

May 24, 2017



# Paver Express

A bi-weekly news and information resource from the Interlocking Concrete Pavement Institute

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## ICPI NEWS

### ICPI Introduces Quarterly Basic Installation Demo Video Series for Students and New Installers



ICPI

“Where to begin?” That’s often the question that confronts interlock concrete pavement contractors when they hire young permanent or temporary seasonal employees without experience in the industry.

ICPI now offers members a complimentary benefit that addresses this basic training need for contractors. The Institute is launching a quarterly demonstration video series available on-demand from the ICPI website. Nonmembers must pay \$40 per video to participate. **READ MORE**

**EVOLUTION**  
Polymeric Sand



Over 15 years ago we started  
making polymeric sand

### ICPI Government Affairs Update



ICPI

By coincidence with the calendar, this report will focus on the first 100 days of the Trump Administration as it relates to ICPI interests. **READ MORE**

### 2017 ICPI Summer Meeting Schedule



ICPI

The 2017 ICPI Summer Meeting will take place on Aug. 22-25 at the Westin Harbour Castle in Toronto, Ontario.

Please note ICPI has made a few revisions to the 2017 Summer Meeting schedule which includes the following: The Construction Committee Meeting is from 8:30 to 11:30 a.m. Wednesday, Aug. 23, and the General Session Luncheon will be from 11:45 a.m. to 1:45 p.m. Thursday, Aug. 24. The Hardscape North America Advisory Committee Meeting was added to the schedule from 3:30 to 5 p.m. Tuesday, Aug. 22.



To view the complete ICPI Agenda, please visit the [2017 Summer Meeting events page](#).

**SPONSORED CONTENT**

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- [Tiger Model S Installed in the US](#) - Call us to see it in action (616) 395-8447
- [Pathfinder & Teka Update Mixing Technologies at R.I. Lampus](#)
- [Basalite Installs a Tiger PS-1400 HD in Tracy, CA](#) - Basalite Concrete Products earns premier NCMA/ICPI plant certification
- [Bergen Predictive Maintenance Sensor](#) - What if you could predict failures on your manufacturing equipment?
- [Bergen offers a Memorial Day Special](#) - In need of molds or mold parts?



**ICPI Updates Two Tech Spec Guides for Interlocking Concrete Pavements**



ICPI



**Construction of Interlocking Concrete Pavements**

**Purpose**  
This technical bulletin gives construction guidelines to design professionals and contractors of interlocking concrete pavement. It includes revised the steps in constructing an aggregate base, bedding sand and concrete pavers. The pavement structure is commonly used for pedestrian and vehicular applications. Pedestrian areas, driveways, and areas subject to limited vehicular use are paved with units 2 1/4 in. (60 mm) thick. Streets and industrial pavements should be paved with units of least 3 1/2 in. (90 mm) thick.

It is recommended that ICPI Certified installers be utilized for the construction of interlocking concrete pavement. These individuals have attended training and have demonstrated their knowledge of the guidelines, materials and techniques specific to interlocking concrete pavement. ICPI maintains a list of Certified installers on [www.icpi.org](#).

Aggregate bases stabilized with asphalt or cement are recommended under very heavy loads, and over weak or saturated soil subgrade. These are sometimes used when aggregate aggregates are not available or when a stabilized base is more economical than unstabilized aggregate. Refer to Tech Spec 8 Structural Design of Interlocking Concrete Pavement for Road and Parking Lots when looking for additional information regarding the structural design of the base and subbase.

Tech Spec 10 is based on the design methods detailed in AASHTO 18 in Structural Design of Interlocking Concrete Pavements for Municipal Streets and Roadways.

Concrete pavers made in the U.S. should meet the requirements established in the American Society for Testing and Materials (ASTM) C936, Standard Specification for Interlocking Concrete Aggregate Units. Requirements of this standard include a minimum average compressive strength of 8,000 psi (55 MPa), average absorption no greater than .18%, and air to a total of 5% to 8% by volume with a maximum of 1.0% of voids.



Figure 1. Execution of the wet mix process and placing grade above.



