

As The Barrel Turns

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The Official Newsletter of the Pennsylvania Concrete Promotion Council



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Past editions of *As the Barrel Turns*, as well as, pertinent document links mentioned in this newsletter are available on PACA's [website](#) under the *Newsroom* Tab, subtab *As the Barrel Turns*

When It Rains, It Drains.... Unless It's Dirty!

"When It Rains, It Drains" is the slogan used to describe pervious concrete, but after years of seeing pervious concrete projects, we need to add "Unless It's Dirty".

PACA has been promoting the *Pervious Maintenance and Operations* document created in the Spring of 2013, and this past winter proved the necessity of this piece. Maintenance is an everyday expense in our lives - wouldn't it be great if it weren't necessary. Look at all the money we could save by not maintaining things.

Now that sounds like a silly thing to say, but that is what is happening with pervious concrete. When left unmaintained, it can plug solid. Next, we have a severe Winter, and it fails. That is exactly what we are seeing with many of our pervious concrete projects. And how much money did we save?

Westmoreland County has had the largest growth in the number of pervious concrete projects thanks to that county's Conservation District. They see that pervious concrete can help with the stormwater management issues the county experiences. Their own parking lot was the first pervious concrete project in Western Pennsylvania seven years ago. What better place to go and provide education on pervious concrete maintenance and do so by cleaning the parking lot at their Greensburg facility.



A lunch program at the Westmoreland Conservation District was attended by over 25 engineers, watershed employees, and representatives from the PA Department of Environmental Protection (DEP). The program was held on May 14th and began with PACA staff member Bruce Cody presenting a new presentation titled "*Pervious Concrete Lessons Learned 2014*". This presentation looked back at the last seven years of pervious projects and what

Pervious maintenance continued...

we have learned from them. It was broken into 4 categories:

- Design
- Pervious Concrete Mixes
- Installation
- Maintenance and Operations

Cody admitted he was a little nervous when he saw that some of the people attending the program were either owners or were involved with the design of some of the projects that he highlighted in his presentation. These projects failed due to either design issues or, more often, a lack of maintenance; understanding that it was necessary to address these mistakes.

The second presenter was Jim Miller, from C2 Products in Indiana. Jim's company not only manufactures "The Bean", a soy bean based curing product, but he is also a Pervious Concrete Craftsman who has installed and consulted on numerous pervious projects. Jim was instrumental in helping PACA create the *Pervious Maintenance and Operations* document. His work in cleaning and maintaining pervious concrete throughout his home state was invaluable to this program.

After his presentation was completed, the attendees were instructed to move out to the parking lot to see first-hand one method for maintaining pervious concrete - dry vacuuming. The first step is to complete the ASTM 1701 procedure to evaluate how the area is draining before you clean it.

The area is then vacuumed, the material collected in the bag is weighed and that weight is recorded. This information is valuable in creating a maintenance log. After the vacuuming has been completed, the area is again tested in accordance with the ASTM 1701 procedure and the infiltration rate is recorded.

The question most asked by attendees was, "How much does this cleaning cost?" Miller stated that if done on a periodic schedule as recommended, it averages \$.25 per square foot. That is a small price to pay to keep a Stormwater Management system in working order.

(Note: A video showing a "wet vacuum" method of cleaning pervious concrete has been added to our website: <http://www.specifyconcrete.org/specification-resources/videos/>.

Look for a video of the demonstration described above to be added to the website in the near future)

Pervious Concrete Certifications & Demonstrations Conducted

PACA recently conducted two Pervious Concrete Contractor Certification programs. One was held in the East and a second was held in the West. The certifications were part of a two-day program that included pervious concrete placement demonstrations and education.

The demonstrations carried out the theme that "***We have the technology to make it better***". The Bazella brothers, Justin from the Bazella Group in Allentown and John from J Bazella Concrete Construction in Saltsburg, sponsored workshops on each side of the state to help educate attendees on the advancements that have been made, developing better pervious concrete mixes and also demonstrate the advancements in installation methods.

David Mitchell, Bunyan Industries, made the trip from Salt Lake City, Utah, to present on the evolution of pervious concrete mix designs. He also went to the Berks Products production facility that would supply the demonstration in Eastern Pennsylvania, and worked directly with Kevin Hall (Berks Products QC) on an advanced pervious concrete mixture that incorporated 5% Silica Fume and 5 lbs. per yard of macro fibers.

Jim Miller, C2 Products, presented on the grants that are available for financing projects using pervious concrete. There may be funding opportunities in your market for financing these projects.

