THE AGGREGATE
International Concrete Repair Institute Baltimore Washington Chapter, Inc.
www.icribwchapter.org
1st Quarter 2014

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LAKE BARCROFT DAM PROJECT

By Ville Vainio, Contracting Specialists, Inc.

Lake Barcroft came into existence in 1915 due to a need for water by the City of Alexandria, which prompted the Alexandria Water Company to build the dam and establish a reservoir to store the waters from the branches of Holmes Run.

Construction of the Barcroft Dam began in 1913 utilizing a method of cyclopean masonry and concrete as the structural basis. Cyclopean masonry is traditionally formed from close fitting boulders that are strategically placed to allow minimal clearance between adjacent stones. However, the original construction expanded on this concept and encased the cyclopean dam in concrete for stability and later placed a wearing surface of exposed stone on the face of the main elevation spillway.

Ultimately, the result was a dam 400 feet wide with the spillway at the top 205 feet above mean sea level and 63 feet above the stream bed. The dam formed a lake comprising 115 acres with over five miles of shoreline. When full, the dam held nearly 620,000,000 gallons and had an average daily runoff of about 10,000,000 gallons. In 1942, gates were installed at the top of the dam to raise the spillway level five feet. This increased the size of the reservoir to an area of 135 acres and the capacity to about 800,000,000 gallons.

Following consistent use for a number of years, the two abutments located on the East and West ends of the main spillway were in a state of disrepair. The faces of the East and West abutments were cracked throughout, spalled and delaminated with vegetation taking root in the wall surface. The

see Barcroft page 4

THE AGGREGATE INSIDE

ICRI BW Chapter 2014 Board of Directors
We want to welcome our new Board of Directors!
see page 4

Check Out Our Upcoming Events
Local & National Events
see page 8

2013 ICRI-BWC Fall Technical Seminar
Over 90 attendees including design professionals, contractors, material suppliers, owners and students attended the Seminar on Concrete Construction. Check out the Write-Up and Pictures!
see page 9

ICRI National 2013 Fall Convention
Chapter President Mike Prizzi, MetroSealants, attended the Convention in Chicago and gives us the highlights!
see page 11

Habitat for Humanity, Montgomery County
10 Volunteers from the ICRI BW Chapter assisted Habitat for Humanity on The Maple Hill Project on Saturday, December 7, 2013. Check out the Pictures!
see page 12

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-BW Chapter Members,

Happy New Year to all of our **Baltimore** Washington Chapter ICRI members and families! I hope that 2014 will bring you all good health, happiness and prosperity.

I want to thank Oscar Valenzuela, the Chapter's Past President in 2013, as well as the 2013 Board Members for making 2013 a successful year for our Chapter. With Oscar's leadership directing the Board we were able to focus and achieve much success with the Chapter's committees and over all goals. As outlined in our Mission Statement, we need to continue to be "the" prime resource for education and information regarding quality repairs and restoration of concrete. Our purpose is to promote the growth of our concrete repair organization and continue to educate all in our industry whether they are ICRI members or not.

Though most of you already know that our Chapter has many committees, it is worth reminding you what they are and the main functions of them.

- Newsletter & Communications - publishing The Aggregate
- Education & Scholarship - providing scholarships to ICRI members and their families)
- Meeting and Facilities - planning our dinner meetings and technical seminars
- Sponsorship - recruiting companies to sponsor chapter events
- History - keeping track of all we have accomplished over the years
- Industry Outreach - working with Carver HS students and volunteering for Habitat for Humanity
- National - corresponding with the National Organization
- Awards & Programs - reviewing project awards
- Finance – keeping our Chapter fiscally sound
- Golf – planning and organizing our golf outing
- Chapter Awards – preparing forms for National awards
- Technical – locating and qualifying articles with regard to materials and methods
- Nominating – finds new candidates for future officers and board members

This year, with the guidance of the Board as well as input and assistance from our membership, I would like to see our Chapter continue to grow and prosper. Several of our goals include:

