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LOCAL AND NATIONAL

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SPONSORSEE PAGE 11 FOR OUR
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Oscar Valenzuela
Smislova, Kehnemui & Associates
oscarv@skaengineers.com

VICE-PRESIDENT

Mike Prizzi
Metro Sealant & Waterproofing Supply
mikeprizzi@metrosealant.com

SECRETARY

Cindy Garman
Smislova, Kehnemui & Associates
cindyg@skaengineers.com

TREASURER

Sebastian Janik
Tadger-Cohen-Edelson, Associates, Inc.
sjanik@Tadgerco.com

PAST PRESIDENT

Pat O'Malley
Concrete Protection & Restoration, Inc.
pomalley@c-p-rinc.comHOTEL MONACO
HISTORIC CORNICE REPAIR

The Hotel Monaco Historic Cornice Repair project was an approximately \$200,000 project completed expeditiously in three months to repair a seven foot long portion of the decorative marble lower cornice which fell from the building suddenly on July 15, 2010. This historic landmark was formerly the original US General Post Office and is located in Washington, DC. The project involved a series of initial investigations, specialized testing of the historic marble and mortar, installation of new hand-carved replacement cornice elements utilizing marble from the original quarry, and other miscellaneous repairs to the marble façade in an effort to arrest detrimental water infiltration. Water migration through cracks in the marble throughout many freeze/thaw cycles was determined to have caused the failure; atmospheric staining was present on over eighty percent of the length of the break. Two horizontal slabs of marble make up the cornice; the lower cornice (10" thick) consists of decorative dentils and rosettes; the upper cornice (8" thick) features a decorative profile. Both

see HOTEL - page 4

THE AGGREGATE INSIDE

2013 ICRI-BWC/ACI Joint Dinner Meeting

WORLD TRADE CENTER RECONSTRUCTION

February 12, 2013 - McLean, VA
Join us at Maggiano's Little Italy!

see page 3

2012 National ICRI Fall Convention!

Find Out What Happened!

see page 9

We Have a New Board of Directors!

Check Us Out!

see page 5

ICRI-BWC Fall Tech. Seminars Wrap-Up

The seminars were well attended with over 90 design professionals, contractors, material representatives, owners and students!

see page PB

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 DC Chapter ICRI members and families! I hope that everyone had an enjoyable holiday season and hope that 2013 will bring you all good health, happiness

and prosperity.

I would like to begin by thanking Patrick O'Malley, the Chapter's Past President, as well as the 2012 Board Members for making 2012 a successful year for our Chapter. Under Pat's leadership, the Board continued to focus on the Chapter's key programs. These programs include achieving the Chapter of the Year status, increasing the Chapters' membership, providing scholarships to ICRI members and their families, continuing to compile our Chapter History, expanding our Sponsorship Program, and the Industry Outreach program by continuing our work with Habitat for Humanity and Carver High School.

As outlined in our Mission Statement, we need to continue to be a resource for education and information regarding quality repairs and restoration. Our purpose should be to foster the growth of our organization and continue to educate those in this industry. 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. The Board met on January 10th and set our goals for the upcoming year. 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 to provide scholarship opportunities for our membership
- Utilize publications, meetings and networking opportunities for educational purposes
- Provide at least one social activity for our membership

At this I would like to introduce you to the Board members for 2013 year and thank them for their time and efforts. Board Members for 2013 are Mike

Prizzi (Vice President), Cindy Garman (Secretary), Sebastian Janik (Treasurer), Brian Greene, Neil Savitch, Brian McCabe, Sean Fisher, Shannon Bentz, Larry Burkhardt, David Caple, Adam Hibshman and Robert Radcliff. I would also like to thank two more members that contribute a lot of time and energy to our organization, Tom Ouska and Jay Whitton.

