



4TH QUARTER  
2018

# THE AGGREGATE

THE NEWSLETTER OF THE BALTIMORE-WASHINGTON DC CHAPTER OF ICRI

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- CHAPTER AWARDS DINNER
- TOP GOLF OUTING
- GOLF TOURNAMENT RESULTS

## MESSAGE FROM OUR PRESIDENT BOBBY RADCLIFF

ENGINEERING & TECHNICAL CONSULTANTS, INC.



Greetings Chapter Members! Fall is finally upon us with temperatures beginning to lower. Make sure to consider needed cold-weather protection in the coming months. I would be glad to see no more rain for a while or at least a full week with no precipitation. Hopefully, this record-breaking year of inclement weather does not transition into significant snow accumulation. For at least a few weeks, it is that time of year again where I am sure we are all incredibly busy.

We still have some exciting events (both local and National) scheduled for this year. Below is a summary of the occasions. Please visit the chapter website [www.icribwchapter.org](http://www.icribwchapter.org) for more information such as event dates, details, registrations and schedules.

• The 27th Annual Golf Outing at The Timbers at Troy was a great success. A special thanks to Dave Bickel as well as the rest of the volunteers (CP&R team). Also, congratulations to Ken Kosteva for winning the forty-foot putting contest. I was lucky if I made a four-foot put during the round of golf.

• Our fourth quarter awards dinner banquet will be held on November 1, 2018 at The Hotel at The University of Maryland in College Park, Maryland. The November meeting will highlight this year's chapter outstanding repair project awards in which the top three (3) awardees will be giving a presentation on their projects. I always look forward to the dinner banquet as it provides an opportunity to share project challenges, successes and accomplishments with your fellow colleagues.

• Ballots for the 2018 Board of Directors have been emailed to the Chapter membership. If possible, please complete the ballot forms and email them to either Shannon Bentz or bring to the dinner banquet on November 1st. The new Board of Directors will be announced at the conclusion of the meeting.

• This year, we received a total of five (5) scholarship applicants. Although I was hoping for more, I am glad that our Chapter has the opportunity to provide some financial assistance to our youth. Our Education & Scholarship Committee along with other volunteers have been working hard this year to get involved with both University of Maryland as well as Catholic University. One of our Chapter goals is to develop a connection with local universities in an effort to increase student membership and provide more exposure to the concrete repair industry.

• The Fall Convention is around the corner and will be held in Omaha Nebraska on November 7 - 9, 2018 at the Omaha Marriott Downtown at the Capital District. The theme will be on "resiliency above and beyond concrete restoration". Registration and the convention itinerary is available on the ICRI website [www.icri.org](http://www.icri.org). If you have not attended a National ICRI convention, it is a great way to network with your peers in the industry, get involved on the National level and increase your knowledge through their informative technical seminars.

• The Annual Fall Seminar will take place on December 6, 2018 at Concrete Protection & Restoration's office. This year, the theme is on alternative demolition practices to reduce the levels of vibration, noise, dust, etc. in concrete repair projects. Tom Ouska is diligently coordinating with the presenters to make sure this event is well informative and a success.

I want to take this opportunity to thank the 2018 Board of Directors, Committee Members and all of the volunteers for giving their time this year to continuously improve our Chapter and make my presidency a little less stressful. We set a high goal this year of recapturing the Chapter of the Year Award.

As always, please check our Chapter website for the calendar of events for this year as well as Chapter updates. Please reach out to myself or any of the other officers or Board members with any questions and/or concerns. I hope to see everyone at our November awards banquet.