- Achieve the Chapter of the Year status
- Increase our membership by 5 – 10%
- Increase our attendance at Dinner Meetings
- Continue providing informative Dinner Meeting presentations
- Continue to provide scholarship opportunities for our membership
- Utilize publications, meetings and networking opportunities for educational purposes
- Increase participation all our members in Chapter activities

I want to thank the 2014 Board Members in advance for their dedication, time and efforts. The Board Members for 2014 are Brian McCabe (Vice President), Cindy Garman (Secretary), Jay Whitton (Treasurer), Sean Fisher, Shannon Bentz, Andrew Carr, Kevin Kline, Brian Baker, Larry Burkhardt, David Caple, Adam Hibshman and Robert Radcliff.

I would also like to thank two more members who contribute a lot of time and energy to our organization, Tom Ouska our Program Committee expert and Neil Savitch who has worked tirelessly for many years to create, organize and publish the Aggregate, the best ICRI chapter newsletter of all the local chapters from around the country. Neil is retiring from the Board this year and we want to wish him well in all his future endeavors.

I recently attended the ICRI National Convention in Chicago, IL this past fall. I was pleased to discover the many ICRI Chapters look to our Chapter, The Baltimore/ Washington Chapter, as "The Model" with which they hope their chapters will someday be. We are so fortunate to have the large membership, vast participation, and industry knowledge and experience that make our Chapter so successful. With hard work and dedication to improving the concrete repair industry we as a Chapter will surely continue to be "The Model" Chapter for others and for the concrete industry as a whole. I thank you all for your continuing support to our Chapter.

This year I look forward to even more involvement from our members and encourage everyone to look for opportunities to volunteer, to assist on our committees and to help grow and support our Chapter. To become involved in any of our activities, please feel free to contact me and/or any of the committee chairs.

Our first meeting is our joint meeting with ACI and is scheduled for February 13th, 2014. The meeting will be held at Maggiano's Little Italy in the Tyson's Galleria. Our scheduled speaker is Mark Christianson, National Sales Manager of the Cortec Corporation. Mr. Christianson's discussion topic is "Corrosion Control in Concrete" utilizing both admixtures and coatings. We look forward to seeing you there. Addition information pertaining to our Chapter can be found on our website at www.icribwchapter.org. Finally, I would like to thank all the Baltimore/Washington Chapter Members for this opportunity to serve you. It is a true honor. We look forward to a successful and productive year. If you have any questions, comments or suggestions, please give me a call or email me at mikeprizzi@metrosealant.com.

Mike Prizzi
ICRI-BWC President 2014
Metro Sealant & Waterproofing Supply

THE BALTIMORE WASHINGTON CHAPTER OF ICRI

THURSDAY, FEBRUARY 13, 2014

Maggiano's Little Italy

2001 International Dr, McLean, VA 22102

703-356-9000

Tysons Galleria

Members by 02/07/14:	$50
Non Members & Members After 02/07/14:	$60
4:00	Board Meeting
5:30	Social Hour
6:30	Dinner & Presentation

ICRI-BWC
NCCACI
FEB 2014
JOINT
DINNER
MEETING

American Concrete Institute®
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"Sustainability Through Corrosion Inhibitors"

OUR FEATURED SPEAKER

Mark Christianson,
National Sales Manager/MCI/Additives, Cortec Corporation

OUR FEATURED PRESENTATION

The presentation will consist of:

- An introduction to corrosion and a history of corrosion inhibitors;
- A review of types of inhibitors and their unique characteristics, applications and effectiveness;
- Case studies on the utilization of inhibitors in both new construction and in restoration applications.

