

PCAV
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HardFacts

Newsletter - Fall 2020

PCAV President's Message



Edward C. Page, P.E.
**Concrete Pipe &
Precast,
PCAV President**

The term "Resilient Infrastructure" refers to the ability of infrastructure systems to absorb disturbance and still retain their function and structural capacity. It is fitting in a year the PCAV quickly pivoted to virtual training, education and promotion, that the first webinar to kick off Virginia's 2020 Concrete Pipe and Precast Week was "Resilient Infrastructure".

The definition of resilience refers to an ability to recover or adjust easily to misfortune or change. A characteristic of resilience is the understanding that life is full of challenges. Many problems cannot be avoided but we can remain open, flexible and willing to adapt to change. If there was one trait we all needed to develop or exhibit in 2020, it was the ability or desire to be resilient. Resiliency has been critical in both our personal and professional lives as we have dealt with circumstances that at times still seem unimaginable.

I want to thank PCAV members for continuing to "roll with the punches" as events and activities were rescheduled, postponed, and moved from in-person to virtual. We all learned new technologies together and positive attitudes prevailed. The PCAV appreciates all of our industry partners who attended our virtual meetings and the over 1700 who joined one, several or all of our webinars.

We are looking forward to 2021 and wish all happy, hopeful holidays.

Blessings,
Ed Page

Executive Director's Report

To say 2020 has been quite a year, is certainly an understatement. There is nothing in my lifetime that could have prepared me, or any of us, for what still seems unfathomable some days.

Despite all that has happened, the PCAV has had a very positive year:

- * Under the umbrella of heavy construction and infrastructure, all PCAV producers and associates were declared essential and have remained open and operating without mandated closures with the declared State of Emergency by the Virginia Governor.
- * The PCAV, with its industry partners, defeated several pieces of harmful, unfriendly to business, legislation during the General Assembly session.
- * The PCAV partnered with the ACPA and CAPCA to develop virtual training and educational programs that resulted in 3 separate series, over 1700 attendees, hundreds of new contacts, ideas for new topics, detailed analytics and the opportunity for data analysis to improve our programs, and we provided a positive solution to a challenging obstacle (no in-person gatherings).
- * The PCAV leveraged our positive relations with the Virginia DOT and "met" via Zoom with various task groups to work through industry issues. The use of this new (to us) technology has allowed us to address issues as they come up versus waiting for travel and meeting schedules to align.



Vanessa Patterson
**Executive Director,
PCAV**

"Dedicated to the Growth of the Precast Concrete Industry"

Executive Director's Report - Con't.

- * The new meeting technology gave us the opportunity to “meet” with legislators and administration officials to get ahead of issues rather than having to wait for legislative sessions to convene in Richmond.

We also had our challenges:

- * We faced a General Assembly and Governorship controlled by one party. The PCAV joined with 30+ business organizations across the state to coordinate our messaging and policy positions. The Coalition for a Strong Virginia Economy was in it's infancy in 2020 but is now recognized by legislators as a force with which to recon. The Coalition meets weekly or more frequently if necessary to stay ahead of impending issues.
- * We averted a total shutdown of the Virginia heavy construction/infrastructure industry by lobbying the administration to declare our industry as “essential”.
- * Constant and ever-changing Executive Orders became the norm to sort through and determine exactly what it meant to our industry and to our members personally. Navigating our way through the various Phased re-openings was something both I and our government affairs team tried to communicate as quickly and effectively as possible.
- * We challenged the Department of Labor and Industry's Safety and Health Code Board's proposed Emergency Temporary Standard for Infectious Disease Prevention: SARS-CoV-2 Virus That Causes COVID-19. Once passed, we have assisted members in determining the best approach to implementation. Now as the Permanent version of the standard is being reviewed by the administration, we stand ready to assess what it means for PCAV members and heavy construction/infrastructure and will prepare a response to DOLI during the comment period and if given the opportunity, will testify on behalf of the PCAV's interests.

Every year as I sit and reflect on what we accomplished, I come to the same conclusion. I feel very fortunate to work with and for all our PCAV member companies. I hope you and your family enjoy the holidays.

I know better, brighter days are ahead in 2021!