*Bobby*

## CHAPTER CALENDAR

Chapter Awards Dinner  
& Board Elections  
**November 1, 2018**

Social Outing at  
Top Golf - Alexandria  
**November 15, 2018**

2018 Technical Seminar  
**December 6, 2018**

**ALTERNATIVE CONCRETE  
DEMOLITION/HYDRO  
DEMOLITION  
AT:  
Concrete Protection &  
Restoration, Inc.  
2811 Lord Baltimore Drive  
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*Details & Registration  
coming soon!*

**VISIT US AT:  
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## EXTENSION CORDS

*By David Caple, COHC, CEAS,  
Construction Safety and Health Specialist*

After the Silica Standard was put in to effective (June 2016) I have seen more dustless equipment showing up on job sites. This equipment is quite expensive as I am sure you are aware of. Recently, I was talking to a crew who in a passing conversation mentioned they were having troubles with some of the equipment. A quick investigation led me to the conclusion that 400 feet of extension cord was too much for a piece of equipment rated at ~12 amps.

I have developed, for my clients, a chart to use as guidance for selecting the proper cord gauge and maximum use length. Consider the following:

1. Equipment up to ~13amps can run on 12gauge cords up to 100 feet. Longer runs may require 10-gauge cords. Equipment that requires 15amps should be run on 10-gauge cords beyond 50 feet.
2. If these limitations are not feasible, consider having an electrician temporary hard-wire electric service to a work area. This option makes the most sense to me especially if you are running a dustless vacuum and 7-inch grinder for example. In that scenario you may require up to 30-amp service. In most cases house electric is only 15-amp service.
3. In some cases, a boost box may be the appropriate measure to gain the power required to run equipment.
4. If the work area is open with plenty of fresh airflow generators may be a simple solution.

The bottom line is equipment is expensive. Running equipment without the proper electric service will eventually burn the equipment up. When equipment is run essentially "hot" it can create a fire hazard resulting in burns, property damage or even electric shock. Develop a company policy and train employees to properly match equipment to extension cord sets. Much of this information is available on the internet or consult an electrician.



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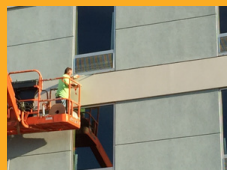
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## NEW MARYLAND LAW: GC LIABLE FOR UNPAID SUB WAGES

*By Kenneth K. Sorteberg, Esquire  
Huddles Jones Sorteberg & Dachille, PC*

On October 1, 2018, a new law went into effect in Maryland. This law holds the general contractor liable for unpaid wages of its subcontractors at any tier. In other words, unpaid workers of a lower tiered subcontractor can sue the general contractor to recover those wages. Under this law, general contractors may also become liable for triple damages plus attorneys' fees.

The unpaid workers have three years to bring a lawsuit against the general contractor. By then, the general contractor has very likely paid all of its own subcontractors in full and must come out-of-pocket to cover the unpaid wages.

In order to address this risk, a general contractor should update its own subcontract form. The subcontract should contain a strong indemnification clause whereby the subcontractor specifically agrees to indemnify and defend the general contractor in the event employees of that subcontractor, or of any lower tier subcontractor, are not paid wages due to them. Each subcontractor should have a similar indemnification clause flowing down to its own lower tier subcontractors.

In addition, a general contractor should become more diligent in ensuring that all workers on a project are being paid. For example, superintendents can inquire among the workforce as to whether the workers are being paid, and weekly superintendent meetings can keep the general contractor up to date on wage payment status.

General contractors can also protect themselves by requiring the subcontractors to be bonded for this specific risk. Retention should not be released to subcontractors until all lower tiered subcontractors have provided affidavits and indemnifications to the general contractor that all wages on the project have been paid. On public projects, certified payrolls should be obtained and carefully reviewed. For union subcontractors, the union should be contacted to confirm payment of wages, dues, etc.

**Kenneth K. Sorteberg, Esquire**

Please feel free to contact Ken Sorteberg at [sorteberg@constructionlaw.com](mailto: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.



# ICRI BALTIMORE WASHINGTON 3rd QUARTER DINNER MEETING

**Maggiano's - Bethesda, MD**

by Brian Radigan | Tremco



For the ICRI BWC 3rd Quarter Dinner Meeting, the event was hosted at, Maggiano's restaurant in Bethesda, MD. A very special thanks to Rich Barrett (Lymtal & Facilities Committee Chair) who coordinated and made the arrangements for the chapter's prestigious awards dinner. Maggiano's proved to be great location for the Board of Director's meeting and the 3rd Quarter Dinner and is set to host future ICRI events. The evening began with a wonderful social hour which provided a great opportunity for all members to catch up with old friends, network with new contacts and chat about the events of the summer. Before the program started, the attendees had also enjoyed a family-portion sized dinner full of delicious entrees and appetizers.