**Design, Construction and Maintenance of Interlocking Concrete Pavement Crosswalks**

**Introduction**  
Crosswalks play an important role in streets by marking pedestrian crossings. With colors, patterns and textures, interlocking concrete pavement (ICP) crosswalk applications and the 2013 report summarize their performance (Global 2013) headed by Professor Juan Tigue, Ph.D., P.Eng., the three-year accelerated leading study specialist that the structural performance of typical ICP crosswalk designs and recommended the maximum expected design life for each scenario.

The project evaluated eight crosswalks with two different bases and bedding materials installed at the University of Waterloo King Road (See Figure 1) and CH2M test track at the Regional Municipality of Waterloo Waste Management Facility (See Figure 2). The Regional Works Facility experiences heavy traffic almost exclusively

unded research project by the University of Waterloo's Centre for Pavement and Transportation Technology (CPATT). The study investigated ICP crosswalk applications and the 2013 report summarizes their performance (Global 2013) headed by Professor Juan Tigue, Ph.D., P.Eng., the three-year accelerated leading study specialist that the structural performance of typical ICP crosswalk designs and recommended the maximum expected design life for each scenario.

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Figure 1. Crosswalks were installed on King Road at the University of Waterloo. These are urban roads that have high and heavy automobile traffic.



Figure 2. The pavement test track at the Waterloo Regional Works Facility experiences heavy traffic almost exclusively from heavy trucks.

The Interlocking Concrete Pavement Institute (ICPI) has updated two key Tech Spec guideline bulletins as part of the Institute's ongoing three-year review cycle for all 23 bulletins. [READ MORE](#)

## The 2017 HNA Block and Registration is Now Open



ICPI



The HNA hotel room block is now open for reservations and will fill up quickly. If you are planning on attending and/or exhibiting at HNA, be sure to reserve your rooms soon! [READ MORE](#)

### PRODUCT SHOWCASE



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Specialized surface textures, custom engineering and extensive R&D, all while setting the standard for delivery times worldwide.

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## ICPI Welcomes a New Education Program Coordinator



ICPI



Aaron Paul is our new Education Program Coordinator. Aaron has previous experience as a Membership Specialist and Program Coordinator at the National Rifle Association. He also has construction experience as a general laborer working for a master electrician. Aaron has a Bachelor of Science degree with a major in political science from Michigan State University.

## Did You Know? HNA Awards are Now Open!



ICPI

The 2017 HNA Project Awards are now open! The HNA Awards recognize outstanding hardscape projects by contractors building residential and commercial walkways, patios, driveways and commercial plazas, parking lots, streets and more. Award winners will be recognized during the 2017 Hardscape North America trade show and will be featured in *Interlock Design* magazine, the HNA website and several other industry publications. Click [here](#) for more information or to submit your project today!





## MEMBER NEWS

## TIGER's Model S King of the Concrete Jungle



Pathfinder Systems



The TIGER model S Series of concrete products machines is designed to manufacture high quality concrete masonry units via industry wide available mold vibration and at a high rate of speed. The TIGER S series of machines are the fastest cycling hydraulic concrete products machines in the world making high quality products. **READ MORE**

## ICPI Members: Got News to Share?



ICPI

Add ICPI to your news distribution list and have your news shared in the Paver Express. We encourage you to send news about your company, new products, community service projects or key employees. Send press releases and other new items to [Reba Miller](#), Marketing & Meetings Coordinator.

## SPONSOR SPOTLIGHT



## GOVERNMENT/ECONOMIC INDICATORS

## U.S. Small Business Administration Office of Advocacy Looking for Online Feedback on Silica and Other Problem Regulations



Office of Advocacy

The Office of Advocacy is involved in regulatory reform efforts underway as a result of two recent executive orders. Agency implementation of these executive orders offer significant opportunities for regulatory relief targeted to small businesses. As an independent voice for small business within the federal government, Advocacy has a unique and important role to aid agency implementation of the executive orders. To help small businesses give feedback easier and more effective, Advocacy has created a new website and form to obtain feedback from small businesses on harmful federal regulation. This is an important opportunity for ICPI members to express their concerns about the silica standard. **READ MORE**