Vanessa

Vanessa L Patterson
Executive Director

2021

The PCAV's 2021 Calendar of Events (subject to change):

January 19, 2021 - PCAV/VDOT Joint Meeting - via Zoom

January 21, 2021 - PCAV Legislator's Day - via Microsoft Teams

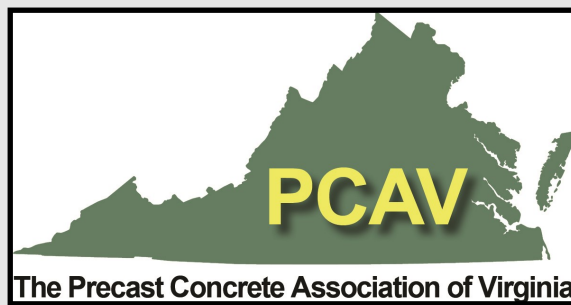
March 4-5, 2021 - Virginia Concrete Conference - Virtual

April 2021 - PCAV Member Meeting - (tentatively in-person, location TBD)

September 2021 - PCAV/VDOT Joint Meeting - Richmond, Virginia

September 2021 - PCAV Training Day - Richmond, VA

November 2021 - PCAV Annual Meeting - Charlottesville, VA



Virginia's Concrete Pipe and Precast Week

For the past six years, Virginia's governors have proclaimed the third week of August Virginia's Pipe and Precast Concrete Week, highlighting the benefits of concrete pipe and precast products to the Commonwealth and its citizens. In "normal" years our producer members would open their plants to legislators, industry partners, and local government for tours and the promotion of the industry's products. For obvious health and safety reasons, in 2020 we went virtual for the week leveraging our newfound technology.

The PCAV partnered with the ACPA and CAPCA for the virtual program. The week began and concluded with "live" sessions on Monday and Friday. Tuesday, Wednesday and Thursday featured "on-demand" recorded tours of two different concrete pipe plants and one precast plant. Before Friday's live webinar, the weeks attendees names were submitted on raffle tickets for a drawing for a YETI 35 cooler. Both the PCAV and CAPCA gave away a YETI so two winners were drawn live Friday morning. The winners picked from a selection of available colors and the YETIs arrived on their doorsteps within days!

2020 Proclamation - Virginia Concrete Pipe and Precast Week

WHEREAS, Virginia's Concrete Pipe and Precast producers, and their industry partners, are essential to Virginia's economy, providing critical building components used in construction and maintenance of infrastructure, transportation corridors, water supply, water treatment systems, solid waste systems, and other structures and facilities essential to serve the citizens of the Commonwealth; and

WHEREAS, reinforced concrete pipe and precast products provide solutions needed for resilient infrastructure, and are of vital importance to sustainable communities and to the health, safety and well-being of the people of Virginia; and

WHEREAS, such reinforced concrete pipe and precast products and services could not be provided without the dedicated efforts of concrete pipe and precast industry manufacturers and engineers who design, manufacture, distribute, educate and supply their products to the Virginians who build, design and perform maintenance in the Commonwealth; and,

WHEREAS, it is in the public interest for the citizens and civic leaders in Virginia to gain knowledge of and maintain a progressive interest and understand the importance of the reinforced concrete pipe and precast industry in their respective communities, and

WHEREAS, 2020 marks the 36th year of the Precast Concrete Association of Virginia, and the 6th year of Virginia's Concrete Pipe and Precast Week promoting awareness of the infrastructure benefits of reinforced concrete pipe and precast concrete products in the Commonwealth, be it now,

RESOLVED, I, *Ralph Northam, Governor of Virginia* do hereby designate August 16-22 as Concrete Pipe and Precast week in the Commonwealth of Virginia, and I call this observance to the attention of our citizens.

"Dedicated to the Growth of the Precast Concrete Industry"

Concrete Pipe and Precast Week Program

2 PDH
Series

Concrete Pipe AND Precast Week

August 17-21,
2020

Virginia & Maryland Concrete Pipe and Precast producers and their industry partners are essential to the Central Atlantic economy; providing critical building components used in construction and maintenance of infrastructure, transportation corridors, water supply, water treatment systems, solid waste systems, and other structures and facilities essential to serve the citizens of the region.

Reinforced concrete pipe and precast products provide solutions needed for resilient infrastructure and are of vital importance to sustainable communities and to the health, safety and well-being of the people of Virginia. Join us as we celebrate Concrete Pipe Week in the Central Atlantic!



Grand Prizes: 2 Yeti® New River Green Coolers will be given away on Friday

CONCRETE PIPE & PRECAST WEEK SCHEDULE & REGISTRATION:

Resilient Infrastructure: Mon, Aug 17, 2020

1 PDH

Register Here: [10:00am-11:00am](#)

CP&P Concrete Pipe Plant Tour: Tues, Aug 18, 2020

¼ PDH

Register Here: [On Demand – Available All Day Tuesday](#)

Rinker Materials Concrete Pipe Plant Tour: Wed, Aug 19, 2020

¼ PDH

Register Here: [On Demand – Available All Day Wednesday](#)

CP&P Concrete Precast Plant Tour: Thursday, Aug 20, 2020

¼ PDH

Register Here: [On Demand – Available All Day Thursday](#)

Concrete Pipe & Precast Week LIVE: Friday, Aug 21, 2020

¼ PDH

Register Here: [10:00am Live Discussion & Yeti® Drawing](#)

Concrete Pipe and Precast Week Program

Tryg Hoff of the ACPA starts the week with a webinar on Resilient Infrastructure

Click to save a picture to your desktop.

