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DECORATIVE CONCRETE ISSUES ON THE 9-11 MEMORIAL



With decorative concrete, cementitious overlays and coatings becoming integral part of restoration projects as well as new construction projects; aesthetics and meeting aesthetic expectation becomes more of an issue especially in relation to adjacent substrates. One good example of potential issues was exhibited during the National 9-11 Memorial in New York City.

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THE AGGREGATE INSIDE

ICRI-BWC 2nd Quarter Dinner Meeting

TERRA COTTA

May 9, 2013 - College Park, MD
Join us at the Holiday Inn!

see page 3

The World of Concrete

was held in Las Vegas on February 4-8, 2013.
We were there!!!

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LEGAL COLUMN

Virginia General Assembly Issues New
Requirements for Virginia Mechanic's Liens

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SAFETY COLUMN

OSHA's Most Cited Standards

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2013 National ICRI Spring Convention!

Find Out What Happened!

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2013 ACI-NCC - ICRI-BWC Annual Joint Dinner Meeting Wrap-Up

143 attendees joined us to learn about the World
Trade Center Reconstruction!

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,

Spring has officially arrived, wait, yes, no, finally yes! The temperatures in the Baltimore Washington area have finally turned warm in the first week of April. This past winter felt like one of the longest winters in a long while. With warmer weather comes the Cherry Blossoms! Each Spring brings about many familiar and exciting times to all of us such as: enjoying the longer daylight hours, playing golf, exercising in the fresh air, the blooming of the cherry blossoms, trolling for rockfish on the Chesapeake Bay, attending Opening Day at the ballparks, enjoying March Madness, looking forward to the NFL Draft for those re-building teams, and planning for the upcoming summer season. Spring is also typically a busy time for those involved in our industry as we begin to see an increase in our project workloads and backlogs. Hopefully, the wonderful weather patterns continue throughout the year and allow us all to prosper.

Our Chapter started off the year with our February dinner meeting; our joint meeting with ACI – National Capitol Chapter. A new record was set with 143 attendees in all. What a great turnout! The venue and food were outstanding, networking was widespread, and the presentation by Mark Wierciszewski, P.E., on controlling in-situ concrete temperatures for high strength, mass concrete was very impressive. I thank everyone for supporting our Chapter, and look forward to seeing everyone at our upcoming events throughout the year.

Our next upcoming social hour and dinner meeting is scheduled for Thursday, May 9, 2013, at 5:30 PM, at the Holiday Inn, College Park, Maryland. The topic for this meeting is "Anchoring Existing Terracotta" to be presented by Patrick Morrissey. Please invite your industry contacts including contractors, engineers, material suppliers, owners and co-workers to attend this event. I also ask that you invite any potential members to attend as our Chapter is always excited to welcome new members. Getting together with our colleagues is a

great way to share ideas, learn about our industry, become better informed and get acquainted with others in our industry.

As typical, activities in our Chapter will begin to flourish as our key programs are moving forward. These programs include our Student Scholarship Program, the Outstanding Project Awards, our Annual Golf Outing and our Industry Outreach Program. Information regarding these programs including the Committee Chairs and their contact information can be found on our website at www.icribwchapter.org. Additional information pertaining to these programs and how you can participate will also be presented at the May dinner meeting.

The 25th Anniversary of ICRI 2013 Spring Convention was from March 20-22, 2013 in St. Pete Beach, Florida at the Trade Winds Island Resorts and Spa. During the convention an update of ACI 562 Repair Code was provided, that the code is moving forward for review. The convention overall was a great success with almost achieving a new record crowd of 300 attendees. The action packed dinner party had a live band music and evening fireworks which lit up the sky. I would also like to take this time to congratulate our two new ICRI Fellows, Patrick Morrissey (our May Presenter) and David Rodler (a former BWC President). I would also like to congratulate three Honorary Members; Rick Edelson (another former BWC President), Peter Emmons (BWC member) and Jim McDonald. The BW Chapter was well represented at the National Convention and we hope everyone can attend the 25th Anniversary 2013 Fall Convention from November 13-15, 2013, in Chicago, IL, so we can again, have another good attendance from the BW Chapter.