During my visit to the ICRI National Convention in Las Palmas, California last fall, I learned that many ICRI Chapters sometimes struggle to obtain the participation that makes our Chapter successful. Our Chapter is successful as a result of the hard work, dedication and participation by our membership in support of our events and programs. I thank you all for your continuing support to our Chapter. This year I look forward to even more involvement from our membership 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 12th. The meeting will be held at Maggiano's Little Italy in the Tyson's Galleria. Our scheduled speaker is Mark Wierciszewski, P.E. and the discussion topic is "World Trade Center Reconstruction – Controlling In-Situ Concrete Temperatures for High Strength, Mass Concrete". We look forward to seeing you there.

Information pertaining to our Chapter can be found on our website at www.icribwchapter.org. The website is an outstanding resource regarding updates, activities and events that are scheduled, our scholarship program, sponsorship opportunities, technical information, publications, and contact information for the Board of Directors.

Finally, I would like to thank you all for this opportunity to serve you. It is an honor to serve as your Chapter President and I look forward to a successful year. If you have any questions, comments or suggestions, please feel free to contact me.

Oscar A. Valenzuela, Jr.

2013 ICRI-BWC PRESIDENT
Smislova, Kehnemui & Associates

THE BALTIMORE WASHINGTON CHAPTER OF ICRI

TUESDAY, FEBRUARY 12, 2013

Maggiano's Little Italy

2001 International Dr, McLean, VA 22102

703-356-9000

Tysons Galleria



**ICRI - ACI
FEB 2013
JOINT
DINNER
MEETING**



American Concrete Institute®
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Advance Reservations by 02-05-13:	\$50
After 02-05-13 & Non Members:	\$60
4:00	Board Meeting
5:30	Social Hour
6:30	Dinner & Presentation

"WORLD TRADE CENTER RECONSTRUCTION - CONTROLLING IN- SITU CONCRETE TEMPERATURES FOR HIGH STRENGTH, MASS CONCRETE"

OUR FEATURED SPEAKER

Mark Wierciszewski, P.E.
Port Authority of NY & NJ



Mark Wierciszewski is a materials engineer working for the Port Authority of NY & NJ Materials Engineering Unit. He began his career assisting various laboratory supervisors, including those for Portland cement concrete, bituminous concrete and soils. In addition to performing laboratory work, Mark also performed field and plant inspections for various Portland cement concrete and bituminous concrete projects; performed numerous condition surveys; managed PA contracts for aviation facilities; managed the PA laboratories AASHTO Accreditation program from 1998-2005; became Supervisor of the Structural Steel Group within the Port Authority Materials Engineering Unit;

Since 2006, Mark has been managing the Materials Engineering Unit's effort for the WTC Restoration project, including work for Tower One, the Memorial/Museum, Transportation Hub, Vehicular Security Center, Central Chiller Plant and Streets & Utilities Infrastructure projects.

Mark has been with The Port Authority of NY & NJ for eighteen years, the entire time spent with the Materials Engineering Unit.

OUR FEATURED PRESENTATION

The presentation will consist of

- A brief overview of the entire World Trade Center site and the projects involved with a focus on Tower One, also known as, The Freedom Tower;
- An overview of the dimensions and structural system for the building, focusing on the most technical concrete construction aspects;
- A discussion of blending cementitious materials to reduce in-place, mass concrete temperatures and blending aggregates to achieve the modulus of elasticity requirements at Tower One, as well as, enhancing pumping operations;
- A discussion of mock-ups cast at the supplier's plant and the information we learned in order to optimize the mix design for production to provide assurance we would meet all the contract requirements and achieve a durable and sustainable structure well into the future;
- A presentation of the 14ksi mix design used in production of core shear walls and the average test results obtained in production;
- Conclusion - the many lessons learned for the project, fast facts and quantities of materials used for Tower One with photos from the project.