REGISTRATION DEADLINE IS **February 7, 2014** NO-SHOWS WILL BE BILLED

Please email (cindyg@skaengineers.com) or print this page and fax to ***Cindy Garman***, Secretary, at 301-881-8066 no later than February 7, 2014 Checks made out to ICRI BWC may be turned in at the meeting or mailed with your form to:

Cindy Garman, Secretary
ICRI BW Chapter
C/O Smislova, Kehnemui & Associates
12505 Park Potomac Avenue, Suite 200
Potomac, MD 20854

You may also register and pay online at

www.ICRIBWChapter.org

Name: _____

Company: _____

Telephone: _____

Email: _____

Number of Guests: _____ Payment: ☐ Enclosed ☐ Online
(Please include receipt)

Guest Names: _____

_____

Guest's Company: _____

BARCROFT
Continued from page 1

owner and engineer embarked on a restoration strategy for this historic dam that could be completed without compromising the structural integrity of the existing cyclopean masonry while allowing the bascule gate to remain functional. These two aspects were of paramount importance as the masonry could not be compromised during the repair activity as they were restraining in excess of 800 M gallons of water and the automated gate at the main spillway needed to able to adjust appropriately to increases in water level.

Mindful of these sensitivities, the design team devised a repair strategy to focus on the reinforcement of the abutments to retain the structural integrity during the construction process. In order to achieve the desired strengthening, the devised concept was to place a minimum of an 8" thick concrete wall topping onto the face of the sloped abutments. However, prior to the placement, of the sloped wall surface, the existing delaminations needed to be removed and isolated concrete repairs were completed. Various shallow surface delaminations were simply removed and a trowel applied repair material was applied to achieve a smooth transition from the spalled areas to the remaining finished surface. Following the substrate repairs, drainage composite was incorporated to provide an avenue for any water seepage to escape from the interstitial space between the abutment and the reinforcing wall. A drainage tile was installed at the base of the sloped abutment to direct this water to daylight and mitigate the potential of freeze thaw damage between the two layers.

The construction process began in the yard of the dam management facilities located adjacent to the East abutment, to construct a full scale mock up panel approximately 12'x10' in size. This panel directly emulated the slope of the abutment and would allow the team to evaluate

see Barcroft page 6

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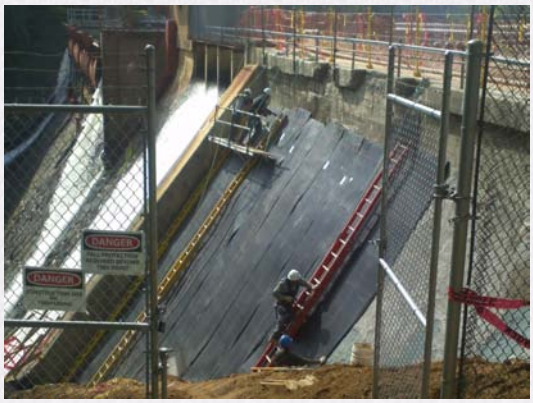
BARCROFT

Continued from page 4

the final product, modify any procedures and clarify construction details prior to full scale mobilization on the actual face of the abutments. The mock up was essential for the successful completion of the project to ensure that the proper mix design was achieved from the concrete vendor that would meet both the required performance characteristics as well as achieve sufficient workability to

allow for the pumping of the concrete material. During this process, the concrete pumping company was engaged to review logistics and plan for the subsequent pours. Following the successful inspection and review of the mock up panel, mobilization began on the East Abutment.

The East abutment, measuring approximately 1,800 SF, is the smaller of the two abutments and located adjacent to the facilities management office. The area was accessed preliminarily to remove the severe spalls and delaminations. This was accomplished with only the use of hand tools to ensure that any demolition did not extend too deep into the face of the historic concrete abutment and thereby compromise the structural integrity of the abutment. Following the removal of the debonded concrete, a cut was made in the base of the abutment at the grade line to provide a reveal which would accommodate the installation of drain tile consisting of perforated PVC pipe surrounded with an open graded aggregate and wrapped in a filter fabric. This notch allowed us to maintain a minimum of an 8" thick overlay with a consistent finished surface while following the profile of the existing abutment surface. With the drain tile installed, the hand trowel application of a repair mortar to smooth the delaminated surfaces and spall locations began. Subsequently, the drainage composite was installed and tied into the drain tile at the grade line. The installation of reinforcing steel hook bars and welded wire fabric was the next operation to commence during which No. 5 reinforcing steel bars were anchored into the abutment substrate surface which would function to mechanically attach the new sloped overlay. The welded wire fabric was then tied to the grid of epoxy anchored hook bars. With all the preparatory activities completed, it was time to begin with the concrete placement operation.