Remember, our website has the latest information on upcoming events, scholarships and coming soon, the application for Project of the Year, www.icribwchapter.org

Oscar A. Valenzuela, Jr.

2013 ICRI-BWC PRESIDENT
Smislova, Kehnemui & Associates

THE BALTIMORE WASHINGTON CHAPTER OF ICRI

Thursday, May 9, 2013
Holiday Inn College Park
10000 Baltimore Blvd.
College Park, MD
301-345-6700

Exit 25 (Baltimore Blvd. North US 1) off Beltway
Hotel on Left



Advance Reservations by 05-02-13: \$50
After 05-02-13 & Non Members: \$60

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

OUR FEATURED SPEAKER

Patrick Morrissey
ConSpec Associates, Inc.



Patrick Morrissey trained as a Civil Engineer at Manhattan College and the Newark College of Engineering (NJIT). He has worked in the construction industry for almost 40 years, represented products used in rehabilitation for 35 years, and worked specifically on preservation projects for the past 15 years. Pat has served as a technical rep for firms including Cathedral Stone/Jahn Mortars, KEIM Mineral Systems, JOS and now ARB and Tornado non-chemical cleaning systems, and pioneered the use of Cintec Anchors and more recently Ruredil FRCM for sympathetic stabilization and strengthening of historic buildings and bridges. He has served on ASTM and ICRI Technical committees and was a founding member on the three Northeast chapters of ICRI and currently is a board member of APTNE. Pat is currently working with his Alma Mater Manhattan College to complete a course curriculum for a Master's Degree in Preservation Engineering. At the 2013 ICRI National Spring Convention Patrick was honored as a Fellow of ICRI for his service to the institute and our industry.

OUR FEATURED PRESENTATION

This presentation focuses on

TERRA COTTA:

- ***It's history;***
- ***Different types of anchoring systems;***
- ***When to replace or repair;***
- ***And the various materials which comprise terra cotta.***

Case studies will be discussed and the new faux terra cotta will be presented as well.

REGISTRATION DEADLINE IS May 2, 2013

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 May 2, 2013. 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: _____

MEMORIAL

continued from page 1

Construction of the National September 11 Memorial was progressing on schedule to meet its target Sept. 11, 2011, grand opening date, when a big problem emerged concerning the twin fountains and reflecting pools built within the footprints where the North and South towers once stood.

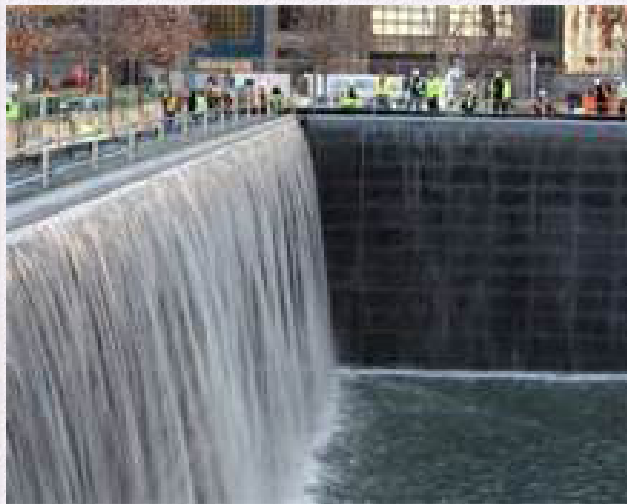
After custom-colored 2 1/2-by-2 1/2-foot concrete pedestal pavers were installed, the fountains were filled with water to an operating depth of 18 inches for a trial run — and disaster struck. The pavers didn't look right. The contrast between them and the fountains' Jet Mist granite walls was "architecturally dreadful,"

"They were not the correct shade of dark gray," agrees Nathan Shapiro, senior project manager for the memorial's general contractor, Lend Lease. "They didn't live up to what the architect had in mind."

