to both flush the product/contaminant effluent from the stone and to neutralize the stone so that upon completion of the rinse process the substrate is left evenly cleaned and with a neutral pH.

Limestone and marble are comprised of the more sensitive calcium carbonate, so these building



substrates usually are cleaned with a two-step process. The first step is to apply an alkaline cleaner that will loosen the organic (carbon) based contaminants. After a dwell time the effluent is rinsed and a mild acidic product is applied and rinsed. The acidic product will perform two functions. The first is to remove the inorganic contaminants (metals) and the second function is to neutralize any residual alkalinity left from the first step. It is important that any building be left with a neutral pH, but as calcium carbonate buildings are basically alkaline to begin with, we do not want to leave any excess alkalinity imbedded in the pores of the stone. Calcium carbonate based substrates are extremely sensitive to harsh cleaning methods, so great care must be taken when choosing acid or alkaline constituents for cleaning products.

Interior contaminants are much less complicated to clean and generally consist only of carbon-based soils such as hand sweat, cigarette smoke and soot from the building's heating system. Generally all that is needed is a mild alkaline cleaner that can emulsify the soils and then a thorough rinse using a rinsing system designed for building interiors.

Some building cleaning projects require the removal of paint. The buildings may be totally coated with paint or there may just be some graffiti. Paint removal requires a different type of chemistry that will be discussed in a future article.

Manufacturers of chemical cleaning products will provide detailed instructions on the proper use of their products. These instructions must be followed exactly. Depending on the individual formulation, the application of the product, the dwell time and the rinse process may vary from manufacturer to manufacturer. So for the best results, the contractor must pay close attention to the outlined procedures. Each product is designed to safely emulsify building contaminants and hold them in suspension until the rinse cycle can be applied. The rinse cycle is just as important as the application of the cleaner. Its function is to flush all traces of the contaminant/cleaner effluent from the stone and to leave the stone neutralized. The rinse cycle must be accomplished in a timely manner and must be performed slowly and deliberately thus assuring a complete rinse of the substrate.

The rinse process must have a certain pressure and volume ratio to accomplish the task of thoroughly rinsing the stone. The hitting force of water is determined by both the volume of water and the pressure at which the water is delivered to the surface of the stone. Any good cleaner is designed to migrate into the stone in order to emulsify the interior soils as well as the surface soils. Therefore the rinse cycle must have the power to flush into the substrate to remove all traces of the contaminate/cleaner effluent. Water hose or other ludicrously low pressure/volume combinations will not adequately rinse a building unless the rinse process goes on and on poring great volumes of water into the building. Most non-friable building substrates can be safely cleaned using a pressure of 1500 to 1800 pounds per square inch (psi) and a volume of 4 to 5 gallons per minute (gpm). The water/pressure rinse combination is delivered through a high-pressure water gun with a 15 to 25 degree fan tip. This pressure/volume will work with brick, granite and most sandstones. It will also safely rinse most calcium carbonate based limestone and marbles. These pressure/volume combinations have been successfully used for many years and will not harm the substrate or any sound mortar. In addition to assuring a complete flush of all traces of the cleaner, these pressure/volume combinations play a vital role in assuring that the building is evenly cleaned and that the rinse effluent is dilute enough to enter the City's sanitary sewer system.

In the case where a substrate is extremely friable, lower pressures may be necessary. It will be the contractor's responsibility to be sure that the building

see Cleaning page 5

PHILOSOPHY OF CHEMICAL FORMULATION IN BUILDING CLEANING EXTERIORS

Cleaning continued from page 4

has been thoroughly rinsed. The contractor can test for any residual acidity or alkalinity remaining in the building's substrate by using pH paper, which should be on every building cleaning jobsite. The objective is to leave the building's surface as close to a neutral pH as possible.

A properly cleaned building will display a symmetry of evenly cleaned stone that will showcase the natural color and hue of the masonry. The cleaning will have been accomplished without altering the surface or the porosity of the stone. Once completed, it will accurately represent the original architect's aesthetic design and intent.