The ready mix concrete was to be placed in various pours or lifts to allow for the installation of horizontal expansion joints. These lifts were in large part formed with standard, rectangular form panels; however, the varying profile of the abutment surface required a significant amount of custom formwork along the base to meet a profile that was changing in three dimensions. Meaning, that not only were the height and width changing, but so was the slope along the hillside. The various lifts were located approximate 12' apart vertically unless dictated otherwise by the profile of the abutment. During the concrete placement, an extending boom concrete pump truck was utilized and staged in the parking lot area above. The boom was extended approximately up to 125 LF from the truck to the formwork work. The East abutment

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BARCROFT

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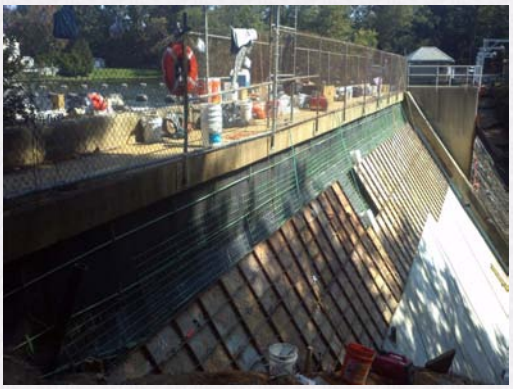
was placed in four sloped pours following the abutment profile with a fifth pour being oriented vertically to meet the plane of the walkway at the top of the abutment. The East abutment consisted of approximately 54 CY of concrete that was placed via pump.

Following the completion of the East abutment repairs, work on the second phase or West Abutment commenced immediately. The West abutment is substantially larger in area, totaling approximately 3,600 SF. In addition to the increase in size, logistical challenges were integrated with the West abutment repairs. Due to the location on the opposite side of the lake, the West abutment had no walk up access, requiring transport boats and a barge to simply access the work area. Furthermore, this required that all materials and debris be sent across the lake via barge or returned to the East side for disposal in our staging area. This access, while not only significantly time consuming, introduced additional safety hazards. A work barge was fabricated to house all convinces for the day. Secondly, the access for concrete pumping equipment and materials was restricted due to the presence of private residences adjacent to the West abutment in lieu of a designated staging area.

Phase II involved the same scope of repairs consisting of removal of loose, delaminated concrete and the application of a trowel applied repair mortar to establish a level surface. Along the base of the abutment at the grade line, a perforated pipe and aggregate were placed to form a drain tile and connected with a drainage composite placed on the face of the existing abutment allowing water drain water from between the two layers. The reinforcing steel hook bars and welded wire fabric were installed in the same manner as on the East abutment.

The ready mix concrete was again placed in lifts of approximately 12' in vertical height, however, due to the increased size of this area, the material was placed in six pours of varying widths, totaling approximately 85 CY of concrete. However, the placement of the material was substantially more challenging in this phase as a result of the limited access to the West abutment. Despite being granted permission to use the driveway of resident, the concrete truck and pump truck were placed in excess of 250 LF from the abutment face. This required the use of approximately 300 LF of 4" diameter pump line consisting of both rubber and steel sections to maneuver around various obstacles. The loss of slump due to the length of pump line coupled with rising summertime temperatures required us to reevaluate the placement procedures that were proved in the first phase on the East abutment.



