

# CHAPTER NEWS

## BALTIMORE-WASHINGTON LEARNS MORE ABOUT AN OSHA RULING UPDATE

The new OSHA ruling on respirable silica was the topic of the night on May 5 at the Marriott in Gaithersburg, MD for the Baltimore Washington Chapter of ICRI's second dinner meeting of the year. Charles (Chuck) Brienza, Safety Director with Concrete Protection & Restoration, was the speaker for the evening. Thank you to Tom Ouska of Manganaro, the chair of the program committee, for bringing this topic and presenter together.

Chuck's presentation was one of the most interesting, informative, and frightening to have been presented in a long time. The heart of the presentation was OSHA's reduction in the PEL for silica and the controls that are required to be utilized. In summary, water suppression or HEPA vacuums will be required for all activities that generate silica dust. This will have a massive effect on the industry.

The OSHA ruling (if it holds) will change the way that concrete restoration work is performed. It will also drastically increase the market pricing for our work. The implementation date is coming in 2017 which is rapidly approaching. Building owners would be wise to get as much concrete repair work completed prior to the implementation of this change.

The facilities committee chair, Kevin Kline of Concrete Protection & Restoration, made the arrangements for the venue which provided cold drinks for the networking and an excellent buffet enjoyed prior to the presentation. For any of you who missed the presentation, Chuck was gracious enough to post it online on the ICRI BW webpage. The Chapter is looking forward to their next dinner meeting on September 8 on "Decorative Concrete" presented by George Reedy of Miracote.

## QUEBEC PROVINCE HOSTS BREAKFAST CONFERENCE AND SOCCER OUTING

On April 5, 2016 in Boucherville and April 12 in Laval, the Quebec Chapter held its Annual Breakfast Conference. The topic of the conference was "Identification of Concrete Pathology" and was presented by Normand Tetreault from Soconex, a very well-known speaker in the province of Quebec. Between the two events in two cities, a total of 99 people attended. Out of the 99 there were 48 students, which sets a new record for the Quebec Chapter for student participation. Attendees were introduced to a number of technical, economical, architectural, environmental and structural challenges to which the concrete repair market in Quebec Province is exposed. The objective of the conference was to inform attendees of principal concrete pathologies which affect concrete performance and to identify accordingly the root causes of the degradation before proceeding to repairs and making sure the repairs will be sustainable.

Then, on June 8, 2016, the Quebec Chapter held its annual soccer outing. The group enjoyed the opportunity to network and watch their team, the Montreal Impact, for a third year in a row. The outing took place during the recent Canadian Championship Semifinal match between the Montreal Impact and FC Toronto. Unfortunately, the local team lost this game to their biggest rival. However, the guests were greeted with a warm buffet on a cold night and had the chance to chat with peers from the concrete repair industry. The event welcomed 19 people.

## VIRGINIA HOSTS SPRING SYMPOSIUM

The ICRI Virginia Chapter hosted its annual Spring Symposium on April 21, 2016, at the Virginia Beach National Golf Club

in Virginia Beach, VA. The Symposium topic was Parking Deck Restoration and more than 50 attendees were treated to presentations by Christopher Carlson (Engineering and Technical Consultants, Inc.), George Reedy (Crossfield Products), Peter DeNicola (Evonik), Suzanne Phillips (Erie Metal Systems) and Vince Beyer (Mapei). The day was capped off by the chapter's spring golf tournament on the championship course at Virginia Beach National. The winning team of Adam Hibsham, Jeff Bradley, Frank Duarte and Ryan Napier posted a captain's choice best score of 66, with Jeff completing a sweep by winning both the longest drive and closest to the pin competitions.



*After education comes golf in Virginia, and members of the winning team are all smiles*

Going forward in 2016, the chapter is hosting a Day at the Ballpark on July 20 at the Richmond Flying Squirrels stadium in Richmond, VA. This social outing is a great way for members and prospective members to have the opportunity to network and socialize while enjoying some great minor league base-



*The Virginia Chapter Symposium starts with networking and education*

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ball. The chapter is also currently planning its annual Fall Symposium for September 22 at Colonial Heritage Golf Club in Williamsburg, VA. The Board of Directors is lining up a variety of great speakers and presentations on the topic of Historic and Aesthetic Restoration. Make plans to spend a day in Williamsburg for a morning of education and an afternoon of great golf on an award winning course.