## White House Tells Congress It Will Renegotiate NAFTA



The Hill  
U.S. Trade Representative Robert Lighthizer recently notified Congress that President Trump intends to renegotiate the North American Free Trade Agreement (NAFTA). Lighthizer said the United States will rework the 23-year-old trade agreement to support higher-paying jobs here and grow the U.S. economy by improving trading opportunities with Canada and Mexico. [READ MORE](#)

## EPA Seeks Governors' Input in Rewriting Obama Water Rule



The Hill  
The Trump administration is reaching out to state governors for help in rewriting former President Barack Obama's controversial water pollution rule. Environmental Protection Agency head Scott Pruitt, along with acting Assistant Secretary for the Army Douglas Lamont, sent a letter to governors asking for their "input and wisdom" on what bodies of water should be regulated by the federal government in the Clean Water Act. [READ MORE](#)

## Growth in Home Building 'Slow and Steady'

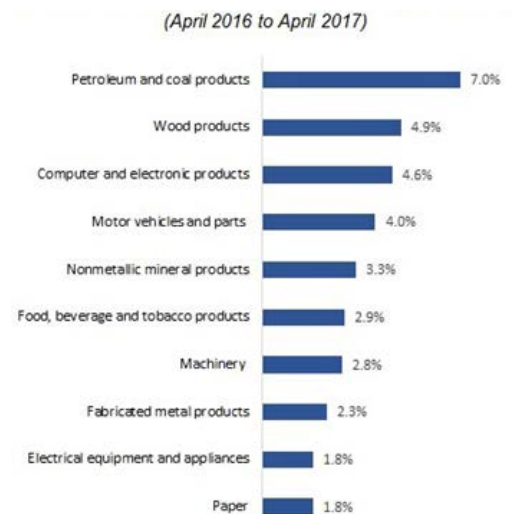


MarketWatch  
The home-building recovery has been slow and steady — and nearly nine years after the housing crisis, housing construction isn't yet fully healed. That's probably a good thing. It means housing construction will continue to buoy economic growth for some time — and new data will shed light on the strength of the residential construction sector. [READ MORE](#)

## Top 10 Sectors for Year-Over-Year Manufacturing Product Growth



NAM  
Much of the economic data released last week provided mixed news, even as these indicators continue to suggest overall progress. For manufacturers, two regional surveys showed movement in the opposite direction in the May data. At one end of the spectrum, the Philadelphia Federal Reserve Bank reported that manufacturing activity expanded robustly in May on strong growth in new orders and with the average employee workweek expanding at a level not seen since October 1987. This stood in contrast to the rather disappointing Empire State Manufacturing Survey in May, which had activity falling for the first time since October. The contraction in the New York Federal Reserve Bank's headline number stemmed largely from reduced demand for the month, with several other measures also slowing. [READ MORE](#)



## Nationwide Recovery Continues

NAHB  
For the country as a whole, the NAHB/First American Leading Markets Index (LMI) rose .01 point over the quarter to 1.0. Over the past year, the LMI grew by .05 point. The index uses single-family housing permits, employment, and home prices to measure proximity to a normal economic and housing market. The index is calculated for both the entire country and for 337 local markets, metropolitan statistical areas (MSAs). A value of 1.0 means the three components have individually, whether for the country as a whole or an individual metro area, achieved a level of recovery that combined averages 1.0. [READ MORE](#)

**MISSED AN ISSUE OF THE PAVER EXPRESS? [VISIT AND SEARCH](#) THE ARCHIVE TODAY.**

## INDUSTRY BUZZ

### Forester University Presents Permeable Pavement Master Class Series



Forester University

Join David Hein, P. Eng., Vice President of Transportation at Applied Research Associates and Chair of the ASCE T&DI Permeable Pavement Structural Design Committee, for a comprehensive, live and on-demand, four-session master class series exploring the ins and outs of permeable pavement design, construction and performance.