Current President, Bobby Radcliff, provided a recap of recent ICRI events, including the upcoming deadline for submissions on the Outstanding Repair Project Award. Bobby requested a call for technical articles for inclusion into the Aggregate and presented Past-President Shannon Bentz with an award for her efforts with the Baltimore Washington local chapter.

Bobby introduced the night's speaker, Kevin Goudarzi, PE from KGS Construction Services, who presented on a Seismic Retrofitting project he was previously involved with. The presentation discussed the seismic solution for the retrofitting of a 28-story hotel located in Tehran, Iran in 2006. The hotel had been previously built during the 1970s by a German engineering company from Stuttgart. The building is constructed of concrete and has continuous walls from the 2nd to the 28th floors. These walls partition the rooms and are made of reinforced concrete. He discussed the project's challenges and solutions to handle the massive repair requirements. Kevin's presentation displayed an interesting project profile of a job overcoming the obstacles that both the local and international communities can appreciate.



## **The Baltimore/Washington D.C. Chapter of ICRI is seeking technical articles for publication in its quarterly newsletter, The Aggregate.**

The Aggregate is the official newsletter for The Baltimore/ Washington, DC Chapter of The International Concrete Repair Institute and is published quarterly and sent to all current sustaining members of the chapter. In addition to chapter news, highlights, and possible advertising opportunities, The Aggregate includes informative technical articles on a variety of issues related to the concrete repair industry.

The ICRI BWC chapter is looking for individuals interested in contributing a technical article(s) related to industry practice or instruction, technology and design, professional concepts/issues, project profiles or any other topics relevant to ICRI members. Articles will be presented as the main article in an upcoming edition of The Aggregate. Articles do not necessarily need to be authored by an ICRI member, so please forward this request to any individual outside of the organization who may be interested in submitting. This could be a great opportunity for younger professionals to get published or for someone to share an informative or interesting lessons learned article. Please visit the Aggregate archives on the ICRI-BWC website to see the types of articles that have been published previously.

**Please contact Mike Payne ([mike.payne@feapc.com](mailto:mike.payne@feapc.com)) with the Technical Publications Committee for more details.**



# ICRI Baltimore Washington Chapter 4th Quarter Dinner Meeting



**Thursday, November 1, 2018**

THE HOTEL AT THE UNIVERSITY OF MARYLAND  
7777 BALTIMORE AVE.  
COLLEGE PARK, MD 20740

**SCHEDULE:**

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

**REGISTRATION:**

Member Rate: \$50  
Non-Member Rate: \$60  
All after 10/26/18: \$60

**REGISTRATION DEADLINE IS OCTOBER 26, 2018**

Company: \_\_\_\_\_

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

Number of Attendees: \_\_\_\_\_ Attendee Names: \_\_\_\_\_

\_\_\_\_\_

## 2018 Awards Dinner and Board Elections

Join us for our last dinner meeting of the year where we will present our annual awards for outstanding projects. Competing projects are judged on a number of criteria including, but not limited to: overall presentation of the project, innovative or difficult approach to making repairs, specialized materials or equipment required, difficulties during construction related to site issues or owner issues, tight construction deadlines or compressed schedules and that the project's success can be attributed to utilization of ICRI techniques and guidelines in the repairs.

*Elections for our 2019 Board of Directors  
will also be held at this meeting.*



Scan and email or fax this completed form to Chapter Secretary, Brian Radigan by 9/7/15. Checks may be mailed with your form or you can bring them with you to the meeting.

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## RESTORING A STRUCTURE'S WATERTIGHT INTEGRITY

By:

Brian Baker, Principal  
Preservation & Protection Systems, Inc.