It was decided that the pools, which were each nearly an acre in size, would have black bottoms instead to better match the granite. "Replacing the pavers with granite would have been rather expensive," Shapiro says, "so we looked into using a "breathable" coating of some sort."

This property was essential as there could be times when the pools would have to be drained for extended periods for cleaning, maintenance or repairs. The concrete pavers were installed on top of a waterproofing membrane that covered the structural concrete slab. When the pavers weren't fully immersed, water would need a way out in its vapor form without subjecting the pavers to potential damage.

In choosing the specific product or system to use that would produce the desired effect; It's also to test given the unique sets of properties of various systems. Most specifically cure times; effects of climactic conditions. Climatic conditions that have an impact on the rate of evaporation, such as shade, temperature, wind and humidity fluctuations during the course of a day, can affect its final appearance. Once the system is chosen, specific attention must be paid to the scheduling and mixing application methods, crew size, and other aspects.



For this specific project, to minimize the potential for color variations, each application was performed from start to finish at night after the sun had set when conditions were more favorable," he says. In addition, the mixing liquid element of the coating was factory-tinted black.

Thanks to an expanded crew, each coat was completed in roughly five hours rather than the 20 or so apiece it took the first time around.

After a two-day cure, a fluorocarbon-modified siloxane water-repellant penetrating sealer was recommended that has no sheen once dry and makes cementitious surfaces more oil- and stain-resistant.



MEMORIAL

continued from page 4

Though the coating system can withstand rain and some water within hours after application. A three-day cure prior to filling the fountain and exposing the sealer to full immersion in chemically treated water. The end results were solid-black bottoms that seamlessly melded with the pools' solid black granite walls — successfully completing the architect's vision of two voids where the Twin Towers once stood.



Project at a Glance

Client: National September 11 Memorial & Museum

Construction Manager: Port Authority of New York and New Jersey

Project: Install overlays for the fountains at the new National September 11 Memorial General Contractor: Lend Lease, New York City

Senior Project Manager: Nathan Shapiro

Architect: Michael Arad, Handel Architects, New York City

Waterproofing Subcontractor: KJC Waterproofing, Dumont, N.J.

Project Specs: Coat the concrete pavers that line the bottoms of the two World Trade Center memorial fountains and reflecting pools with a breathable, waterproof coating that would match the surrounding black polished granite walls.



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LEGAL COLUMN

VIRGINIA GENERAL ASSEMBLY ISSUES NEW REQUIREMENTS FOR VIRGINIA MECHANIC'S LIENS

Effective July 1, 2013

By Jennifer A. Mahar, Smith Pachter McWhorter PLC

The 2013 Session of the Virginia General Assembly resulted in several amendments to Virginia's Mechanic's Lien Statute. Beginning July 1, 2013, lien claimants who are not in compliance with Virginia's contractor's license requirements may not file mechanic's liens if a contractor's license or certificate was required by law for the work that would be covered by the mechanic's lien. Under the amendments VA Code § 43-3(D) will provide:

A person who performs labor without a valid license or certificate issued by the Board for Contractors pursuant to Chapter 11 (§§ 54.1-1100 *et seq.*) of Title 54.1, or without the proper class of license for the value of the work to be performed, when such a license or certificate is required by law for the labor performed shall not be entitled to a lien pursuant to this section.

This new requirement will apply to general contractors, subcontractors and sub-subcontractors alike. See VA Code §§ 43-3, 43-7, 43-9. Lien claimants will be required to state on their lien forms that they file with land records their license or certificate number issued by the Board for Contractors, the date the license or certificate was issued, and the date such license or certificate expires. See VA Code § 43-4. This information must also be included in any notice required to be provided to a mechanic's lien agent under VA Code § 43-4.01. As part of these amendments, the suggested standard mechanic's lien forms found in the statute have also been updated to include space for this additional required information. See VA Code §§ 43-5, 43-8, 43-10.