Tryg Hoff

SIDEBAR Thermal Strain

$$\epsilon_{\text{(Thermal)}} = \alpha (\Delta T)$$

Where:
 α = Coefficient of Thermal Expansion
 ΔT = Change in Temperature ($^{\circ}\text{F}$)

Thermal strain occurs when changes in temperature cause changes in the dimensions of an object

- These changes happen simultaneously in all directions
- Thermal strain in each direction is the same
- More you heat/cool an object, the larger the magnitude of strain

Material	α ($\times 10^{-6} / ^{\circ}\text{F}$)	Δ_{Length} (100 $^{\circ}\text{F}$ per 20')	Δ_{Circ} (100 $^{\circ}\text{F}$ per 15.7')
Steel	6.1-6.7	0.12 inches	0.09 inches
Concrete	4.1-7.3	0.12 inches	0.09 inches
HDPE	67	1.6 inches	1.26 inches



Resilient Infrastructure

Trygve W. Hoff, PE
 Northeast Region Engineer
 American Concrete Pipe Association
thoff@concretepipe.org

CONCRETE PIPE & PRECAST WEEK SCHEDULE & REGISTRATION:

Resilient Infrastructure: Mon, Aug 17, 2020	1 PDH
Register Here: 10:00am-11:00am	
CP&P Concrete Pipe Plant Tour: Tues, Aug 18, 2020	¾ PDH
Register Here: On Demand – Available All Day Tuesday	
Rinker Materials Concrete Pipe Plant Tour: Wed, Aug 19, 2020	¾ PDH
Register Here: On Demand – Available All Day Wednesday	
CP&P Concrete Precast Plant Tour: Thursday, Aug 20, 2020	¾ PDH
Register Here: On Demand – Available All Day Thursday	
Concrete Pipe & Precast Week LIVE: Friday, Aug 21, 2020	¾ PDH
Register Here: 10:00am Live Discussion & Yeti® Drawing	

The panel assists Tryg by keeping up with questions posted via the chat function and opening up “polls” and sharing the results with the attendees.

Concrete Pipe and Precast Week Program



A barge with a crane transported a container of precast pipe segments donated by Rinker Materials, to the Tangier Sound reef site in an effort to restore marine habitat while improving fishing opportunities for recreational fisherman in the Chesapeake Bay.

Based on the comments, one of the most popular items of the Virginia Concrete Pipe and Precast week program, was the video showcasing the use of precast concrete pipe segments in building up the Tangier Sound Reef. Every pipe and precast concrete plant has broken pieces used for testing but Rinker Material found a use that helped the Chesapeake Bay, with what otherwise would be waste.

Rinker Materials generously donated 21 tractor trailer truck loads carrying several hundred tons of precast concrete pipe sections that were transported to the marine yard in Galesville, Maryland. The Tangier Sound reef will help sustain a well-rounded environment and foster a healthy habitat for robust marine life. The addition of new reef structure like this provides an amazing habitat for a variety of marine life and creates a fantastic recreational destination for sport and commercial fishermen, as well as scuba divers. The deployment of another reef project continues to create vital marine habitat essential for improving the health of the bay while also improving the fishing for recreational anglers.

Webinar attendees were very interested to learn more about this project and wondered if there was more the industry could do as a whole to contribute to building more reefs. They also expressed an interest to see if any underwater footage of the reef was available. We will see what we can do to have a follow up on the health and growth of the reef over time!

Concrete Pipe and Precast Week Program

The finale for the week featured a live webinar with a diverse range of topics.

CONCRETE PIPE & PRECAST WEEK 2020

- **Member Highlight**
 - Permatile Concrete Products
- **Sustainable Concrete Products**
- **Engineer's Right to Choose**
- **Panel Discussion on Precast Concrete**
- **Raffle Drawing**

Resilient Infrastructure: Mon, Aug 17, 2020
 CP&P Concrete Pipe Plant Tour: Tues, Aug 18, 2020
 Rinker Materials Concrete Pipe Plant Tour: Wed, Aug 19, 2020
 CP&P Concrete Precast Plant Tour: Thursday, Aug 20, 2020
 Concrete Pipe & Precast Week LIVE: Friday, Aug 21, 2020

Grand Prizes: 2 Yeti® New River Green Coolers will be given away on Friday



The PCAV, ACPA and CAPCA representatives wrapped up the week by announcing an upcoming fall series of webinars and giving away 2 YETI Coolers! Congratulations to the 2 lucky winners!