The chapter maintains a regularly updated website at [www.ICRIVirginia.org](http://www.ICRIVirginia.org). On the site, you can find details and registration for all our upcoming events and meetings. While you are there, sign up for the chapter's email list to keep up to date with everything happening at ICRI Virginia.

## ROCKY MOUNTAIN CHAPTER TAKES TO THE SLOPES

The Rocky Mountain Chapter held its first Ski Outing at Winter Park Ski Area



Skiers Mike Devlin with Rocket Supplies (left) and Calvin Chambers with Summit Sealants (right)

on March 4, 2016 with 23 avid skiers and boarders taking advantage of a beautiful 38-degree day with blue skies. The skiers and boarders were from 15 ICRI member companies representing engineers, contractors, manufacturers and distributors. The Ski Outing was coordinated by Mike Devlin from Rocket Supplies and a BBQ was provided at the base of the mountain after a full day of skiing. The second annual Ski Outing has already been tentatively scheduled for March 3, 2017.



Enjoying the event are (left to right) Calvin Chambers with Summit Sealants, Chris Yoder with Summit Sealants, and Jack Belanger with Smalley and Company



The skiers all enjoyed some good BBQ at the bottom of the slopes when the day of skiing was complete

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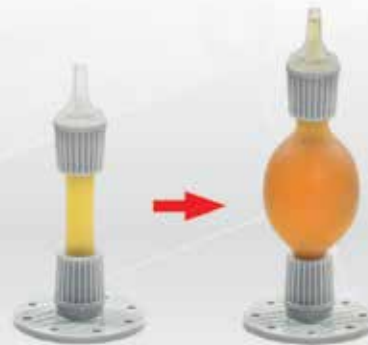
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## MINNESOTA HOSTS SUMMER TECHNICAL SESSION

On May 12, 2016, the Minnesota Chapter hosted its Summer Tech Session at the BASF facilities in Egan, MN. The topic for the 2016 Summer Technical Session was Destructive and Non-Destructive Testing. American Engineering Testing (AET) and Braun Intertec teamed up to present a comprehensive look at the testing methodologies for new and existing concrete. Adam Bakeman, Engineering Technician III at AET, and Nick Hansen, Associate Principal at Braun Intertec divided up the various concrete testing methods. Most of these tests have one or more ASTM standards to follow.



Speakers were Adam Bakeman with AET (left) and Nick Hansen from Braun Intertec, (right)

Adam started the session by discussing the tests associated with new concrete. Typically, while the concrete is still in the plastic state, the slump, air, and temperatures are measured to ensure the specified installation procedures and the desired mix design was followed. Samples are also taken at this time to test the compressive strengths at various curing times. Testing of the concrete after it is hardened requires the taking of a core sample. Compressive strengths can be measured and the samples can be looked at under a microscope, which is termed as Petrography. Petrography can analyze samples for such issues as finishing, carbonation, ASR, delamination, aggregate defects, cracking and freezing. Adam then discussed the nondestructive

testing methods to assess existing concrete. Sounding is the use of a hammer or chain dragged across the concrete to locate delamination below the surface. The rebound hammer and Windsor probes are tools used for insitu strengths; however, these tools should be used with discretion. Ground Penetrating Radar (GPR) is a very useful tool to show us what is in the concrete. It can locate reinforcement, voids, subgrade utilities and indicate slab thickness. Ultrasonic Pulse Velocity and Impact Echo are methods that measure honeycombing and voids by the use of sound waves. These can also be used after a repair has been completed to see if the issue was resolved.

Nick continued the discussion of testing existing concrete. Tensile pull-off testing is used in regards to coatings. ICRI has a technical guide to assist the testing agency and engineer. It is sometimes necessary to know the relative humidity and pH of the concrete. There are quick methods of testing for these requirements. ICRI also has a certification program for slab moisture testing. There are multiple load testing methods that can be performed onsite either on a small or large scale. As an engineer, it is important to consider the following before requiring an onsite load test. (1) Do you really need it? (2) What are you trying to simulate? (3) What is the test load value? (4) What are the criteria for a pass or fail? (5) Can the test be done safely and can it be kept nondestructive?