Further, beginning July 1, 2013, it will be a Class 5 Felony to file a false lien. VA Code § 18.2-213.2 will provide:

Any person who maliciously files a lien or encumbrance in a public record against the real or personal property of another knowing that such lien or encumbrance is false is guilty of a Class 5 felony. The court in its conviction order or in a separate order, shall direct the clerk of any jurisdiction in which a false lien or encumbrance has been filed to release from record such lien or encumbrance specifically described in the conviction order or separate order, including any notice or memorandum of lien. Such lien or encumbrance shall be deemed invalid and shall be treated as it was never filed.

Conviction of a Class 5 felony can carry a maximum punishment of ten years in prison. To prepare for these upcoming statutory changes, now is a good time to revisit your contractor's licensing status in Virginia to make sure you are in compliance. The General Assembly also passed legislation authorizing the Board for Contractors to establish separate license categories for residential and commercial contractors for Class A, Class B, and Class C contractors. See VA Code §§ 54.1-1106(C), 1108(C) and 1108.2(B).

Do you have a legal issue you would like addressed in a future newsletter? Send me an email with your question to jmahar@smithpachter.com or contact me at 703-847-630. Jennifer, a member of Smith Pachter McWhorter, PLC, focuses her law practice on advising construction industry clients in all phases of project development and construction including contract formation, project management and dispute resolution.



2013 WORLD OF CONCRETE WRAP-UP

The World of Concrete was held once again in sunny Las Vegas at the Las Vegas Convention Center, from February 4th through February 8th. Tens of thousands of people attended educational seminars, visited with hundreds of equipment and product manufacturers in the convention center halls and outdoor display areas, and attended various private parties held throughout the week.

Our very own International Concrete Repair Institute held its traditional WOC Kick-Off Party at the beautiful Chateau Nightclub & Gardens (Paris Las Vegas), and this year's party was focused on celebrating our institutes 25th Anniversary. Hundreds of ICRI members, guests and supporters gathered under the beautiful glittery glow of Las Vegas, enjoying a delicious assortment of food and beverages.

One of our ICRI-BW Chapter member companies, Manganaro Midatlantic, was presented a special award at the World of Concrete/World of Masonry festivities when they received an award for Masonry 2012 Project of The Year – Repair/Rehabilitation, from Masonry Construction Magazine and event sponsor Hanley Woods. The project for which they received the award was the masonry restoration and waterproofing of Dominion Towers Apartments, Arlington, VA.

The WOC 2014, will be held once again at the Las Vegas Convention Center, from January 20th through January 24th, so mark your calendar now!

SAFETY COLUMN

OSHA'S MOST CITED STANDARDS

By David Caple

Every year OSHA publishes statistical data on standards that were cited that year. These statistics can be searched on their website and compiled many different ways including specific industries and company size. I have pulled together some of the information that I think pertains to our industry. First I have listed the top ten standards that were cited for the entire American work force. A quick glance reveals many areas that relate directly to our industry. I have highlighted in blue the standards that are most likely violated by the concrete repair community. Notice they include the top four... Think about your areas of exposure and then take a look at the second set of data. The second list is the top ten highest standards cited with the highest penalties. It is important information in that David Michaels, Assistant Secretary for Labor, Occupational Safety and Health, in a recent OSHA update meeting expressed his strong belief in the effectiveness of inspections and citations. In fact, the statistics he used outlined a 10% reduction in injuries (4% related to the specific citation and 7% non-related) for companies over the next two years following an OSHA citation. Additionally, he cited a 26% reduction in Workers Compensation costs and an average savings of \$350K for the average employer after an inspection.

