



# Restoration News

A Publication of Cathedral Stone Products, Inc.

2nd Quarter 2015

- 1 **Historic Taftsville Bridge Restoration** uses Jahn Mortars to restore structure after hurricane damage.
- 2 **New Director of Sales** energizes sales efforts.
- 2 **CSP Lab Welcomes** two new highly qualified chemists.
- 3 **Eagle Scout Project** uses donated CSP cleaners to restore Civil War cemetery.
- 4 **Restoration in the City** takes CSP continuing education classes to Boston.

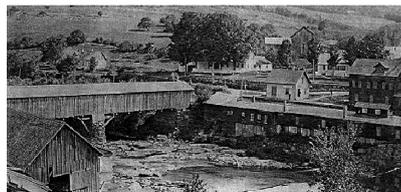
## Vermont Agency of Transportation Teams With CSP on Bridge Restoration

The Taftsville Covered Bridge is a rare example of early vernacular wooden truss covered bridges in the United States. All evidence indicates the builder, a longtime Taftsville resident named Solomon Emmons III, used no existing patented bridge truss design, and that the design and construction techniques are unique. Constructed entirely of local wood and stone in 1836, at a cost of \$1800, it is the oldest covered bridge in Windsor County, and is the third oldest bridge in the state. At approximately 189 feet in length at the floor, it is the second longest covered bridge in Vermont. On August 28, 2011, Tropical Storm Irene devastated the south abutment, closing the bridge for two years while extensive repairs and renovation efforts were made.



Above: The Taftsville Covered Bridge in 2006 showing the Pier and Abutment that were preserved.

Below: The Taftsville Bridge Mid 1910's.



As part of the \$2.5 million dollar reconstruction of the Taftsville Covered Bridge, the State of Vermont Agency of Transportation (V-Trans) conducted a study to examine and evaluate the impacts of the constructability, overall performance and life cycle cost of a permeable mortar and grout system. The materials used in this study — Jahn M110 Historic Pointing Mortar and the Jahn M40 Injection Grout — were designed by Cathedral Stone Products specifically for this rehabilitation project.

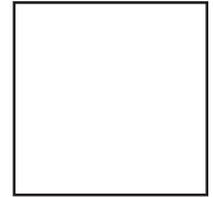
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## Cathedral Stone Products, Inc.

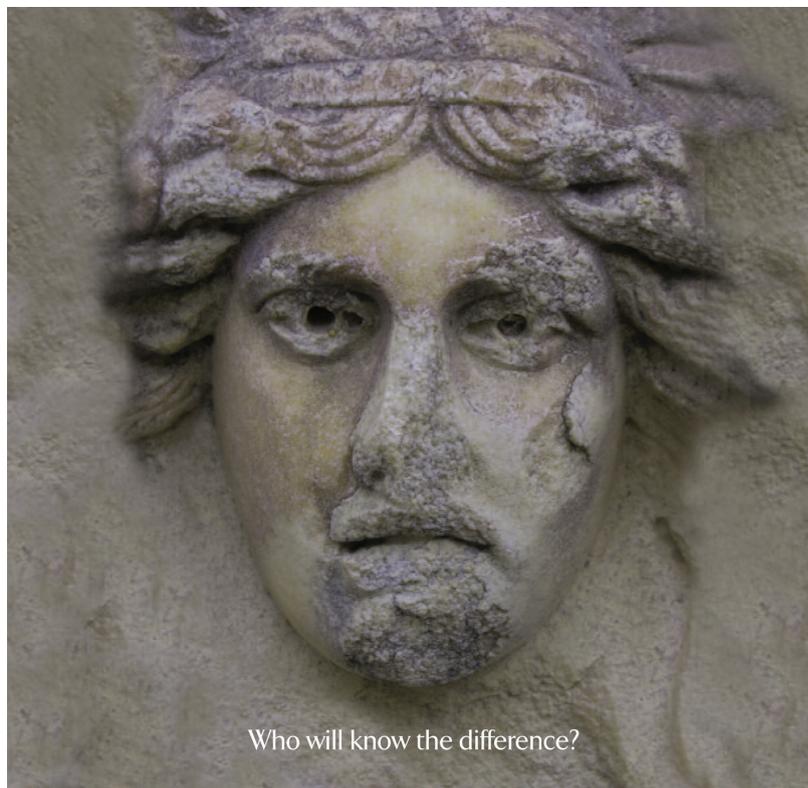
*The leader in scientific masonry restoration*

7266 Park Circle Drive  
Hanover, MD 21076



### Advertising Sneak Peek

Look for our full page ad in the next issue of the *APT Bulletin*.



Who will know the difference?

Probably no one — at first. But if you use masonry restoration products that haven't been scientifically-developed and lab-tested to be fully compatible with the substrate, within a few years the restoration will fail. Then, everyone will know the difference. Why take chances when you can choose from a full spectrum of integrated, masonry restoration systems that are scientifically formulated to deliver results that last a lifetime. Whether your project involves limestone, brownstone, sandstone, concrete, or terra cotta restoration or requires masonry stripping, cleaning, water repellency, grouting, stabilization, coatings or Jahn Restoration Mortars, it pays to know the difference now — so everyone doesn't know it later. Email us to request our *Welcome to the End of Masonry Restoration Failures* brochure to learn more today.