Remember that cleaning a building requires the adoption of a system that includes the choice of the right cleaning product, the right pressure/volume rinse combination and the right contractor who will perform the work. Compromising any of these three elements could compromise the entire cleaning project. The best safety net is for an owner/architect/building manager to insist on using experienced product manufacturers and experienced contractors both of whom should have a long demonstrated history of cleaning historic buildings.



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Adam Hibshman
General Manager
ahibshman@valcourt.net
301-262-7880 x104

VBS Valcourt Building Services

THE BALTIMORE/WASHINGTON, DC CHAPTER OF ICRI

September 10, 2015

McCormick & Schmick's

8484 Westpark Drive
McLean, VA 22102
703-848-8000



INTERNATIONAL
CONCRETE REPAIR
INSTITUTE

BALTIMORE WASHINGTON CHAPTER



Members by 09-03-15: \$35
MUST BE A CURRENT MEMBER OF THE BW CHAPTER

Non-Members & Members After 09-03-15: \$60

4:00 pm Board Meeting
5:30 pm Social Hour
6:30 pm Dinner & Presentation

***"Waterproofing with an
Emphasis on Negative Side
Approaches"***

OUR FEATURED SPEAKER

Michael Mudrick
Koster American Corporation

Michael Mudrick, National Sales Manager for Waterproofing Products for KOSTER American Corp., has over 20 years of experience in the industry.

Ranging from flooring and waterproofing, to injection resins, and other construction chemicals, Michael has experience and knowledge in the development, production and sale of these specialized systems.

Michael received his BS in Chemistry from Temple University and began his career as a Chemist for Thoro System Products, Sto Corp. and Textured Coatings of America.

He later worked for Aquafin, Inc., as Product and Sales Manager before transitioning to his current position at KOSTER American Corporation.



OUR FEATURED PRESENTATION

This presentation will focus on the waterproofing of the 3 subterranean levels of the Empire State Building.

This included curtain wall grouting, negative side waterproofing and concrete and masonry repair.



REGISTRATION DEADLINE IS September 3, 2015 NO-SHOWS WILL BE BILLED

Please email (sbentz@desman.com) or print this page and fax to **Shannon Bentz**, Secretary, at 703-893-4067 no later than Sept 3, 2015. Checks to ICRI BWC may be turned in at the meeting or mailed with your form to:

Shannon Bentz, Secretary
ICRI BW Chapter
c/o Desman Associates
8000 Westpark Drive., Suite 610
McLean, VA 22102

**You may also register and
pay online at**

www.ICRIBWChapter.org

Name:	_____
Company:	_____
Telephone:	_____
Email:	_____
Number of Attendees:	_____ Payment: <input type="checkbox"/> Enclosed <input type="checkbox"/> Online (Please include receipt)
Attendee Names:	_____ _____
Attendee's Company:	_____

ICRI BWC OUTSTANDING PROJECT AWARDS



INTERNATIONAL
CONCRETE REPAIR
INSTITUTE

BALTIMORE WASHINGTON CHAPTER

2015 ICRI BALTIMORE WASHINGTON CHAPTER OUTSTANDING REPAIR PROJECT AWARDS

Purpose: Recognition for Exceptional and Innovative Repair Projects in the Baltimore Washington D.C. Area

Criteria and Eligibility

1. Repair or restoration must be the major component of the overall project, at least 25% of the project costs.
2. The repair/restoration portion of the project must be performed, designed or supplied by an ICRI Baltimore Washington Chapter member, in good standing.
3. Project submitted for consideration must be completed between June 1st the year prior to the Award (2014) and by May 31st of the year of the Award (2015). A single phase of a long term project may be submitted provided it meets the above completion timeline.
4. Maximum of one award per individual member or member company with multiple submittals.