Most Frequently Cited Standards

The following were the top 10 most frequently cited standards in fiscal year 2012 (October 1, 2011 through September 30, 2012):

1. Fall protection, construction ([29 CFR 1926.501](#))
2. Hazard communication standard, general industry ([29 CFR 1910.1200](#))
3. Scaffolding, general requirements, construction ([29 CFR 1926.451](#))
4. Respiratory protection, general industry ([29 CFR 1910.134](#))
5. Control of hazardous energy (lockout/tagout), general industry ([29 CFR 1910.147](#))
6. Powered industrial trucks, general industry ([29 CFR 1910.178](#))
7. Electrical, wiring methods, components and equipment, general industry ([29 CFR 1910.305](#))
8. Ladders, construction ([29 CFR 1926.1053](#))
9. Machines, general requirements, general industry ([29 CFR 1910.212](#))
10. Electrical systems design, general requirements, general industry ([29 CFR 1910.303](#))

Highest Monetary Penalties for Cited Standards

The following are the standards for which OSHA assessed the highest penalties in fiscal year 2012 (October 1, 2011 through September 30, 2012):

1. Fall protection, construction
2. Scaffolding, general requirements, construction
3. Control of hazardous energy (lockout/tagout), general industry
4. Machines, general requirements, general industry
5. Powered industrial trucks, general industry
6. Ladders, construction
7. Electrical, wiring methods, components and equipment, general industry
8. Process safety management of highly hazardous chemicals
9. Hazard communication standard, general industry
10. Electrical systems design, general requirements, general industry

Out of the over 41,000 inspections performed by OSHA during this period of time 55% of them were of the construction industry. I have taken the data for the Standard Industrial Classification (SIC Code) the majority of repair contractors fall in (17 – Construction Special Trade Contractors) and placed the information in a table. In our class alone there was a total of 4,223 Inspections which resulted in 11,407 Citations, and a total of \$21,404,764.00 in penalties. Additional data can be found on specific regions and states. These numbers reflect Federal OSHA statistics only.

Listed below are the top 20 standards which were cited by Federal OSHA for the specified SIC during the period October 2011 through September 2012. Penalties shown reflect current rather than initial amounts.

| Standard | Description | # Inspections | # Citations | \$ Penalties |
|-----------|---|---------------|-------------|--------------|
| 1926.501 | Duty to Have Fall Protection | 2039 | 2165 | \$6,598,094 |
| 1926.451 | Scaffolds – General Requirements | 835 | 1892 | \$3,884,798 |
| 1926.1053 | Ladders | 726 | 926 | \$1,555,963 |
| 1926.503 | Fall Protection – Training | 568 | 591 | \$663,300 |
| 1910.1200 | Hazard Communication | 226 | 412 | \$193,953 |
| 1926.100 | Head Protection | 398 | 405 | \$602,684 |
| 1926.102 | Eye and Face Protection | 378 | 382 | \$672,574 |
| 1926.453 | Aerial Lifts | 293 | 338 | \$734,747 |
| 1926.20 | General Safety and Health Provisions | 265 | 298 | \$428,983 |
| 1926.405 | Electrical – Wiring Methods | 192 | 243 | \$233,843 |
| 1926.454 | Scaffold – Training | 210 | 225 | \$239,177 |
| 1926.404 | Electrical – Wiring Design and Protection | 180 | 220 | \$302,827 |
| 1926.651 | Excavations | 115 | 205 | \$502,380 |
| 1926.502 | Fall Protection – Systems Criteria | 144 | 200 | \$334,632 |
| 1910.134 | Respiratory Protection | 91 | 195 | \$134,281 |
| 1926.403 | Electrical – General Requirements | 143 | 164 | \$223,709 |
| 1926.21 | Safety Training and Education | 155 | 159 | \$229,884 |
| 1926.1060 | Stairways & Ladders - Training | 145 | 149 | \$125,115 |
| 1926.452 | Scaffolds – Additional Specific Scaffold Requirements | 125 | 144 | \$210,339 |
| 1926.652 | Excavations – Protective Systems | 105 | 123 | \$460,356 |