REGISTRATION DEADLINE IS February 5, 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 February 5, 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

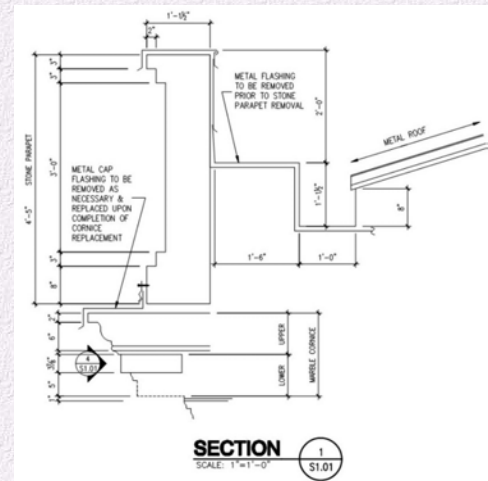
Name: _____	Payment: <input type="checkbox"/> Enclosed <input type="checkbox"/> Online
Company: _____	(Please include receipt)
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Email: _____	
Number of Guests: _____	
Guest Names: _____	
Guest's Company: _____	

HOTEL

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slabs are essentially counter-weighted by a parapet capstone, which had to be carefully removed and reinstalled upon installation of the replacement cornice slabs. In addition to replacing the section of lower cornice which fell, two other slabs that were significantly cracked were proactively replaced.

Highlights of the project included the acquisition of appropriately matched marble; the contractor had access to slabs of the original marble, salvaged from another building in the area that had been dismantled. All three replacement cornice slabs, as well as a number of replacement rosettes, were hand-carved and stainless steel pins were embedded in epoxy to align with holes drilled into the existing surrounding marble. Rigging and craning of the replacement slabs was a feat, which required seamless coordination and a precise fit between the fixed boundaries of the adjacent cornice elements.



Cornice and parapet wall assembly profile.

PROJECT DESCRIPTION

HISTORIC BACKGROUND & DESCRIPTION OF STRUCTURE:



Lower cornice immediately after failure; note water staining along majority of break, as well as along the vertical head joint in the upper cornice above.

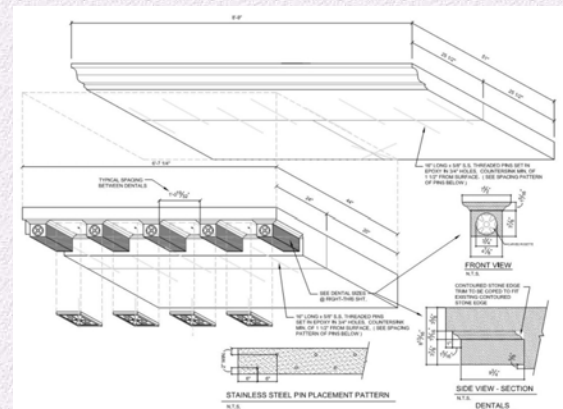
The Hotel Monaco is a National Historic Landmark, formerly the US General Post Office, located in Washington, DC. It was built in two phases between 1839 and 1866. The original building was commissioned by President Andrew Jackson and designed by Robert Mills, the same architect who later designed the Washington Monument. Mills selected an all-marble clad exterior, and the building became the first in the capital of its kind. The second phase is referred to as the General Post Office extension; the same architect who designed the Capitol Dome, Thomas Ustick Walter, oversaw its construction. A number of government agencies have occupied the building since the US General Post Office relocated in 1897, including the General Land Office, the Tariff Commission, and the U.S. International Trade Commission. The building was converted into a hotel in 2002. The three-story hotel is bounded by F and E Streets along the North and South elevations respectively, and 7th and 8th Streets along the East and West elevations respectively.

Elements of the marble façade are largely reflective of Neoclassical and Palladian architecture, including a Roman classical entablature with a plain frieze and dentil molded cornice, supported by elevated Corinthian columns and pilasters. It is presumed that the marble exterior cladding is supported by solid masonry walls to the interior. Masonry is utilized extensively throughout the interior, including true brick masonry vaulting.