Structural degradation, can many times be related to a breach in the waterproofing system or building envelope. A typical restoration specification calls for demo, structural repair, and some type of re-waterproofing. However, waterproofing product selection often seems to be made in a vacuum. And many times is relegated to simply providing a replacement material that is compatible with the original waterproofing product or system.

While it is essential to find compatible products, it is only part of sound, long term solution. The terminations and transitions to other building components are typically the culprits in these breaches. In fact, I would venture to say that almost every waterproofing product works. They have all been tested and proven out through

countless ASTM tests. Unfortunately, those ASTM tests rarely include any testing for terminations or transitions to other building envelope components, which is where many of these leaks occur.

So where do you go for product selection? Again, most waterproofing products work, as was already touched on. So let's start with compatibility. It is important to identify the chemical make-up of the existing waterproofing product to minimize substrate adhesion issues caused by residue and/or contamination. It also could impact how clean the substrate must actually be prior to the installation of a new waterproofing membrane. For example, if the existing waterproofing membrane is hot rubberized asphalt, removing any loose membrane may be all that is required prior to installing new HRA. However, if it is determined that the existing membrane is coal tar based, full removal may be required.

It is also equally as important to identify the chemical make-up of the adjacent building envelope components that the waterproofing must tie-in to. Once that is determined, then an accurate product selection can occur, keeping in mind that compatibility does not necessarily mean adhesion. Some products can be completely compatible, meaning they will not chemically attack each other. However, that does not mean that one will stick to the other or vice versa. For example, many products have a difficult time sticking to silicone chemistry, but do not have an adverse chemical reaction when the two come into contact. Therefore, it is important to verify



Waterproofing residue  
on existing deck

both compatibility and adhesion with the material manufacturer, prior to material selection.



Adhesion test set up on substrate

It is also important to understand the substrate's role in effectively waterproofing a restoration project. Full removal of the existing waterproofing is sometimes necessary to ensure the effectiveness of the new waterproofing system. Once the waterproofing is removed, a true assessment of the existing substrate condition can take place. Most manufacturers call for a clean, dry, sound substrate. While these are important factors, surface profile is often overlooked. In many cases, surface conditions can vary on the same project, creating the importance for uniform substrate





Adhesion test results

prep. It is also important to perform adhesion tests as concrete mix designs can contain different admixtures and curing compounds. These adhesion tests are often times required by membrane manufacturers for warranty purposes.

If the original waterproofing failed, it could have been caused by a surface profile that was not appropriate for the product technology that was selected for the project. Matching the surface profile with the appropriate waterproofing product is critical. For example, an asphaltic based peel and stick membrane requires a much smoother substrate than a fluid applied membrane. If the surface is too smooth, shot blasting is a method that is often used to create the

appropriate surface profile.

What about areas that need partial or full depth repair? Many membranes require a certain concrete or patching cure time in order to achieve acceptable adhesion. This cure time ranges widely depending on the patching product that is selected. If a structural lightweight concrete is used, the cure time could be as much as 30-60 days. If a fast set patching product is used, it could be as little as 2-4 days. In many cases, the waterproofing product manufacturer will defer to the patching manufacturer to provide guidance as to the time needed for waterproofing membrane or coating to be applied.

Restoring the waterproofing integrity of a structure is not a simple process. Mainly because it is often difficult to fully understand the full scope of what is needed until full demo has occurred. It becomes critical to understand that the specification may change during this process to accommodate actual existing conditions. Good collaboration and communication between the specifier, installing contractor, and materials manufacturers is critical in ensuring the project remains watertight for many years to come.

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Preparing the surface to receive new membrane



# 2018 ICRI Golf Tournament

## October 4, 2018

by Dave Bickel

The 27th Annual ICRI-BW Chapter Golf Tournament was held on Thursday, October 4th at The Timbers of Troy in Elkridge, MD. We had a great turnout of 100 golfers who participated in the tournament this year. There was also a total of 34 companies that supported the event through sponsorships. The Chapter is thankful for everyone's support.