After reviewing this data it's important to keep in mind if you recognize any of these areas as potential for your company to receive a citation and you are working in the Mid-Atlantic area you are on the radar. Working in the Baltimore/Washington region also exposes companies to multiple agencies in addition to Federal OSHA, due to state run plans, such as MOSH, VOSH, and the EPA. The nature of the citations and penalties at the very least inform us of major areas of improvement in our industry and for the small contractor, a good starting point, when considering the need to add a health and safety plan to the company policy and program.

For further assistance or to recommend a topic for discussion in a future publication of The Aggregate contact me at ConcreteRepairBW@aol.com



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GOLD



Upcoming Chapter Events

- May 9, 2013 ICRI-BWC 2nd Quarter Dinner Meeting**
Location Holiday Inn, College Park, MD
- Sept. 12, 2013 ICRI-BWC 3rd Quarter Dinner Meeting**
Location Snyder's Willow Grove, Baltimore, MD
- Oct. 3, 2013 22nd Annual Golf Tournament**
Location TBD
- Nov. 7, 2013 2013 Awards Banquet**
Location The Villa, Beltsville, MD
- Dec. 5, 2013 2013 Fall Technical Seminars**
Location TBD

Upcoming National Events

- Oct. 8-9, 2013 ICRI CERTIFICATION CLASS**
*Concrete Slab Moisture Testing
October 8/9, 2013
Baltimore, MD*
- Nov. 13-15, 2013 ICRI 2013 FALL CONVENTION**
*ICRI Celebrates its 25th Anniversary—
"Looking Back"
Fairmont Chicago
Chicago, IL*

2013 ICRI SPRING CONVENTION WRITE-UP

By Brian McCabe

As the delegate for the ICRI Baltimore/Washington Chapter, I had the pleasure to attend the 2013 ICRI Spring Convention at the Tradewinds Island Resort in St. Pete's Beach, Florida. While the weather was a little on the chilly side with some scattered rain, there was plenty of good weather to enjoy between events and everyone seemed to thoroughly enjoy the beachfront accommodations. The 25th Anniversary Party was awesome and the band had the crowd rocking.

Recognition Luncheon:

Congratulations to everyone in the B/W Chapter for a successful 2012 year as we were able to regain Chapter of the Year status. The contributions of all who helped throughout the year with the contributing events/milestones certainly paid off. Additionally, it appears that we had a substantial presence at the Convention from our Chapter, a point that was recognized during the luncheon. Welcome to Bud Earley as the new President. Two new ICRI Fellows were announced (Patrick Morrissey & David Rodler) and three Honorary Members (Rick Edelson, Peter Emmons & Jim McDonald) were honored for their dedication and service to ICRI over the years. The Distinguished Service Award went to Tree Tietz from the Southwest Florida Chapter who was instrumental in reviving the chapter from near collapse to "Most Improved Chapter". A new record was set at a little under three hundred attendees, with a good showing of Student Chapter attendees as well.

Inter-Chapter Luncheon:

The attendance at the inter-chapter luncheon was a little lighter than I have seen previously but was very productive. There seemed to be quite a few new faces that presented new perspectives and comments. This was consistent as a whole for the convention. Good news! While the "old guys" are greatly appreciated, it was nice to see some new people who are eager to participate. The format for the luncheon was open w/ Dale as the MC. Much of the discussion was directed toward interest in future themes, chapter events/fundraising and promoting ICRI as a whole. Additionally, the new ACI 562 Repair Code was discussed and its impact on the industry.