Movement monitoring of structures has become more prevalent over recent years. Methods to complete this range from a simple crack monitor to a continuous digital monitoring during construction, such as laser scanning or vibration recording. When considering corrosion issues with concrete, the Half Cell test is used to measure the electrode potential in the concrete; however, a reinforcement bar needs to be exposed in order to connect to it. Chloride Ion Testing is a useful and relatively easy way to measure the chloride in the concrete. Either dust or core samples are taken from the slab at various depths. The test is performed in the lab with acid

or water. Acid-soluble will detect all available chloride in the slab while water-soluble will measure only water soluble chlorides. Last discussed was the Infrared spectroscopy. This lab test measures wavelengths and can help with both new material admixtures and existing material failures.

The chapter had 27 attendees at this technical session; many were practicing structural engineers. BASF provided the location and breakfast for the group.



Attendees had the opportunity to learn about new concrete testing and the testing of existing concrete

## MINNESOTA HOSTS ANNUAL TRADE SHOW

The Minnesota Chapter hosted its second annual Trade Show at the Cement Masons Training Center Local #633 in New Brighton, MN on April 15, 2016. The 3-hour trade show is an opportunity for vendors to showcase new and interesting products to contractors and engineers prior to the season getting into full swing. Chapter Sponsors were allotted a 20-minute spot to demonstrate their products. Lunch was served with door prizes awarded throughout the day. This successful event saw over 70 people through the course of the show. Three attendees made the incredibly wise decision to join our Minnesota Chapter and signed up on the spot!

Here are a few of the highlights on the presentations. Andy Jones from Evonik demonstrated the Protectosil Anti-Graffiti line of products; Jack Tuckner showed dustless equipment from Metabo tools; Terry Babcock with CMI presented FSTR 30, a urethane adhesive used to bond dissimilar materials; Josh Krage with CKA demonstrated a line of very fast setting surface repair products

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by 5 Star; and Rick Gruye with Simpson Strong-Tie showcased a new dustless drill bit system to go along with its adhesive anchoring products.

Those presentations were followed by Andy LeBarron with Brock White, who introduced a flexible cementitious patching product called Elephant Armor; Gary Carlson with Gary Carlson Equipment brought his line of surface prep tools and pumps; and Bill Hall with Ardex explained his line of concrete repair and leveling products.

ICRI Minnesota is once again grateful to the Cement Mason's Local #633 for allowing the use of their training center! The chapter would also like to thank the



*The Minnesota trade show included booths from several local vendors*



*Minnesota Chapter Leaders Dan Wald (left) and Matt Drew (right) showing off the Yeti Cooler that was given away in a drawing from all attendees*



*The popular trade show allows vendors each some time to showcase what is new*

sponsors and members for making this a successful event. Please visit us at [www.icrimn.com](http://www.icrimn.com) for more on chapter information and events.

## CAROLINAS BUSY THIS SPRING

The Carolinas Chapter of ICRI travelled to Greenville, SC for its 2016 annual Spring Conference on April 21-23. The Embassy Suites Golf and Conference center hosted the chapter and attendees heard two days of educational presentations on the topic of Masonry Restoration. Speakers at the conference included Caroline Trautman (Anderson Jones), Glen Clapper (Brick Industry Association), Bob Crosser (Simpson Strong Tie), Brian Wolfe, P.E. (TEC Services, Inc), Mike Parker, P.E. (SKA Consulting Engineers), Matthew C. Farmer (Wiss, Janney, Elstner Associates, Inc.), Dr. Richard Bennett (University of Tennessee) and Larry Burkhardt (Conproco). Despite less than ideal weather, many of the attendees took advantage of the on-site golf course to participate in the Chapter's Spring Golf tournament at the Preserve at Verdae golf course.

During the Spring Conference, the chapter also completed its annual Service Project providing repairs to a cracked concrete floor at the Harvest Hope Food Bank in Greenville, SC. Materials for the project were provided by Phoscrete and a team of volunteers from the chapter donated their time to complete the work. Gene Vaughn, the Director of Warehousing and Compliance at Harvest Hope, offered his appreciation regarding the project:

"I would like to express our sincere thanks and appreciation for the concrete repairs you performed for Harvest Hope Food Bank. This was a critical issue for us with the concrete breaking up in the main path to our freezer. Harvest Hope Food Bank strives to utilize the majority of our funds and resources in accomplishing our mission of serving those in need. It is only with the help of volunteers and the assistance of organizations like yours that this is possible. Please pass along our thanks to all that were involved in making this happen. Thanks



*The Board of Directors of the Carolinas Chapter showing their ICRI pride*



*The spring conference included networking opportunities at lunch*



*A big conference draw are the technical sessions*



*Carolinas Chapter members participated in the annual Joint Golf Tournament in conjunction with the Waterproofing Contractors Association*

again for your contribution and assistance. God bless you and your organization. Sincerely, Gene Vaughn"