Submittal Process

1. Submittal information will be available to BW Chapter members by **August 2015**.
2. Submittals shall be in the form of six (6) 3-ring binders containing the required submittal information. Submit six (6) color copies of the submittals for distribution to the Award Judges.
3. Project submittals shall be addressed and forwarded to:

ICRI Baltimore Washington Chapter
Outstanding Repair Project Awards Program
c/o Mr. Justin P. Long, E.I.T
Smislova, Kehenmui & Associates, P.A.
12505 Park Potomac Avenue, Suite 200
Potomac, MD 20854

Due Date: Friday, September 25, 2015 no later than 4:00 PM.

4. Entrants must have permission from project owner to submit project for the award.
5. Project submittals will not be returned and may be used by the BW Chapter for display at chapter meetings.

Required Submittal Information

Part I:

1. Only one (1) copy of **Part I** information is required per one (1) group of six submittals.
2. The Part I information should have, on a single sheet of paper:
 - Name of the Project
 - Name of the Repair Contractor

ICRI BWC OUTSTANDING PROJECT AWARDS

- Owner
- Architect/Engineer
- Material Supplier(s)
- General Contractor (if applicable)

3. The Part I information should be sealed in a separate envelope with the **Project Name** typed across the front of the envelope.

Part II:

1. One (1) copy of **Part II** information is required with each submittal (i.e. six (6) copies of Part II, one with each binder):
 - The Name of the Project.
 - City and state where the project is located.
 - Overall repair project contract price.
 - Overall repair project duration.
 - A written summary of the repair not exceeding 2000 words.
 - No more than 15 photographs (8 1/2" x 11" maximum size) showing before, during and after photos of repairs and scope of repairs.

NOTE: All submittal information **cannot** contain any company or product information, company logos or any other identifying information except for as required in Part I to ensure judges have no knowledge of companies or products involved. *Part I envelopes will be opened after submittals are scored.*

Submittal Judging

Three to five judges, selected by the ICRI Baltimore Washington Chapter Awards Committee and approved by the ICRI Baltimore Washington Chapter Board of Directors, will review and judge each project submittal. Judges will select the highest scoring project submittal for the award based on pre-established rating criteria set by the BW Chapter Awards Committee. Judges will be ICRI members of record outside of the Baltimore Washington D.C. Chapter consisting of a minimum of one repair contractor, one material supplier and one engineer/architect. Submittals missing any of the required submittal data will be penalized during scoring of the projects. Judges will not contact entrants for any missing information.

Award and Project Presentation

1. A \$500 ICRI National Convention Scholarship will be presented to the entrant that has the highest project award submittal score and will be presented the ICRI Baltimore Washington Chapter Repair Project of the Year Award. Outstanding Project Awards will also be presented to the 2nd and 3rd highest scoring entrants.
2. The winning project's entry fee will be paid by the BW Chapter **if** the submitter chooses to submit the project for the **National ICRI Outstanding Concrete Repair Project Award Program** for the following year.
3. The project award winners will be contacted before October 23, 2015 by the Awards Committee.
4. Project of the year will be presented, in a 30 minute presentation, by the entrant during the **2015 ICRI BW Chapter's Annual Awards Banquet on November 5th**. Second and Third place projects are to be presented, in 15-minute presentations each, by the entrants during the same meeting of the BW Chapter. All other submitted projects will receive recognition at the fall meeting by the awards committee.

THE 2015 ICRI BALTIMORE WASHINGTON 24TH ANNUAL CHAPTER GOLF TOURNAMENT

Join us on **Friday, October 2, 2015** at our **NEW** location **Little Bennett Golf Course**, 25900 Prescott Road, Clarksburg, MD 20871 301-253-1515.

♦ **Registration opens at 7:15am**

♦ **Scramble Format Tournament begins at 8:00 am** with a Shotgun Start.

♦ **Lunch and Awards Program at 1:30pm.**

Benefiting the ICRI-BWC Scholarship Fund

Over \$10,000 in
cash & prizes

\$500 per foursome or \$140 per single golfer registered before September 18, 2015.