[www.cathedralstone.com](http://www.cathedralstone.com) • [info@cathedralstone.com](mailto:info@cathedralstone.com) • 410-782-9150



Cathedral Stone Products, Inc.

*The leader in scientific masonry restoration*

### Upcoming Events

Please join us at the following conferences, trade shows & seminars.

**Kansas City, MO**

**NOVEMBER 1 – 5, 2015**

**APT Conference —  
Convergence of People  
and Place: Diverse  
Preservation Technologies  
and Practices**

APT Kansas City 2015 will explore the interface of diverse technologies and how this evolves the modern practice of heritage conservation. Come by and visit Cathedral Stone Products at Booth #18 to say hello and see what's new.

*The Baltimore Club  
1228 Baltimore Ave  
Kansas City, MO 64105*

## Training Schedule

Get an education in scientific masonry restoration.



### Jahn Restoration Training Workshops

Three-day Jahn Restoration Training Workshops introduce traditional methods of masonry repair using Jahn Restoration Mortars. Architects can receive AIA/CEU credits upon request. Certification by successfully completing the Jahn Restoration Workshop is necessary to purchase Jahn Repair Mortars M70, M100, M120, and M160.

**July 20 – 22, 2015**

Cathedral Stone Products, Inc.  
7266 Park Circle Drive  
Hanover, MD 21076

**October 19 – 21, 2015**

Cathedral Stone Products, Inc.  
7266 Park Circle Drive  
Hanover, MD 21076

Visit [www.cathedralstone.com/training](http://www.cathedralstone.com/training) to register today.

## Chemist's Corner

Cathedral Stone Products is very proud to welcome research and development chemist, Vincent Downs to our on-site company laboratory. After earning his BS in biochemistry from the University of Maryland, Baltimore County, he spent 9 years working in the pharmaceutical industry where he gained experience in such diverse specialties as wet chemistry and manufacturing to formulation and process development.



To give some insight into his approach, Vince explained that, “in a pharmaceuticals laboratory, your processes are constantly being checked to ensure the quality of the product. You can see with any medicine someone ingests, the pureness of the product is the number one priority. This doesn't even take into account the mandatory requirements and surprise-inspections from government organizations. I want to institute similar quality control procedures to ensure our products deliver the premium results our customers demand of us.”

In the coming months, Vince will be assisting in product development and quality control to continue the company's tradition of continuous improvement and consistent quality through a proven scientific approach. ■

*Got a question for the Chemist? Email Vincent Downs at [info@cathedralstone.com](mailto:info@cathedralstone.com) and put Chemist in the subject line.*



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*President and Owner*

**Joe Sette**  
*Chief Executive Officer*

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*Operations Manager*

**Tina Orlandi**  
*Finance Director*

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*Research and Development Chemist*

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## President's Letter



The warmer weather and improving economy is bringing along with it new jobs and a tighter time schedule. Cathedral Stone is excited to see business pick up and is ready to meet all restoration challenges that lie ahead. In terms of new developments, along with Jahn Mortars, we now have our own line of biodegradable Paint Strippers, Water Repellants, Latex Waterless Cleaner, and Rust Removers. This wide array of high quality products makes Cathedral Stone a one stop for all your masonry restoration needs.

New jobs will always bring new challenges. This is why Cathedral Stone prides itself on having its own research and development department. Two new products currently in development are a rust preventive and a graffiti prevention coating. We are excited about the possibilities of these and a number of other products in the future.

Best regards,  
*Dennis Rude*

## CSP Welcomes New Team Members

### Steven Cortazzo, Director of Sales



Steven is a seasoned Sales Manager with over 35 years of experience, who is well respected and trusted throughout the industry. He will be responsible for growth in the New York and Long Island region.

### Jude Cooke, Operations Manager



Jude was hired in March to oversee CSP's production facility and warehouse. He brings with him years of management experience he gained in the military. Jude earned his BS in Management from the United States Military Academy and his MBA from Oklahoma State University.

### Vincent Downs, Research and Development Chemist



Vince joined the CSP team in March 2015, to lead the company's research and development department. With a background in pharmaceuticals, Vincent will maintain CSP's current high standards while continuing our tradition of innovation and product improvement.

### Ojo Ibadapo, Color Laboratory Chemist



Ojo took control of Cathedral Stone's prestigious color lab in January 2015. With a dual degree in Physics and Chemistry from Alabama A&M, Ojo is strengthening CSP's scientific and analytical approach to formulating our full spectrum of custom colored mortars.