Lastly, John Bazella spoke on some of the hybrid mixes he is working on for repairing pervious concrete. He also spoke about the pervious concrete ACI logo that was constructed at this year's World of Concrete.

PACA wishes to thank all those who made these two programs possible. Your assistance is invaluable to our concrete promotion efforts.



PACA Members 1st!

When you have the need for first class equipment or services, please contact a PACA Associate Member to assist you. Our associate members are our partners and help us advance our industry and our association. WE all succeed by utilizing our community of people and companies.

Roller Compacted Concrete Update

The March edition of this newsletter notified our members of an electronic marketing/education campaign targeting municipalities and specifiers in select areas of the state on Roller Compacted Concrete (RCC). It also included a note about a meeting that was held to solicit input from our members regarding what the next steps should be.

As a result of that meeting, PACA will pursue what is effectively two separate markets for RCC commercial/heavy duty industrial and streets/local roads. PACA staff has engaged its marketing firm (Sacunas) in what is anticipated as being a multi-year program for promoting RCC. We will continue to keep you informed as things progress.

One key factor as we move forward will be the inclusion of RCC into PennDOT's Pub 408. A Step 2 CT was circulated for comment and returned in late March. Industry hopes that that a "final" specification will be released by the third quarter of 2014.

FHWA Publishes Report on Pavement Sustainability

The Federal Highway Administration (FHWA) has established a technical working group (TWG) to provide input and feedback on pavement and material sustainability, reports NRMCA Vice President Pavement Structures Brian Killingsworth. The working group is composed of representatives from state DOTs, other government agencies, academia and industry. The working group is part of FHWA's Sustainable Pavements Program, established in 2010, which strives to advance the knowledge and practice of sustainability in the pavements and materials areas. The integrated program covers asphalt, concrete, granular and recyclable materials used in pavement systems and promotes research into new sustainable materials and processes.

Program objectives include developing guidelines for designing and constructing sustainable pavement systems; evaluating materials, processes, technologies and tools to aid in the evaluation, design and construction of sustainable pavement systems; and conducting technology transfer and deployment

activities. To support these objectives, the working group meets twice a year to exchange ideas, innovative solutions and evaluate products under development by the FHWA sustainable pavements team. The FHWA is developing a sustainability report, titled *Advancing a Sustainable Highway System: Highlights of FHWA Sustainability Activities*, with the goal of illustrating how sustainability has been incorporated into a wide variety of FHWA programs, projects, policies, processes and partnerships. It is intended to be published in late Summer 2014 and used by a diverse audience of transportation agency professionals at the federal, state and local levels as well as by the general public.

At a recent TWG meeting held in Minneapolis, comments from committee members on the draft report were reviewed and modifications made when pertinent. Killingsworth is a friend of the committee and ensures that the benefits of ready mixed concrete are considered in the work that the group performs.

Green Building Council Provides New Tools for Tracking Green Buildings

Green building construction, in particular LEED-certified buildings, continues to expand at accelerated rates in all parts of the U.S. To help track this growth, the US Green Building Council (USGBC) recently launched a new section of its Web site that allows users to enter a state and view details about LEED project registration and certification along with other details about LEED certification in that state. [Click here](#) to track your state.

The USGBC also launched a new Web site called The Green Building Information Gateway or GBIG for short. This Web site allows users to type in an address, Zip code or city and return all the green buildings listed. Many of the projects listed are LEED-certified buildings, but others are identified as green using other benchmarks such as Energy Star. Visit www.gbig.org to find green projects in your area.

As reported in the NRMCA's "This Week in the Ready Mixed Concrete Industry" newsletter.

Watch your email inbox for PACA's weekly E-Alerts, brought to you every Friday, to learn all the latest industry news, events, and MORE!

Design Firms Demand Environmental, Health Information from Product Manufacturers

Top architecture and engineering design firms are requesting and driving the transparency movement. Health Product Declarations (HPDs) and Environmental Product Declarations (EPDs) are quickly becoming the norm, according to Green Wizard. It has published open letters from 26 different high profile design firms at www.greenwizard.com/transparency, essentially stating that they want to see HPDs and EPDs before they consider specifying a product for their projects. In effect, most of these companies will soon require EPDs and HPDs and many will favor companies that have them, regardless of whether they are working on a LEED project.

As reported in the NRMCA's "This Week in the Ready Mixed Concrete Industry" newsletter.

CEOs Announce Major Commitment to Promote Resilient Planning & Building Materials

Last week, leaders of America's design and construction industry, along with building owners and operators, agreed to promote resilience in planning, building materials, design, construction and operational techniques as the solution to making the nation's aging infrastructure more safe and secure.