The cornice where the failure and subsequent repair occurred is located at the roof level toward the South end of the East (7th Street) elevation. There are two horizontal slabs that form the cornice: the upper part of the cornice is eight inches thick and features a decorative profile; the lower part of the cornice is ten inches thick and features dentils and rosette medallions attached to the underside of the cornice between dentils. A large capstone, which forms the parapet wall, sits atop the cornice, acting as a counterweight. The cornice projects approximately two feet from the face of the parapet capstone. Both the parapet and cornice ledge are flashed with copper sheet flashing.

INITIAL INVESTIGATION & CAUSE OF FAILURE:

On July 15, 2010, an approximately 6'-8" long section of the lower cornice containing five dentils fell suddenly. The marble failed approximately eleven inches back from the face; the remaining surrounding marble was determined to be in sound condition. Initial investigations revealed that the failure was due to water infiltration through cracked and



Isometric repair details for upper and lower cornice where failure occurred.

con't on page 6

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Oscar Valenzuela

Smislova, Kehnemui & Associates
(301) 881-1441
oscarv@skaengineers.com

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Metro Sealant & Waterproofing Supply
(410) 789-7400
mikeprizzi@metrosealant.com

SECRETARY

Cindy Garman

Smislova, Kehnemui & Associates
(301) 881-1441
cindyg@skaengineers.com

TREASURER

Sebastian Janik

Tadger-Cohen-Edelson, Associates, Inc.
(301) 587-1820
sjanik@tadgerco.com

PAST PRESIDENT

Pat O'Malley

Concrete Protection & Restoration, Inc.
(410) 298-2669
pomalley@c-p-rinc.com

BOARD MEMBERS

Brian Greene

Kenseal Construction Products Corp.
(703) 263-0730
brian@kenseal.com

Neil Savitch

Construction Specialties Group
(703) 670-5300
conspec@comcast.net

Brian McCabe

Concrete Protection & Restoration, Inc.
(410) 298-2669
bmccabe@c-p-rinc.com

Sean Fisher

Prepcon, Inc.
(410) 265-6722
spfisher@prepcon.com

Shannon Bentz

Desman Associates
(703) 448-1190
sbentz@desman.com

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Conproco Corp
(800) 258-3500
lburkhardt@conproco.com

BOARD MEMBERS

David Caple

Pinnacle Safety Network, LLC
(443) 375-1233
d.p.caple@gmail.com

Adam Hibshman

Valcourt Exterior Building Services
(301) 262-7880
ahibshman@valcourt.net

Robert A. Radcliff, P.E.

Engineering & Technical Consultants, Inc.
(410) 740-2233
bradcliff@etc-web.com

HOTEL

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open mortar joints in the parapet capstone and cornice over multiple freeze/thaw cycles, which caused an interior crack to develop. Atmospheric staining was present along eighty percent of the length of the break, suggesting that the crack had been there for some time prior to the failure. As the crack expanded and separated,



Epoxy and stainless steel dowels in place for 2-piece connection of upper cornice replacement.



Fabrication crew secures clamps to hold front and rear pieces of upper cornice replacement stone together until epoxy cures. Crew also checks for positive drainage slope.

the unaffected adjacent marble could no longer support the weight of cantilevered marble that had separated, and eventually broke. The capstone was found secure, plumb and level after the failure; there was no evidence that it had settled or otherwise moved as a result of the cornice failure below. The initial investigation revealed other nearby elements of the cornice in need of repair, specifically the upper cornice slab directly above the failed cornice was observed to have a significant crack that extended through its full thickness and a reentrant corner piece of the lower cornice had a large crack, both evidence of a similar delaminated condition due to moisture infiltration. There were also a number of rosette medallions found missing; fifty percent of those remaining were severely weathered and loose.