\$140 for all golfers after September 18, 2015.

Space is limited and the final deadline for registration is September 25, 2015.

PLEASE COPY THIS FORM AS NEEDED*RETURN ENTIRE FORM

Telephone: _____ Email: _____

Player Name

Company Firm

Shirt Size/Gender

Please make checks payable to ICRI-BW Chapter and mail with entry form to:

Concrete Protection & Restoration, Inc. • c/o Chuck Brienza • 2811 Lord Baltimore Drive. • Baltimore, MD • 21244
410-298-2669 or cbrienza@concretecpr.com

SPONSORSHIP OPPORTUNITIES

CHECK THE LEVEL IN WHICH YOU'RE INTERESTED * Sponsorships to be committed & **PAID BY** September 18, 2015.
Additional Sponsorships available for prizes. If anyone wants to contribute Money or Prizes please contact Chuck Brienza.

_____ \$1,700 Luncheon Sponsor

Your sponsorship includes one complimentary foursome, your company name on hole signage, an appreciation gift and recognition in the Aggregate Newsletter and at our Awards Luncheon.

_____ \$1,200 Beverage Sponsor

Your sponsorship includes one complimentary twosome, a sign on the beverage cart and recognition in the Aggregate Newsletter and at our Awards Luncheon.

_____ \$300 Breakfast Sponsor

Your sponsorship includes a sign in the buffet area and recognition in the Aggregate Newsletter and at our Awards Luncheon

_____ \$300 Range Ball Sponsor

Your sponsorship includes a sign in the range ball area and recognition in the Aggregate Newsletter and at our Awards Luncheon.

_____ \$250 Competition Sponsor

Your sponsorship includes Prize for winners & recognition ...

_____ Longest Drive - Men / Women
(CIRCLE MEN OR WOMEN)

_____ Closest to Pin - Men / Women
(CIRCLE MEN OR WOMEN)

_____ Straightest Drive

_____ \$125 Hole Sponsor (enclose business card)

Your sponsorship includes recognition in the Aggregate Newsletter and at our Awards Luncheon.

Please indicate your sponsorship choices above and fill out the information below.

Company: _____

Telephone: _____ Fax: _____

Email: _____

Payment: _____ Enclosed _____ Online (include copy of receipt)

MAY MEETING WRITE-UP

2nd Quarter Membership Meeting Focuses on Fiber Reinforced Polymers

by Adam Hibshman, Vice President



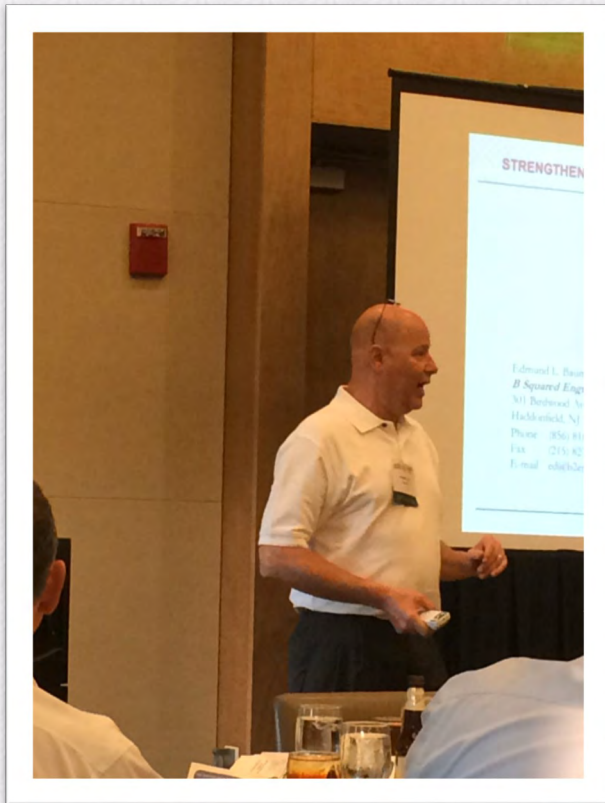
On May 7, 2015, the ICRI-BW Chapter held our dinner meeting at a new location. Thanks to Brian Baker (Facilities Committee Chair) for making the arrangements for the chapter. The Hotel @ Arundel Mills Mall was an awesome setting for the meeting and will hopefully be home to more events in the future.