May 19 saw the Carolinas Chapter participate in its annual Joint Golf Tournament in conjunction with the Waterproofing Contractors Association. This annual event always features a high level of competition and this year was no exception. The winning team of Dan



*The winners of the Joint Golf Tournament*



*Team photo op at one of the sponsored holes*



*During the Spring Conference, the chapter also completed its annual Service Project, providing repairs to a cracked concrete floor at the Harvest Hope Food Bank in Greenville, SC*



*Several volunteers admire their handiwork during the chapter's annual service project*

Jones, Nick Capra and Mike Watts posted an impressive score of 14 under par on the challenging Forest Oaks Golf Club in Greensboro, NC. The Joint Golf Tournament helps both organizations raise money for their respective student scholarship funds and the nearly 50 golfers who participated this year generated close to \$4000.

The second half of 2016 is a busy time for the Carolinas Chapter. In July, the chapter will host a dinner meeting in Asheville, NC as an effort to reach out to prospective members in the western part of North Carolina. October 6-8 are the dates for the Chapter's Fall Conference with presentations on the topic of Repairs During New Construction. Charleston, SC is the host city for this year's conference which will feature the chapter's annual banquet and awards ceremony where the chapter Project of the Year will be announced. Finally, ICRI Carolinas will participate in our annual Sporting Clay Shoot with the Waterproofing Contractors Association on November 3 at Drake's Landing in Fuquay Varina, NC. Visit the Carolinas Chapter website at [www.ICRICarolinas.org](http://www.ICRICarolinas.org) to keep up to date with everything going on in the Carolinas.

## GEORGIA HOSTS SCHOLARSHIP FUND GOLF TOURNAMENT

In 1959, a Georgia tradition began with the development of Northwood Country Club, the first private club in Gwinnett County. That tradition continues today with the memorable experiences provided to ICRI Members and their invited guests. The 18-hole golf course was designed by Willard Byrd and plays a staggering 6,800 yards from the gold tees. Northwood Country Club played host to the 2016 ICRI-Georgia Fundraising Golf Tournament on May 2, 2016. The weather was perfect and a good time had by all.

This year's ICRI-Georgia Fundraising Golf Tournament was our best year ever with participation at an all-time high. A special thanks goes out to the 54 golfers who played in this year's tournament with company sponsorship for holes,

tents, food, and goodie bags supported by several volunteers. Upon conclusion of the golf, ICRI-GA President Bryan Heery presented trophies to the 1st, 2nd, and 3rd place winners and raffle ticket prizes were distributed. Prizes included golf clubs, accessories, apparel, and gift cards which were generously donated by PGA Superstore and local participating companies.

The Georgia Chapter wishes to congratulate all the winners! First Place Team went to Stone Mountain Access Systems (an event sponsor) with golfers Chris Billish, William Davis, James McAra, and Jeff Oosterwyk. The Second Place Team was awarded to HD Supply. That team included Bill Cox, Dennis Top, Craig McCurdy, and Tony Gilliland. The Longest Drive competition on hole 15 was won by Carlos Martinez. And finally, the Closest to the Pin was won on hole 4 by Rafael Bryan.

## DELAWARE VALLEY GOES 3D

The Delaware Valley Chapter of ICRI hosted its May dinner meeting on May 17, 2016, at Maggiano's Italian Restaurant in King of Prussia, PA, and had a great turnout despite some scheduling conflicts. The meeting featured a presentation about 3D laser scanning (3DLS), given by Rob Ashley of Haag 3D Solutions. The presentation included some fascinating aspects of this relatively new technology. Rob started with a general overview of the capabilities of various types of 3D laser scanners and the limitations of each type in order to provide the best results for establishing accurate existing conditions. He then went on to point out the various techniques used to document high rise facades, industrial sites, bridges, roadways, and accident sites.

After that, Ashley went on to discuss the expectations of what laser scanners can and cannot do, how they work under the principle of "line of sight," with explanation that multiple reference points are sometimes needed to get a complete scan of all surfaces; and finally, how to specify required accuracies and how to



*A great crowd filled Maggiano's for the Delaware Valley chapter meeting on 3D laser scanners*

request 3DLS services through the use of specifications.