As a result, we needed to revisit the concrete mix design in order to aid the flow ability and the pumping operation without compromising the stringent material property requirements, particularly the water – cement ratio. After evaluation and review with the design team, we resolved to incorporate super plasticizer to the mix design. This chemical addition maintained the compressive strength, water cement and air content characteristics of the ready mix concrete while providing a flowable material that was pumpable through a long section of pump line.

Ultimately, the project was successfully completed as scheduled and within the budget. The dam abutments are preserved to continue functioning properly for years to come.

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UPCOMING CHAPTER EVENTS

Feb 13, 2014	**ICRI-BWC-NCCACI Joint Dinner Meeting** *Sustainability Through Corrosion Inhibitors* *Location: Maggiano's Little Italy*
May 8, 2014	**2nd Quarter Dinner Meeting** *Location: TBD*
Sept 11, 2014	**3rd Quarter Dinner Meeting** *Location: TBD*
Oct 2, 2014	**2014 Annual Golf Tournament**
Nov 6, 2014	**2014 ICRI-BWC Awards Banquet** *Location: TBD*
Dec 4, 2014	**Fall Technical Seminar** *Location: TBD*

UPCOMING NATIONAL EVENTS

Mar 19-21, 2014	**ICRI 2014 SPRING CONVENTION** *Theme: "Infrastructure Repair"* *Peppermill Resort Spa & Casino* *Reno, NV*

2013 FALL TECHNICAL SEMINAR WRITE-UP

Our Host, Mike O'Malley, CPR

On December 5, 2013, the ICRI Baltimore Washington Chapter met for their annual Fall Technical Seminar.

The event was held at Concrete Protection & Restoration's warehouse in Baltimore, MD. This event was the final event of the year for the BW Chapter. The theme of the Technical Seminar was "Concrete Construction".

The seminar was well attended by over 90 attendees that included design professionals, contractors, material suppliers, owners and students. As part of the Chapter's ongoing outreach program with local Vocational Schools, the Chapter sponsored six (6) Carver High School students as well as their masonry instructor.

The day began with a continental breakfast as members and non-members alike gathered to discuss personal and professional activities. With all gathered, President Oscar Valenzuela began the seminar by welcoming everyone and laying out the agenda for the day as well as upcoming activities and events for the coming year.

There were five (5) presentation topics for the day and included the following:

1. "Non-Destructive Testing" presented by Larry Olson of Olson Engineering
2. "Concrete Mix Design and Admixtures" presented by Tom Evans & Steve Tripp of Maryland Ready Mix Concrete Association and Rod Meyer of BASF
3. "Petrographic Analysis and Technology" presented by Gerard Moulzolf of American Petrographic Services.
4. "Corrosion Resistant Steel" presented by Ranzo Taylor of MMFX Steel
5. "Fibers in Concrete" presented by Bill Lyons of Euclid Chemical Company

At the end of the presentation, a demonstration of non-destructive testing equipment and analysis was performed.

All in all, the seminar was a huge success with many of the attendees leaving with new knowledge regarding the technical analysis of evaluating concrete. The BW Chapter wants to thank the members for great attendance and for the presenters for finding time in their busy schedules to give us valuable information with regard to proper mix design, sustainability and test evaluation of concrete.

Mike Prizzi
Incoming President for 2014

Oscar Valenzuela Outgoing President
Emcees

see more Seminar Pictures on page 10

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2013 FALL TECHNICAL SEMINAR PICTURES

Bill Lyons, Euclid Chemical
Fiber Reinforcement - From Straw to On Grade, Topping & Elevated Slabs