Tom Ouska (Programs Committee Chair) arranged for our speaker of the night, Ed Baum with B2 (Squared) Engineering. Ed gave a very technical and informational presentation on Fiber Reinforced Polymers. He focused mostly on Carbon FRP, but discussed other fiber options, as well as plate systems, and multidirectional wrap. All of the options had different applications with corresponding strengths and weaknesses, and Ed did a great job describing how to design each one.

The social hour was again a hit, with lots of networking and lively conversation. See the calendar of events for more info on upcoming meetings and other events with your chapter.

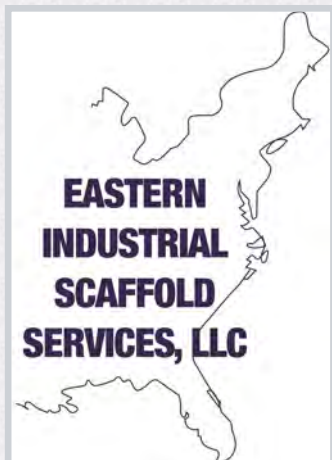


MAY MEETING WRITE-UP



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SAFETY COLUMN

The One Tool You & Your Employees Ought to Be Using All the Time

By David Caple, COHC, CEAS, Pinnacle Safety Network, LLC

Answer these questions:

- ◆ What type of safety equipment do you need when working near or over water?
- ◆ What is the maximum height of an unsecured frame scaffold that measures 4'x8'?

How many of your employees would be able to answer those questions without hesitation? For those of you who answered "not many" or "none", I have some **Good News**. The answers to those questions and many more can be found in the *Technical Guideline 120 - Guidelines and Recommendations for Safety in the Concrete Industry*. Since 2009, ICRI has published guidelines specific to our industry in order to assist member contractors with OSHA compliance and best practices within our industry.

More Good News: If you are a registered member and access the ICRI website by logging in, you can find this publication and download a **Free Copy**. Here is how to do it: Once you are logged in, click on the "Publications" tab on the top pull down menu. From there, click on "Free Guidelines (members only)" on the left hand side of the screen. It is available in English and Spanish.

This valuable resource was designed with the field operations manager in mind. It covers topics like Personal Protective Equipment, Scaffolds, Trenches, Confined Spaces and Cranes to list a few. A hard copy is available for \$25.00.

Our industry presents many hazardous environments for our employees and ignorance of the law is no excuse. If you have safety questions, Technical Guidelines 120 has answers. Download a copy today. *(By the way, the answers to the questions may be found on page 41 and page 93.)*

BUILDING TRUST



Randall Kratz

District Manager
MD, DC, & N. VA

410-336-3757

kratz.randall@us.sika.com

Concrete Repair & Protection ▲ Structural Strengthening
▲ Joint Sealing ▲ Grouting ▲ Flooring ▲ Waterproofing
▲ Air Barriers ▲ Liquid Applied Roofing



TECHNICAL GUIDELINES

Prepared by the International Concrete Repair Institute

August 2009



Guideline No. 120.1–2009

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**Guidelines and Recommendations
for Safety in the Concrete
Repair Industry**

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703.378.2500 - contacts@freyssinetusa.com



TIME IS MONEY

by Kenneth K. Sorteberg, Esquire

The goal on any project is to finish on time, or early if possible. Timely completion makes everyone happy – from the Owner on down through the general contractor and the subcontractors. Why? Because time is money.

Delays to a project can be costly to all parties. An Owner may be unable to start using its facility when planned, leading to loss of revenue, extended financing costs, and extended project management costs. A general contractor and its subcontractors will incur extended general conditions costs, extended equipment rental costs and extended home office overhead costs.