Chief executive officers (CEOs) of almost two-dozen leading design and construction industry associations used the occasion of "[Building Safety Month](#)" to issue a [joint statement on resilience](#) at a press conference at the National Building Museum in Washington, DC

The CEOs committed their design and construction sector organizations to significantly improve the resilience of the nation's entire built environment through research into new materials, construction procedures and other methods to improve the standard of practice. Among other things, they also committed the industry to educating itself through continuous learning; to advocating for effective land use policies; to responding to disasters alongside first responders; and to planning for future events, with a strategy for fast recovery.

As reported in the May 19, 2014 edition of PCA's Executive Report.

Urge Congress to Pass WRRDA

On May 15, the [Conference Report](#) for the "Water Resources Reform and Development Act of 2014" was filed. The House and Senate are expected to pass the legislation this week. Enactment of this legislation is a priority for the cement industry. To ensure the strongest possible vote in favor of the Conference Report, PCA has developed a [grassroots alert](#) to allow you to contact your congressional delegation to urge its passage.

The Conference Report addresses industry priorities pertaining to risk reduction measures that include the promotion of materials and resilient construction techniques to help structures withstand a disruptive event.

The report addresses increased use of innovative materials with a specific reference to roller-compacted concrete.

The legislation also provides for critical investment and policy direction to the U.S. Army Corps of Engineers for a variety of Army Corps' missions and projects, including the Great Lakes, flood damage protection, ports, and inland navigation. The Conference Report will enhance the project delivery process that will spend less time and money on studies and more on actual project construction. This legislation will also improve our Nation's water resources infrastructure for those that rely on it to move goods.

As reported in the May 19, 2014 edition of PCA's Executive Report.

RMC Production Statistics Updated - March 2014

The preliminary estimate of ready mixed concrete produced in March 2014 is 22.4 million cubic yards, 6% higher than in March 2013. The estimated production for the first quarter of 2014 is 57.6 million cubic yards, 3.2% higher than that during the same period in 2013. Based on first quarter production and trends in the last 20 years, the projected production for 2014 is 310 million cubic yards with a margin of error of ?17 million cubic yards (6%). As might be expected, weather had a significant impact on production in the first quarter in many regions of the U.S.

Ready mixed concrete production is estimated from cement shipments reported by the U.S. Geological Survey.

NRMCA Webinars

The NRMCA has a variety of educational offerings to assist you in promoting concrete. For more information on these programs please contact 1-888-846-7622, ext. 1134 or e-mail meetings@nrmca.org



PCA Webinars

For information on the educational programs offered by the PCA please visit their website at www.cement.org or call them at 847-966-6200.



Upcoming Promotion Events

PACA staff continues to reach out to the Engineering and Architectural community. As we schedule education and training events we will list them in this area. You are invited and encouraged to attend with us.

If you have any questions about participating at any program, please contact Bruce Cody at bruce@pacaweb.org or Ken Crank at ken@pacaweb.org.

Price Per Ton - Current

| | |
|-------------------------------|----------|
| Zone 1 - Districts 3,4,5,6,8 | \$554.00 |
| Zone 2 - Districts 2, 9 | \$545.00 |
| Zone 3 - Districts 1,10,11,12 | \$536.00 |

MARCH 2014: Price Per Ton

| | |
|-------------------------------|----------|
| Zone 1 - Districts 3,4,5,6,8 | \$562.00 |
| Zone 2 - Districts 2, 9 | \$547.50 |
| Zone 3 - Districts 1,10,11,12 | \$533.00 |

Penndot Asphalt Index

May 2014



Are you currently promoting a project or have you had recent success promoting one? We want to hear about it. Part of our promotion effort includes tracking projects that are successfully designed and constructed in concrete. We capture that information and include it in our reports to our promotion partners. It is vital that the information we have is as complete and encompasses as many successful promotion efforts as possible.

Making us aware of these projects is a simple as contacting Bruce Cody (bruce@pacaweb.org) or Ken Crank (ken@pacaweb.org). A project tracking form is available by clicking [here](#). Please don't hesitate to get us involved.

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As the Barrel Turns is published by the Pennsylvania Aggregates and Concrete Association and is distributed free of charge to our membership and to those interested in PACA's concrete promotion efforts.

If you know of someone you feel should be receiving this publication, please contact Kallie Kline at kallie@pacaweb.org.

Thank you 2014
Corporate Sponsors!



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& SUPPLIES



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