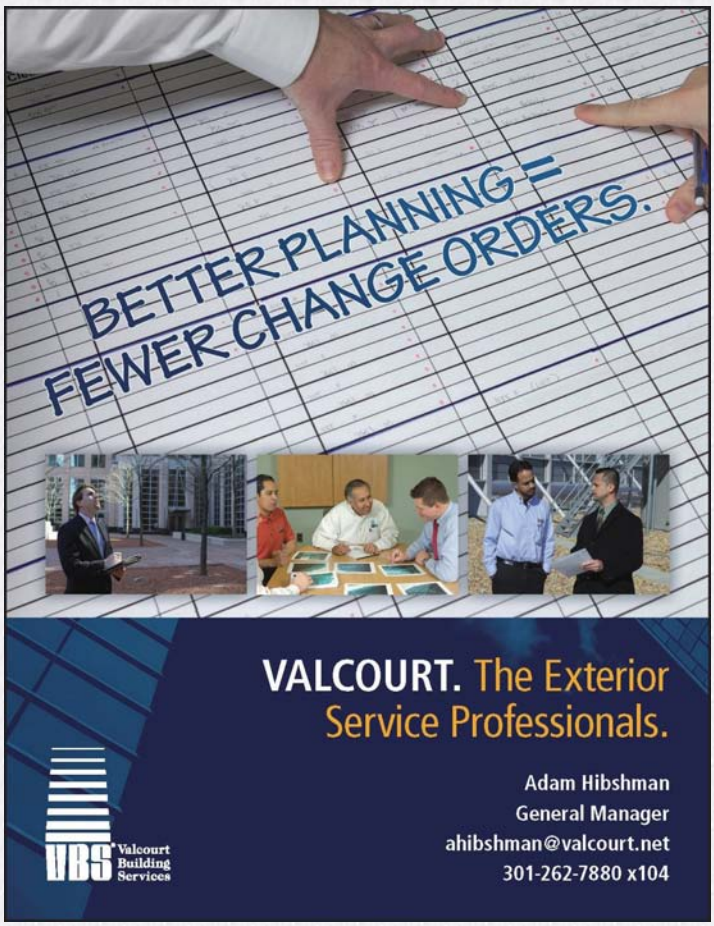
Larry Olson, Olson Engineering
Non-Destructive Testing

Gerard Moulzouf, American Petrographic Services
Petrographic Analysis and Technology

Steve Tripp, Chaney Enterprises & MD Ready Mix Association
Concrete Mix Design & Add Mixtures

Rod Meyer, BASF
Concrete Mix Design and Add Mixtures

Ranzo Taylor MMFX Steel
Corrosion Resistant Steel



Carver H.S. Students attend Seminar

Baltimore Washington Chapter
Banner of Success

ICRI NATIONAL FALL CONVENTION WRITE-UP

As the delegate for the ICRI Baltimore/Washington Chapter, I had the pleasure to attend the 2013 ICRI Fall Convention held at the Fairmont Hotel in Chicago, IL. The theme of the Convention was "Looking Back" the ICRI Celebrates its 25th Anniversary.

Whirlyball Outing Wednesday Afternoon:
Though I was not able to attend because I arrived in the late afternoon, many attendees started the Convention off on a fun note by playing a local favorite called Whirlyball. The game is played while in bumper cars and involves passing a ball from teammate to teammate ultimately trying to score by throwing the ball through a hoop with shortened modified lacrosse stick.

Welcome Reception Wednesday Evening November 13th:
I was able to attend the Welcome reception for all the attendees. I had not been to a National Convention in over 6 years and was pleasantly surprised at how well the reception was attended. Later I found out that a new all-time high record was made with the official attendance for a National Convention at over 325 attendees. The reception was held in a large meeting room where there were table tops exhibits with 45 vendors, also a record, displaying their products. Each of the vendors paid to exhibit which contributed greatly to the overall support of our national organization.

Opening Luncheon Thursday November 14:
The attendance was very high for the Opening Luncheon. The keynote speaker was a former Navy Seal, Eric Greitens, who, now retired from the Military has started a charity organization for wounded veterans. His approach is a novel one in that his main goal is get the wounded veteran involved to help others so that their sense of self-worth grows. By having a purpose in life for helping others the veterans realize they can make a difference in the world even though they may have permanent physical impairments. The lesson to be learned in our regular lives is that we all can participate to help others in both our personal and professional lives.