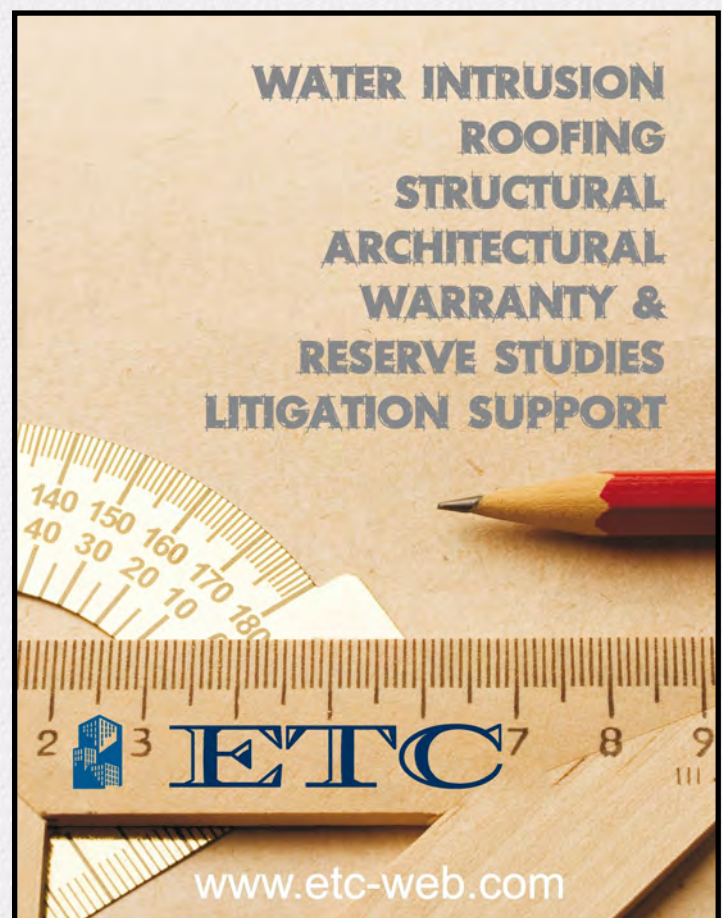
Who pays for these delay costs? Well, it depends on two things: Who/what is responsible for causing the delay? And what does your contract say? For example, if weather causes a delay, the general rule is that no one is at fault and so no one gets paid for their delay costs.

If you have caused the delay, you certainly will not get paid for your delay costs. Chances are that your contract will require you to pay the delay costs incurred by others. This potential liability can be limited during contract negotiations. You can state in the contract that you will not be liable for delay damages or liquidated damages incurred by any others. In the alternative, you can state that your liability for delay or liquidated damages is limited to, say, \$5,000.

If the Owner and/or general contractor have caused a delay to your work, you should be able to get paid for your delay costs, *unless your contract contains a "no-damages-for-delay clause."* Such a clause quite simply bars recovery of delay costs. This potential limitation can be addressed during contract negotiations. You can state in the contract that if you are delayed through no fault of your own, you will be entitled both to a time extension and to recovery of your delay costs.

Please feel free to contact Ken Sorteberg at sorteberg@constructionlaw.com with any questions or suggestions for future Legal Columns. Mr. Sorteberg is a civil engineer and an attorney (licensed in MD and DC) who focuses his practice on construction law.

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INTERNATIONAL
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INSTITUTE

Virginia Chapter



2015 Fall Symposium & Golf Outing Evaluation, Specifications, and Guidelines

➤ **WHEN:** Thursday, September 24th, 2015

➤ **WHERE:** Colonial Heritage Golf Club
6500 Arthur Hills Drive,
Williamsburg, VA 23188

EARN
3 CEC hrs.