Rob also discussed the level of detail provided by each scanner apparatus, deliverables such as AutoCAD drawings, point cloud models and the software required to view them, integration into Building Information Modeling (BIM), GIS, and future use by Facilities Management with visualization options.

## **METRO NEW YORK AND THE NEW HUDSON YARDS MEGA-PROJECT**

On Wednesday, April 20, 2016 the Metro New York Chapter of ICRI hosted a meeting with friends, colleagues, and industry associates at Club 101 on Park Avenue in mid-town Manhattan. The technical speaker for the evening was Andrew Werner, Associate Principal at Kohn Pedersen Fox Associates, a world-renowned architecture and design firm with over 600 staff across six countries and three continents. Mr. Werner's presentation was titled "Developing Hudson Yards, the largest private real estate development in US history."

Since 2011, Andrew has been assisting with the project management and technical coordination of KPF's work at Hudson Yards, including: 30 Hudson Yards, a 1,300' tall, 3 million square-foot mixed-use tower and the future headquarters of Time Warner, KKR and Wells Fargo, and the 895' tall, 1.7 million square-foot 10 Hudson Yards, which will open this year as the headquarters of Coach, L'Oreal and SAP. Mr. Werner is also currently serving as project manager and lead technical coordinator for 420 Albee Square, which will become

Brooklyn's first (and tallest) ground-up, class-A office tower in over two decades.

This lecture covered the complex and wide-ranging saga of Hudson Yards—the largest private real estate development in US history

This included the history of the site and its many stakeholders, the incredible complexities of building a city in the airspace above an active rail yard, and an added focus on the design and construction of KPF's mixed-use office towers and retail complex, totaling over 5.5 million square feet.

After and during these informative presentations, there was plenty of time for questions and answers.



*Metro New York Chapter President Stephen Franks, with Blok-Loc Limited, introducing the technical speaker*



*Technical speaker for the evening Andrew Werner addressing the audience at Club 101*



*Board members of the Metro New York Chapter with their newly acquired Chapter of the Year patch*



*Conceptual design of the entire Hudson Yards project courtesy of KFP.com*



*A closer look at one of the conceptual designs courtesy of KFP.com*

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### METRO NEW YORK HOSTS MAY TECHNICAL MEETING

On Wednesday, May 18, 2016 the Metro New York Chapter of ICRI hosted a meeting with friends, colleagues and industry associates at Club 101 on Park Avenue in mid-town Manhattan. The technical speaker for the evening was Professor Matthew P. Adams, PhD, an Assistant Professor in the John A. Reif, Jr., Department of Civil and Environmental Engineering at New Jersey Institute of Technology in Newark, NJ. Dr. Adams examines the link between the chemistry of cement-based materials and their long-term durability and resiliency. His research interests include early-age properties of concrete and long-term durability, with a specific focus on alternative cements and sustainable concrete materials. His research group is focused on developing scientific understanding of construction materials in order to better understand how they perform in the field.

For the Metro New York Chapter he presented on "The Use and Misuse of Rapid Concrete Repair Materials." The presentation focused on rapid repair materials and their growing popularity across North America because of their ability to gain strength quickly and provide high strength repair solutions while reducing road and facility closure times. Rapid repair materials vary in composition, ranging from Portland cement systems to blends of alternative cements. This range of compositions means that not all rapid repair materials are created equal; therefore, it is important to choose the correct material for each situation. Additionally, not all performance tests are appropriate for all repair materials. Misuse and improper testing of repair materials can result in a significant reduction of expected repair life. An examination of the main differences between the different types of cement-based rapid repair materials available was presented. Properties such as workability, strength gain, and durability were discussed.

Advantages and disadvantages of different systems were considered along with some case study examples. After and during these informative presentations, there was plenty of time for questions and answers.



*MNY Chapter Secretary Marjorie Lynch, PE, with Lynch & Ferraro Engineering, welcomes attendees and introduces the technical speaker for the evening*



*Professor Matthew P. Adams, PhD, speaking to the attendees*



*Dr. Matthew Adams (left) with MNY Chapter Secretary Marjorie Lynch, PE (center) and Chapter President Stephen Franks (right)*

### 2016 CHAPTER NEWS DEADLINES

#### SEPTEMBER/OCTOBER

July 10, 2016

#### NOVEMBER/DECEMBER

September 10, 2016

Call Dale Regnier, Chapter Relations Director, at (847) 447-1701 for information on how to send your Chapter News to ICRI.