Pipe scaffolding was immediately erected along the façade where repairs were necessary to stabilize elements of the marble façade. While access was provided to the façade in this area, the owner initiated a repair program that included the required repairs to cornice elements as described above, as well as a number of other proactive repairs, including repointing, Dutchman repairs, face patching, epoxy crack injection and pinning, and stabilization of loose and/or exfoliating façade elements. General cleaning of the marble façade within the repair area was also included as part of the scope of work.

SPECIALIZED TESTING & RESULTS:

Samples of marble and mortar were collected and transferred to a specialized historic testing agency to aid in the selection of replacement marble and repair design decisions. During the sample collection, boroscopic inspections were performed to determine the depth of embedment of the marble and overall thickness of the cornice/parapet wall assembly.

The goal of the specialized testing of the existing marble was to understand its physical and performance-related properties, as a preliminary basis of comparison against published data of the potential replacement marble. Tests performed included compressive strength per ASTM C170, density, and absorption per ASTM C97. Results of these tests concluded high compressive strength and low absorptivity, rendering the replacement marbles as possible candidates (White Georgia, Alabama White, and Vermont Imperial Danby). One sample was subjected to petrographic analysis per ASTM C295 to understand characteristics of the stone which might be indicators of future failure. The results determined that there were no



Parapet capstone hoisted to access cornice replacement area.



Lower cornice replacement piece hoisted; note attention to detail in carved dentils.

HOTEL*continued from page 6*

inherent flaws or weaknesses in the original stone, suggesting localized failure. Historic research revealed that the most likely source of the original marble was from the Beaver Dam quarry in Cockeysville, Maryland.

Petrographic analysis of the mortar per ASTM C1324 was performed in order to determine the type, composition, quantity and mix ratio of the binder and aggregates for selection of an appropriate replacement mortar recipe. According to the analysis, the sample contained a cementitious binder, indicating that the sample may have been unknowingly collected from an area of more modern repointing. Portland cement was first manufactured in the US circa 1872, and was not commonly used until the early twentieth century. The construction dates of the Hotel Monaco suggest an original mortar based on lime. Therefore, a second sample was gathered from a deeper portion of the building. The results led to the recommendation of a mortar recipe with some Portland cement, since the low compressive strength of straight lime mortar would not be appropriate for the structural needs of the project and exposed locations of the repairs. "Type O" and "Type N" mortars were recommended for the repointing and structural repairs respectively, with a basic ratio of 3:1 between aggregate and binder.



Upper cornice replacement piece lowered into position atop already installed lower cornice replacement piece.

ACQUISITION AND TESTING OF REPLACEMENT MARBLE:

Upon award of a contract in November, 2010, the contractor indicated access to large pieces of marble from the original and now closed source, the Beaver Dam Quarry in Cockeysville, Maryland, salvaged from a dismantled building in the area. The sample presented was visually the best match; however further testing was needed to confirm that its physical properties would render it an acceptable replacement source. Tests performed on the Beaver Dam sample found that the compressive strength, density, and flexural strength were comparable to both the original marble on the Hotel Monaco, and the established equivalent, White Georgia. Absorption of the Beaver Dam marble was notably lower, and therefore improved from the original marble, making it less prone to exfoliation due to freeze/thaw cycles. The engineer determined the Beaver Dam marble to be an acceptable match. This locally and readily available source ultimately afforded the owner a contract cost savings of \$30,000 and reduced the construction schedule by forty percent, eliminating the additional eight weeks of lead time that would have otherwise been required to procure the White Georgia marble.

REPAIR DESIGN & EXECUTION:

Project specifications following historic treatment procedures and repair drawings were issued in October, 2010; an award was made and mobilization took place shortly thereafter, in November, 2010. Repairs were specified to be completed within the boundaries of the pipe scaffolding, an approximately 110' section of the East façade. Cold weather protection was installed over the entire scaffolding; heaters within the tented scaffolding were utilized to maintain appropriate temperatures for work to proceed as scheduled through the cold winter months.