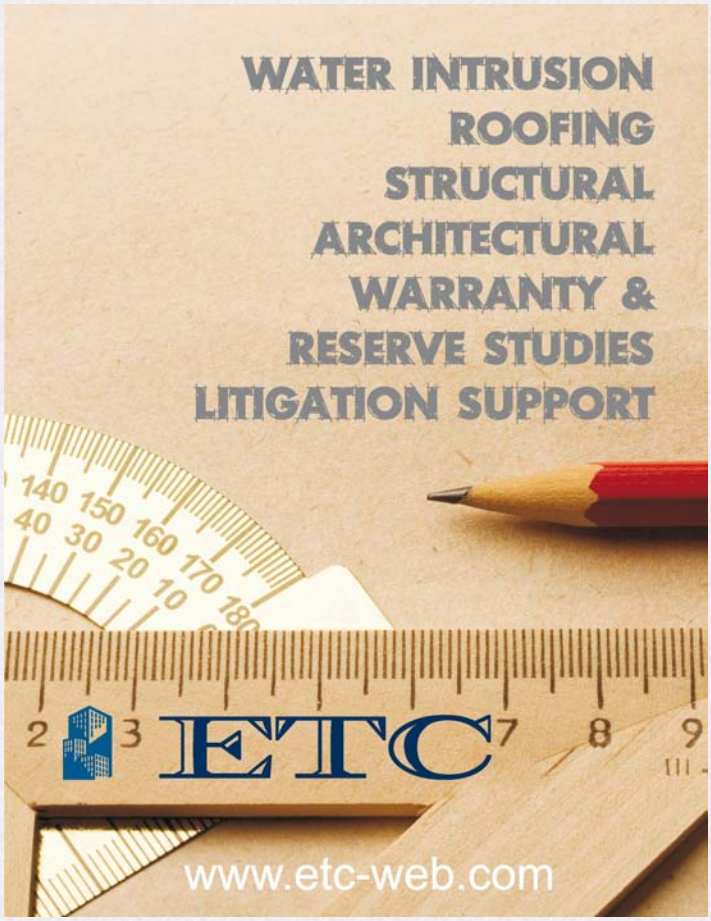
Committee Meetings Thursday November 14th Afternoon:
There over a dozen committee meeting held after lunch and because each meeting is typically 2 hours and run concurrently it is very difficult to attend more than a couple. I attended the Corrosion Committee and the Awards Committee meeting. The Corrosion Committee Meeting was very technical though it seemed that they needed to have more "experts" in the field of corrosion to give them some more guidance for current and future research. The members were working on ICRI Guidelines for Corrosion control and what should and should not be included in the final draft. Only the "members" are eligible to vote, delegates were non-voting guests. The Awards Committee was working on how to possibly change the format for future Award Banquets/Presentations. An idea was presented that I hope will be adopted changing the currently format of a seated formal dinner at tables followed by the presentation to having heavy finger food in a networking format followed by the presentation in auditorium style seating.

Technical Sessions November 15th Morning:
There were many technical sessions during the overall Convention, but due to time constraints there was only time for attending a couple of them. I chose to attend the "Newest Generation of Crack Healer/Sealers presented by Euclid Chemical Company. Euclid focused on a new generation epoxy products that are moisture insensitive and are flexible. They are low odor, 100% solids with very low flash points.

Inter-Chapter Luncheon and Forum November 15th Midday:
This Luncheon was organized and run by Dale. Spent a lot of time discussing how each chapter can improve. What works and what doesn't in terms of growing and sustaining a chapter. I was very proud to realize that many chapters looked to the Baltimore/Washington Chapter as the "model" chapter.