Chapters Committee Meeting:

- The meeting was well attended, although missing a couple of people (it was a sunny Friday afternoon). Quorum was confirmed and minutes were accepted w/ no changes. Only the "members" are eligible to vote, delegates were non-voting guests.
- Considerable time was spent discussing the importance of the Chapter Roundtable Program. The next one is scheduled for Oct. 2013 in Chicago for the West region. B/W region is scheduled for Spring 2014. The importance of sending a representative to these forums was stressed. Ideally, it will be a different person each time so that new ideas can be presented. The forum is typically a 2 day event, Wed. & Thurs. Fundraising, symposium topics, speakers/presentations, recruiting, etc., are all topics that are discussed and the shared ideas can help all chapters.
- The Chapter Delegate program remains intact with additional points issued for rotating in fresh people. We need to start working on this for Fall. Who wants to volunteer!
- The Inter-Chapter luncheon was briefly discussed and the B/W Chapter was again congratulated. Kudos were also offered by the Delaware Chapter delegate for our ability to get new people involved on the Board and not get stagnant. Smaller chapters struggle with this simply because of the smaller number of members. We need to continue to encourage new people to get involved on the Board and on committees.
- Possible topics for the Fall 2013 Inter-Chapter Luncheon were discussed. A popular topic was a re-cap of Roundtable results.
- Progress on policy manuals will continue in the Fall.
- A new display mobile was purchased for \$1200 and is available for use.
- Sales of publications/guidelines seem to be holding steady. Ideas were discussed regarding discounts for bulk purchases (by 10 get 1 free, etc.). We need to continue to push the sale of publications at our events. These can be fundraisers as Chapters get ½ price discount.
- Goal for membership total by end of year is 2100. We are currently 40 short. Let's go get some new members.

Overall, the convention appeared to be a great success. The technical sessions were informative and the technical committees continue to progress their agendas. I was very enthused about the new ACI 562 Repair Code and the planned future contributions from ICRI.

The venue was awesome, speakers were excellent, exhibitors were great as always and new people attended for a record crowd. Everyone seemed to leave with an increased energy and commitment to ICRI that should be spread to the local chapters.



Keith Kesner - Discussing ACI 562



New Honorary Member Rick Edleson



New ICRI Fellow - David Rodler



New Honorary Member Peter Emmons



BALTIMORE WASHINGTON CHAPTER WINS!!!

2ND QUARTER MEETING WRITE-UP

2013 ANNUAL JOINT DINNER MEETING ACI – NATIONAL CAPITAL CHAPTER

&

ICRI – BALTIMORE WASHINGTON CHAPTER

February 12, 2013

The February Program of the ACI - National Capital Chapter & ICRI-BW Chapter Joint Meeting was hosted at Maggiano's Little Italy in McLean, VA., with 143 total attendees. Mark Wierciszewski, P.E., a materials engineer for the Port authority of New York and New Jersey's Material Engineering Unit, presented a technical program titled **World Trade Center Reconstruction – Controlling In-Situ Concrete Temperatures for High Strength, Mass Concrete**. His presentation consisted of a brief overview of the entire World Trade Center site and the various projects involved with a focus on Tower One, also known as The Freedom Tower. Mr. Wierciszewski discussed the various blending of cementitious materials in an attempt to reduce in-place, mass concrete temperatures and blending aggregates to achieve the modulus of elasticity requirements at Tower One. His discussion included an overview of the dimensions and structural systems for the building with a focus on the most technical concrete construction aspects and various mock-ups casted by the supplier's plant to provide the required information to optimize the mix design for production, construction requirements and achieve a durable and sustainable structure. For example, the core shear wall design requirements were for 14 ksi concrete after cure time of 56 days. In an attempt to achieve this requirement various mock-ups and mix designs of cementitious materials were cast to achieve these requirements and how internal cure temperature contribute to the overall concrete strength.



ACI-NCC President thanking our presenter



ACI- NCC President - Danny Berend



ICRI-BWC Past President - Pat O'Malley



Presenter - Mark Wierciszewski, P.E.



ICRI- BWC President – Oscar Valenzuela



ACI-NCC President with New ACI-NCC President



Mark Wierciszewski discusses the WTC

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