The contractor began removing additional metal cap flashings at the parapet and over the cornice ledge in order to fully access the repair area and verify field dimensions of the cornice pieces to be replaced.



Completed upper and lower cornice replacement where failure occurred. Flashing re-installation underway.

Unforeseen conditions were met behind the parapet wall, where an approximately eighteen inch wide brick masonry wall was discovered beneath the flashing, sitting directly atop the back span portion of the cornice assembly. Removal and subsequent replacement of the brick wall was required to access and remove the parapet capstone.

Since there was virtually no lead time for the locally available salvaged Beaver Dam marble, fabrication of the replacement pieces began almost immediately; shop drawings and supporting engineering calculations were generated and approved expeditiously. Slabs of the salvaged marble were not available in sizes large enough to fabricate the full fifty-one inch depth of the upper cornice slab, nor the forty-four inch depth of the lower cornice slab; therefore, replacement cornice pieces were fabricated as two separate pieces, and were doweled and epoxied

together prior to site delivery. The dowel joints were located such that they would be embedded in the cornice assembly and not visible to the exterior. This configuration enabled the fabricator to provide a slight cant on the front portion of the upper cornice to create a positive drainage slope atop the cornice

HOTEL

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ledge. Stainless steel dowels were embedded and grouted in epoxy eight inches on each side in a staggered configuration, approximately nine inches on-center. Pull tests were performed by the fabricator, confirming that the dowels have the capacity to transfer the design loads through the abutted pieces of marble. A similar procedure ensued for fabrication of a replacement piece for the reentrant corner of the lower cornice; three pieces were doweled and epoxied together to form the entire replacement piece.

While fabrication of the replacement cornice pieces and rosette medallions was underway, crews in the field meticulously removed the unstable portions of the cornice. Limits of replacement were carefully selected to minimize the number of to be removed in order to access elements beneath. Removal was



Cracked reentrant corner of the lower cornice prior to replacement.



The stone carver displaying one of the replacement rosette medallions that he hand-carved to match the existing.



Reentrant corner lower cornice replaced; replacement rosette medallions anchored with stainless steel pins and epoxy on soffit between dentils.

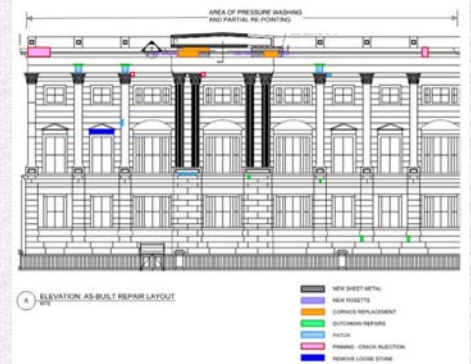
trauma to the adjacent stone in order to preserve as much of the original stone as possible. The material was cored away, with the remaining stone gently chipped, and finished with a diamond cup wheel on a grinder. Inside corners were squared using a small carving chisel.

The contractor utilized temporary anchors to hoist the slabs for transport and for craning during installation, which took place as scheduled in January, 2010. Upon successful installation of the cornice pieces, sheet metal flashings were restored in a better configuration: joints between the sheets were fabricated to channel water away on either side of the joint such that there is redundancy and the sealant joint is not the only means of waterproofing.

PROJECT RESULTS:

The Hotel Monaco Historic Cornice Repair project was a good case study on the detrimental effects of water infiltration and freeze/thaw cycles over time on a marble-clad building. Historic facades, although typically robust, rely heavily on the maintenance of auxiliary components, such as mortar joints and flashings. It is easy for the early stages of deterioration to go unnoticed; as the crack that caused this particular failure formed from within the stone.

This project is noteworthy due to the coordination and efforts that enabled an already fast-tracked quality historic repair to become even



Overall as-built map of repairs including cornice replacements.