➤ **TIME:**

- 7:30 to 8:30am / Continental Breakfast & Exhibits
- 8:30 to 9:10am / **ICRI Guidelines Overview & Importance**
 - Scott Harrison (Construction Insight)
- 9:10 to 9:50am / **Life Cycle, Performance, and Cost**
Owners Guide to Inspection & Maintenance For Concrete & Masonry Buildings
 - Mr. Ali Akbar Sohanghpurwala (Concorr. Inc.)
- 9:50 to 10:20am / **ICRI Guide Specifications**
 - Mr. Karl Rickert (Rickert Engineering)
- 10:20 to 10:40am / Break & Exhibits
- 10:40 to 11:20am / **ACI 562 Evaluation, Repair, & Rehabilitation**
ACI 563 Specifications for Repair
 - Mr. Rick Edelson (Edelson Consulting Group)
- 11:20 to 12:00am **ICRI Certification Programs**
 - Monica Rourke (Mapei)
- 12:00 to 12:45pm / LUNCH & EXHIBITS
- 12:45 to 5:30pm / GOLF OUTING

ICRI Virginia Chapter Golf Tournament, Colonial Heritage Golf Club:

This artfully crafted Arthur Hills masterpiece emulates the classic beauty and refinement of the natural terrain and landscape of its southern Virginia surroundings. Meandering through 175 acres of densely wooded grounds, the 6920-yard, par 72-championship golf course offers five sets of tees and immaculate playing conditions creating a truly distinctive experience with every round. Strategically placed bunkers, undulating fairways and carefully planned water features create a challenging yet playable course for all level of golfing enthusiasts from novice to expert.

NEWS FROM NEIGHBORING CHAPTERS



**INTERNATIONAL
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INSTITUTE**

Virginia Chapter



2015 Fall Symposium

2015 ICRI Fall Symposium Registration

- Thursday, September 24, 2015
- Colonial Heritage Golf Club
6500 Arthur Hills Drive, Williamsburg, VA 23188

**EARN
3 CEC Hrs**

Advance Conference, Golf and Tabletop Registration Deadline is Sept. 17, 2015

Company: _____
Name: _____
Mailing Address: _____
City State Zip: _____
E-mail: Phone: _____

Names of Golfer: 1 _____
2 _____
3 _____
4 _____

CHAPTER MEMBER REGISTRATION FEES:

Circle your choice(s) and enclose a check made out to "ICRI Virginia Chapter:
(Symposium Registration includes continental breakfast, all breaks and lunch)

❖ **Symposium Only for ICRI Members and Guests: \$75.00**

❖ **Combination Registration for Symposium and Golf: \$180.00**

The Golf Tournament is at the Colonial Heritage Golf Course. Shotgun start Thursday afternoon, Sept. 24, 2015 at 12:30 pm. Registration includes 1/2 cart fee, green fees and four drink tickets.

❖ **Golf Registration for ICRI Members and Guests: \$125** (per player)

SPONSORSHIP & DISPLAY OPPORTUNITIES:

- ❖ **Golf Tournament Hole Sponsorship: \$100 per hole**
- ❖ **Table Top Display at Symposium: \$100 per hole**
- ❖ **Ads in Symposium Reference Book:**
 - ❖ 1/4 Page= \$60; 1/2 page= \$100; Full Page \$175 Back Cover=\$250; Business Card Ad= \$25

TOTAL AMOUNT ENCLOSED: \$

Mail Registration to:

Daniel Watkins Watkins@feapc.com work 730.591.4855 / fax 703.591.4857
Facility Engineering Associates
12701 Fair Lakes Circle Suite 101, Fairfax Va. 22033

HELP US GET OUR REGISTRATION COUNT DONE EARLY.

FAX A COPY OF THIS REGISTRATION TO Dan Watkins (703-591-4857) BEFORE YOU MAIL IT IN WITH A
CHECK OR **PAY IT ON PAYPAL FROM OUR WEBSITE**. <http://icrivirginia.org/>
Golfers signing up individually will be placed into a foursome.