## CSP helps Eagle Scout Restore Civil War Headstones By Joe Cramer



As a 6 year member of Boy Scout Troup 395 in Omaha, Nebraska, I was looking for meaningful project ideas that I could lead in order to advance to the rank of Eagle Scout. On Labor Day of last year at a fundraiser for the Make-A-Wish Foundation, I met Steve Bauhermeister, a member of the Sons of the Union Veterans Organization. Steve asked if I knew about Soldiers Union Monument in Forest Lawn Cemetery. I live close to the Cemetery and was familiar with the grounds thanks to some early driving lessons and Soldiers Union was my favorite monument there. We both agreed that the monument deserved some much-needed restoration. After talking to the Director of the Cemetery, it was decided that I would clean the Soldiers Union Monument and surrounding gravestones to help restore and preserve the monument for future generations.

The monument was a lot bigger and dirtier than I remembered from driving by. It includes a 21-foot tall statue of a Civil War Soldier as the main monument, four outward facing 9 lb. Civil War Cannons, and over 330 marble gravestones commemorating Nebraska Union Soldiers who died during and after the American Civil War. All of which were covered with decades of soot and moss.

While doing research on how to clean military gravestones, I found masonRE B+ Cleaner manufactured by Cathedral Stone Products, which is a veteran-owned company. I wanted a cleaner that was long lasting, for

use on the historic gravestones, and safe to apply. I was able to contact the CEO of Cathedral Stone Products, Joseph Sette, a 25-year Army veteran, who agreed to donate 20 gallons of masonRE B+ Cleaner to be used for this special project.

I wanted the project to be completed before the re-dedication of the Monument which would be held during the Memorial Day weekend. The project was held on Saturday May, 2nd, which started out rather stormy, but the 35 volunteers from Troop 395 didn't mind a little rain.

Cleaning the graves was actually rather easy. The scouts had to presoak the graves (and hopefully not each other) before the adults could spray the gravestones with the cleaner. After letting the cleaner set for 10 minutes and after a quick reapplication of the product, the scouts were able to scrub away decades of dirt and grime. The Scouts cleaned all of the more than 330 gravestones, the main Monument itself, and still had time to repaint the cannons and repair the flagpole, all in just over 6 hours.

On the night before the rededication, many Scouts came to put American Flags onto the Grand Army of the Republic flag holder located on the side of every gravestone. The Sons of the Union Veterans hosted the rededication of the Soldier Union Monument on May 23rd. Everyone agreed that this was a very successful and meaningful Eagle Scout Project. Everyone was honored to help restore the monument to its former glory to help future generations remember the noble sacrifices of the soldier who fought for the freedoms of American citizens everywhere. ■



## Restoration in the City: Boston

On May 6, 2015, Cathedral Stone hosted our *Restoration in the City* educational seminar and hands on workshop in Boston, Massachusetts at the New England Center for Arts & Technology. The event featured two sessions, one morning and one afternoon, with each session qualifying for 2.5 AIA Continuing Education Credits. The subject of our seminars was the many causes of masonry deterioration and restoration failures and how a scientific approach ensures predictable, long-lasting results, every time. This included lessons learned from our founder Dennis Rude's years of experience in the restoration industry, the importance of having the restoration



material match the substrate, the effect permeability has on long lasting repairs, and case studies from actual restoration projects. There was also much discussion on the breakthroughs in masonry restoration that have come out of Cathedral Stone's in-house laboratory. This allows us to test out theories and develop new products to bet-

ter meet all your masonry needs. Our seminars included material that was interesting and applicable to contractors, engineers, architects, construction specifiers and property owners. Cathedral Stone will be hosting similar seminars in cities across the country, and would love to see you at our next *Restoration in the City* event. ■

## Vermont Agency of Transportation Teams With CSP on Bridge Restoration

*Continued from page 1*

The study centered on permeable grouts and mortars that were being considered for use to shore up the pier and abutment. Permeable grouts allow moisture to leach out from within the abutment stonework thereby reducing the risk of lateral instability due to hydrostatic pressure buildup. The mortar used must adhere to the stone with specific strength requirements and must have a lower compressive strength and a greater vapor permeability than the masonry abutments. The intent of the rehabilitation project was to treat the surviving dry-laid stone foundation components with a permeable mortar that fulfilled these functions.



*Pier after Construction in 2014*

Alpine Construction of Schuylerville, New York broke ground on the project in October of 2012 and began work along with P&P Landscaping, the subcontractor chosen to work on the stone pointing. Since the proj-

ect was completed in September of 2013, the Agency's Research and Development Section has visited the project site to evaluate the performance of the grout which overall is functioning as expected. As with each

phase of the bridge's evolution over time, new technology and new understanding was used to give this historic structure new strength and new life. According to the report. "The bridge now has within its stones an advanced mortar and grout system that will guard it against the internal mechanism of hydrostatic pressures and salt expansion. The supports of the bridge have added strength and durability to continue fulfilling its purpose long into the future." ■

*Excerpted and adapted from the Assessment of Jahn Permeable Mortar System in a Historic Bridge Abutment Application report prepared by George W. Colgrove III, Research Administrator and reviewed by William E. Ahearn, P.E., Research & Development Engineer, April 30, 2015.*