Overall completed historic cornice repairs.

more expedited upon procurement of the ideal replacement marble, mined from the original source, and immediately available. The owner was delighted in the associated schedule and cost savings, both much unanticipated in this type of emergency historic repair scenario. The marble cornice replacements were tricky repairs, as the tolerances were very tight and required extreme precision and careful preparation; the contractor's fabrication and execution of these repairs was exceptional. The owner now has peace of mind that the façade is secure, potential falling debris hazards have been stabilized, and furthermore, the repairs go unnoticed, as they were seamlessly integrated into the original historic marble façade.

2012 NATIONAL ICRI FALL CONVENTION

The 2012 National ICRI Fall Convention Seminar was held in beautiful Rancho Mirage in California at the Rancho Las Palmas Resort & Spa. The main topic of the convention was Life-Cycle Repair – Sustainability from Wednesday, November 7th to Saturday, November 10th. Both technical seminars and committee meetings were held from Wednesday to Saturday. The 20th Annual National ICRI 2012 Project Awards Reception and Banquet was held on Thursday evening. Three local chapter members won national awards this year; Award of Merit for a High Rise Project by Tradger Cohen Edelson Associates, Award of Excellence in Parking Structures by Restoration East, LLC and Award of Excellence for a Historic Project by Smislova, Kehnemui & Associates, P.A. Congrats to our local chapter members as well as everyone that entered. The competition was impressive this year.

During the inter-chapter luncheon, the main topic of discussion was "What fund raising events does your chapter perform?" Some chapters held silent auctions that produced thousands of dollars while others had a casino night. Everyone seemed to have a golf outing at least once a year. The one item that remained consistent throughout the room is that experimenting is the only way to find out if a different event will work for your local chapter. For example, a new chapter charter, the South Central Texas Chapter, will be hosting BBQ cook-offs and rodeos as a way to raise funds and chapter awareness. During the committee meeting, the Roundtable Program was discussed and has been successful with members asking to attend again. The committee announced the applications for the 2012 Chapter Awards Applications are available on the website and due February 15, 2013.

2012 FALL TECHNICAL SEMINARS WRAP-UP

On December 6, 2012, the ICRI Baltimore Washington Chapter gathered for their annual Fall Seminar.

The event was held at Concrete Protection & Restoration's warehouse in Baltimore, Maryland. This was the final event for the year and the event was co-sponsored by the Maryland Chapter of ACI. The theme for the all-day seminar was "High-Rise Repairs".

The seminar was well attended with a total of 101 attendees that included design professionals, contractors, material suppliers, owners and students. As part of the Chapter's ongoing outreach program with a local Vocational School, the Chapter sponsored seven (7) Carver High School students as well as their masonry Instructor.

The day began with a continental breakfast as the membership gathered to discuss recent personal and professional activities. Once everyone was registered, President Patrick O'Malley then addressed the group regarding the schedule for the day as well as upcoming activities scheduled for the Chapter.

The presentation topics for the day included the following:

- "Condition Assessment of Masonry and Concrete Structures" (presented by Brian Daley and Brent Stephens, PE)
- "Safety Considerations in High-Rise Construction; The Focus Four" (presented by Chuck Brienza)
- "Repair Challenges in Facade Rehabilitations" (presented by Steve Royer and Brent Stephens, PE)
- "Waterproofing Your Masonry and Concrete High Rise Structure; Coatings, Sealants and Membranes" (presented by David Ford)
- "Railings - Repair, Replace, Imbedded, Surface Mounted, Building Codes and Much More"(presented by Todd Wegrich)
- "High-Rise Project Profiles" (presented by Matt Nachman, PE)

At the conclusion of the presentations, the group gathered for a live, hands-on demonstration regarding fall protection.