The weather for the day was beautiful 85 degrees, we had an overcast morning, but by lunch time the clouds opened up and we had beautiful sunshine for the rest of the day! The morning started off with a continental breakfast for all; liquid refreshments, cigars and snacks were served on the course; followed by a buffet lunch and the awards presentation ended the day.

The golf outing is a major fundraiser with the proceeds funding the scholarship program. We couldn't have made this the success that it was without the dedicated and hardworking volunteers: Caitlin Corbitt, Patrick O'Malley, Nancy Smith, Kevin Kline, and David Bickel.

The big winners for this year's tournament include:

### Competition Winners:

Longest Drive – Women	Sandy Eastwood
Closest to the Pin – Women	Sandy Eastwood
Longest Drive – Men	Adam Hibshman
Closest to the Pin – Men	Rob Pusheck
Putting Contest	Ken Kosteva



Winning Golf Team: Taylor Crampton, Mark Parks, Jonathan Smith, Brian Greenbaum

### Team Scores:

1st Place – CP&R – Brian Greenbaum, Taylor Crampton, Jonathan Smith & Mark Parks

2nd Place – BASF - Patrick McGinty, Garth Vair, Rick Hart & Greg Viar

3rd Place – PPSI - Brian Baker, Bryan Monahan, Lance Conley & Kevin Leasure



The Chapter also wants to recognize the following tournament sponsors for their support:

**Luncheon:** Concrete Protection & Restoration, Inc. (CP&R)  
**Beverage Cart:** Restoration East, LLC (REI)  
**Breakfast:** Tools & Accessories (T&A)

#### Competition Sponsors

**Hole in One:** Preservation & Protection Systems, Inc. (PPSI)  
**Putting Contest:** Scaffold Resource, LLC  
**Range Ball:** Choice Restoration  
**Longest Drive - Men:** Morabito Associates  
**Longest Drive - Women:** U.S. Concrete Products (USCP)  
**Closest to Pin - Men:** Evonik Industries  
**Closest to Pin - Women:** New Barbet Corporation

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US Concrete Products (USCP)  
Valcourt Building Services  
Vector Corrosion Technologies

Once again, thank you all for making our tournament a huge success. Enough cannot be said for all the time and effort our volunteers put forth.

We look forward to seeing everyone on the golf course next year!



2nd place golfers: Patrick McGinty, Rick Hart , and the Viar brothers Garth & Greg



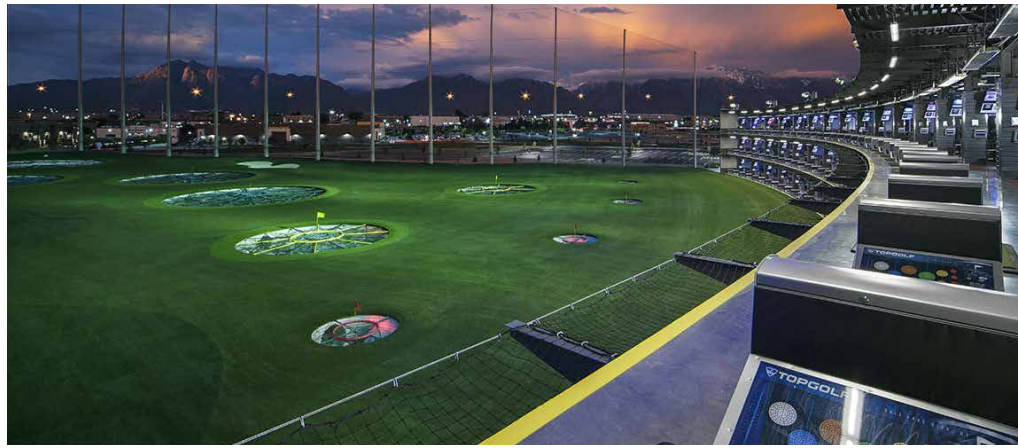
3rd place golfers: Brian Baker, Bryan Monahan, Lance Conley & Kevin Leasure



Some current and former board members having a great time: Gregory Ackerman, Nick Henn, Patrick O'Malley, Tom Garman



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