In review, Chicago is a good location for the Convention, however, it would have been nice to be there in warmer weather. The speakers were outstanding and in general provided quality information. The exhibitors were plentiful and displayed a wide variety of technically advanced concrete repair products. There was record attendance and the hotel service was outstanding. All in attendance acknowledged the milestone of the ICRI being 25 years old and recognized how far it has come with regard to providing a valuable resource for the repair and maintenance of concrete. It seemed even though the ICRI is 25 years old there was a renewed commitment and vigor to enhance ICRI to greater heights.

Michael Prizzi
Convention Delegate, Baltimore Washington Chapter



INDUSTRY OUTREACH

ICRI-BWC PARTNERS WITH HABITAT FOR HUMANITY, MONTGOMERY COUNTY

Habitat for Humanity is a non-profit organization that seeks to eliminate poverty and homelessness. This is accomplished through the efforts of volunteers, working alongside of the prospective Habitat homeowners, to build the Habitat house. HFH-MC has helped 64 families move out of substandard conditions and into affordable homes since its establishment in 1982. Only one home has gone into default, and all of the original owners still own their homes. In addition to volunteer labor, donations of money are also accepted to help build the Habitat homes.

This year ICRI BW Chapter assisted Habitat for Humanity on The Maple Hill project. The site location is on Emory Grove Road in Gaithersburg, MD and consists of 19 town homes.

It was a brisk Saturday on December, 7, 2013 when ten ICRI BW Chapter volunteers met on-site for our scheduled build-day. We were joined by several home buyers, a few individual volunteers and a second organized group. All were given a brief safety lesson before being broken into six working groups throughout the site. Our work this day included installing exterior insulation and damproofing and constructing interior partition walls.

It was a slow process with a mix of skills and limited tools. The plans and dimensions were more of a guideline and the nailing for example was completed with hammers, not nail guns.

At lunch, ICRI BW bought our volunteers pizza. Everyone gathered to eat lunch and discuss HFH-MC. We learned how folks qualify for a home, what type of stipulations are included in the contract, how the land was acquired, how this project is unique in the quantity of work being performed by paid professionals due to its height and how these homes are rare in that they will have a parking garage. The project is slated to be complete in August 2014. HFH-MC briefly mentioned some of their upcoming projects, which sounded like ICRI BW will have future local opportunities.

Volunteer slots filled quickly and those who volunteered late were unfortunately turned away. ICRI BW will be planning another local build day and will look into increasing the number of volunteers. This event was successful due to the efforts by the group of ICRI volunteers that participated. It provided our ICRI members with an opportunity to give back to our communities by helping those that are less fortunate. The Industry Outreach Committee of the ICRI BW Chapter is extremely thankful to all of the volunteers that have donated their time and skills to the Habitat for Humanity organization.

Great Work!

ICRI BW Begins to arrive at the project site!

Danielle Lambert collecting lumber to begin interior wall construction

Left to Right: Eric Reed, Luis Pinzon, Daniel Whipple, Hedy Thomas, Tom Garman, Danielle Lambert, Shannon Bentz, Adam Hibshman, Ashley Hibshman. David Dorsch is not pictured as he was determined to finish the construction of his wall before leaving.

see more Pictures on page 13

INDUSTRY OUTREACH

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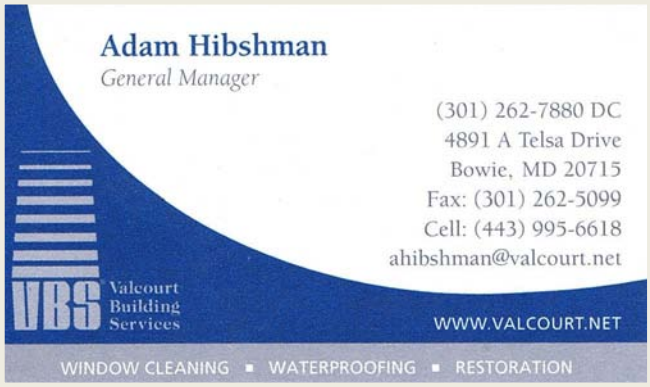
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