The program was a huge success with the Chapter receiving positive feedback from the attendees! The ICRI Baltimore Washington Chapter is looking forward to hosting another successful program for 2013.

see Pictures page 10

Pictures

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David Ford, P.E., Walter P. Moore



Pat O'Malley Makes Introductions



High-Rise Project Profiles



Fall Test



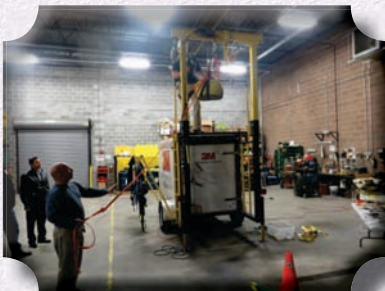
Brent Stephens, P.E. SK&A



Matt Nachman, P.E., TCE



General Assembly



Preparing the Harness Test



Explaining the Demonstration



Steve Royer, CP&R



Introduction Presentation



Robert Alt, 3M



Fall Test

CHAPTER SPONSORS

PLATINUM



GOLD



Upcoming Chapter Events

- Feb. 12, 2013 ICRI-BWC/ACI Joint Dinner Meeting**
*Maggiano's Little Italy
McLean, VA-22102*
- May 9, 2013 ICRI-BWC 2nd Quarter Dinner Meeting**
Location TBD
- Sept. 12, 2013 ICRI-BWC 3rd Quarter Dinner Meeting**
Location TBD
- Oct. 3, 2013 22nd Annual Golf Tournament**
Location TBD
- May 9, 2013 2013 Awards Banquet**
Location TBD
- Dec. 5, 2013 2013 Fall Technical Seminars**
Location TBD

Upcoming National Events

- Feb. 4, 2013 ICRI 2013 WOC KICK-OFF PARTY**
*Chateau Nightclub & Gardens
Las Vegas, NV*
- Mar. 20-22, 2013 ICRI 2013 SPRING CONVENTION**
*ICRI celebrates its 25th anniversary! -
"Looking Ahead"*
*Tradewinds Islands Resorts
St. Pete Beach, FL*
- Nov. 13-15, 2013 ICRI 2013 FALL CONVENTION**
*ICRI Celebrates its 25th Anniversary—
"Looking Back"*
*Fairmont Chicago
Chicago, IL*
- Oct. 8-9, 2013 ICRI CERTIFICATION CLASS**
*Concrete Slab Moisture Testing
October 8/9, 2013
Baltimore, MD area*

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Patrick McGinty

Parking and Restoration Specialist
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Telephone: 410-643-4046
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Email: patrick.mcginity@basf.com
www.buildingsystems.basf.com



Tom Ouska

*Manager, Business Development
Restoration Services*

Manganaro Midatlantic, LLC
6405-D Ammendale Road
Beltsville, MD 20705

p 301-937-0580
f 301-937-0588
c 301-343-9782
touska@manganaro.com



Mike Miller

Estimating Manager
Mobile 443-250-0311
mmiller@structural.net

Baltimore Branch
6955 San Tomas Road
Elkridge, MD 21075
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Fax 410-796-8500
www.structural.net

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Unit B114
Chantilly, VA 20151
P 703.263.0730
F 703.263.0726
C 703.906.9859
E brian@kenseal.com
W KENSEAL.COM



Brian Greene
Senior Account Manager



Michael K. O'Malley

6737 Dogwood Rd.
Baltimore, MD 21207
Phone: 410-298-2669
Fax: 410-298-4086
E-mail: momalley@c-p-rinc.com



Joseph D. Shuffleton, P.E.
President
Christopher W. Carlson, P.E.
Chief Structural Engineer

Engineering and Technical Consultants, Inc.
8930 Old Annapolis Road, Suite G
Columbus, Maryland 21045

t 410.740.2233
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Fax: (410) 789-7406
Cell: (301) 802-5171

BUSINESS CARD SERVICE DIRECTORY



Michael Stewart, ACI, ICRI
Sales Representative

The Euclid Chemical Company
5916 A Deale Churchton Rd.
Deale, MD 20751

mstewart@euclidchemical.com
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LARRY BURKHARDT

Eastern Regional Manager

CELL 443.841.9708

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