Sessions Include:

- Introduction to Permeable Pavement
- Site Selection and Design of Permeable Pavement
- Construction and Maintenance of Permeable Pavement
- Permeable Pavement Live Case Studies: *The Good, the Bad and the Ugly*

[READ MORE](#)

### Evanston, IL Determines that Permeable Pavers are Most Durable Solution



Evanston Now

A section of Davis Street in downtown Evanston is getting a new permeable pavement treatment after the previous job failed prematurely. Lara Biggs, head of the city's capital planning bureau, says permeable pavement — designed to reduce water runoff into the sewer system — is a relatively new concept, and municipalities have only been installing it for the past five to 10 years. [READ MORE](#)



### DC Water and DDOT Partnering to Install Permeable Pavement in Green Infrastructure Push



Public now

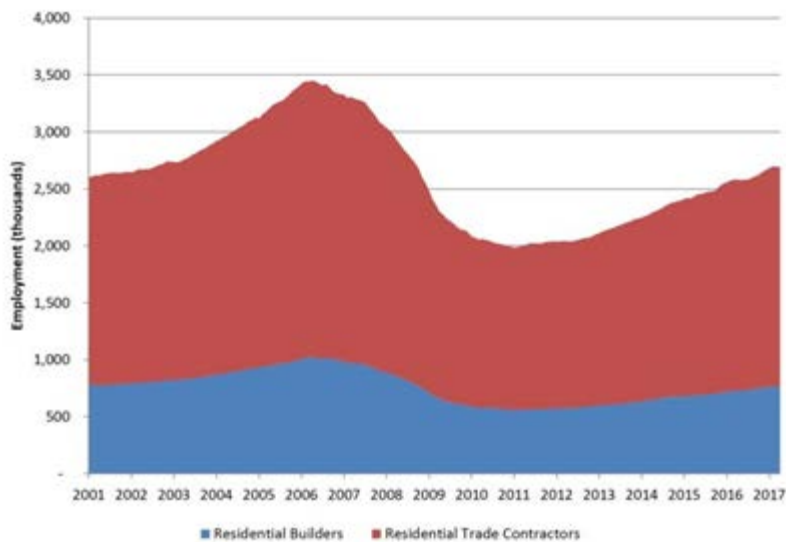
DC Water has announced a plan to partner its cutting-edge green infrastructure technology with the District's renewed focus on repairing alleys as part of an ongoing effort to reduce runoff and pollution in the Anacostia and Potomac Rivers and Rock Creek. [READ MORE](#)

### Construction Sector Labor Market Turnover



NAHB

## Residential Construction Employment



The count of unfilled jobs in the construction sector fell slightly in March, after an upward revision to the February estimate. Moreover, the rate of quits is rising as tight labor market conditions continue. **READ MORE**

## ICPI CALENDAR OF EVENTS

Date	Event	Location
Aug. 19	HNA Northwest Regional Installer Championship	Lacey, WA
Aug. 22-25	2017 ICPI Summer Meeting	Toronto, ON
Oct. 17-18	Advanced Residential Paver Technician Course — HNA	Louisville, KY
Oct. 17-18	Concrete Paver Installer Course — HNA	Louisville, KY
Oct. 17-18	Commercial Paver Technician Course — HNA	Louisville, KY
Oct. 18	PICP Specialist Course — HNA	Louisville, KY
Oct. 18-20	Hardscape North America	Louisville, KY
Oct. 25-26	Concrete Paver Installer Course — ICPI Northern California Chapter	Sacramento, CA
Feb. 9-13	2018 ICPI Annual Meeting	Indianapolis, IN
Feb. 9-10	ICON EXPO	Indianapolis, IN

To check out more ICPI Events, click [here](#).

## ICPI WEBINARS

Date	Webinar	Time
June 8	PICP Design Using Permeable Design Pro: David Smith — Technical	1 p.m. EST

To check out more ICPI Webinars, click [here](#).

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## TRENDING ARTICLES

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Missed last week's issue? See which articles your colleagues read most.

- [ICPI Releases New Maintenance Guide for Permeable Interlocking Concrete Pavements \(ICPI\)](#)
- [Recent Action on the OSHA Silica Regulation \(ICPI\)](#)
- [President Signs FY17 Funding Bill Containing ICPI Provision on Pavers \(ICPI\)](#)
- [Getting Creative \(Storm Water Solutions\)](#)

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