PCAV/VDOT Joint Meeting - September 22, 2020

I miss meetings. I must commend PCAV members and industry partners however on their willingness to adapt and adapt quickly. In mid-March I don't think I was alone in believing two weeks, get things under control, and back to normal we go. Quickly it became obvious that we all were really going to have to proceed both personally and professionally on a month by month basis. We have to look at what the current situation is and make plans accordingly. In April, it didn't seem possible that our September Joint Meeting with VDOT would be virtual. But it was and it worked out to be very productive and with no need to travel, we had attendees we normally would not.

Now our hope is that in the Fall of 2021 our meeting will be held in person. I know I will look forward to seeing everyone in-person again. While virtual has been great for many reasons and I am certain we will continue to leverage that technology, there are disadvantages. You can't have side conversations or catch someone for a quick word during a meeting break. Let's all hope life looks very different in Fall 2021!

Pictures of a virtual meeting certainly are different from in person!

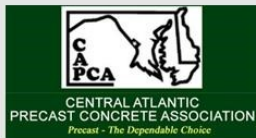


John Zeets of VDOT wins the prize for the best Zoom background! That is one fun “side effect” of virtual meetings - you can show a little personality in a way you couldn't in a regular meeting.

PCAV Fall Educational Series



Please join the ACPA, CAPCA, and the PCAV beginning October 1st through November 12th for a brand new series of Live Webinars.



FALL 2020 SCHEDULE:

Accelerated Precast Construction

Thursday, October 1, 2020
10:00 a.m.
1 PDH

Pipe & Box Construction

Thursday, October 8th, 2020
10:00 a.m.
1 PDH

Pre-Installation Inspection - AASHTO R73

Thursday, October 15, 2020
10:00 a.m.
1 PDH

Dam Specs - ASTM C361:

Thursday, October 22, 2020
10:00 a.m.
1 PDH

The Science of Concrete

Wednesday, October 28, 2020
10:00 a.m.
1 PDH

Precast Innovations

Thursday, October 29, 2020
10:00 a.m.
1 PDH

Pipe Design

Thursday, November 5, 2020
10:00 a.m.
1 PDH

Failures, Case Studies, Lessons Learned

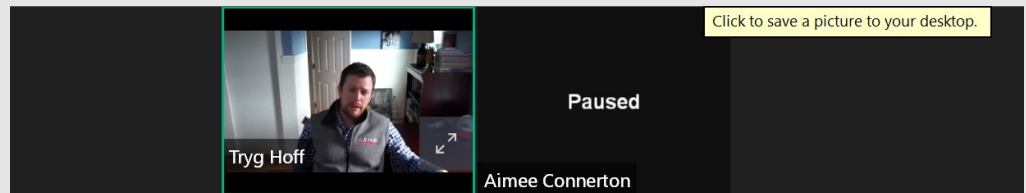
Thursday, November 12, 2020
10:00 a.m.
1 PDH

PCAV Fall Educational Series - con't.

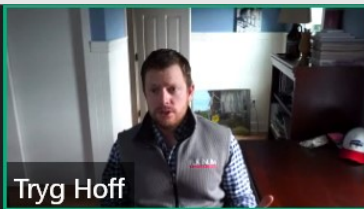
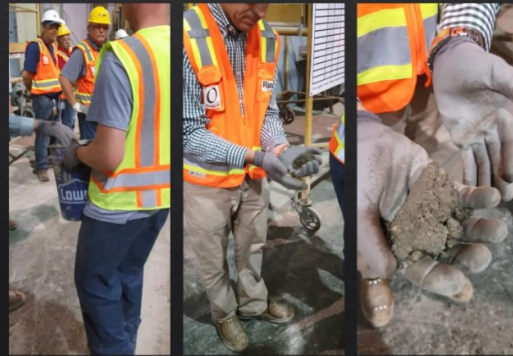
Late 2nd quarter 2020, we were still planning for the possibility we could hold our annual training days in-person while simultaneously planning a potential virtual series. By mid-summer we knew meeting in-person would severely limit our attendees due to non-travel policies and meeting attendee limits by our industry partners as well as our members. The PCAV, ACPA and CAPCA worked together to develop the series.

The presenters put in much time and effort and the product they produced promoting the precast industry is invaluable. We hope to have a library of the recorded webinars available in the new year.

Tryg Hoff of the ACPA kicked off the series with a webinar (all were live and interactive) on Accelerated Precast Construction.

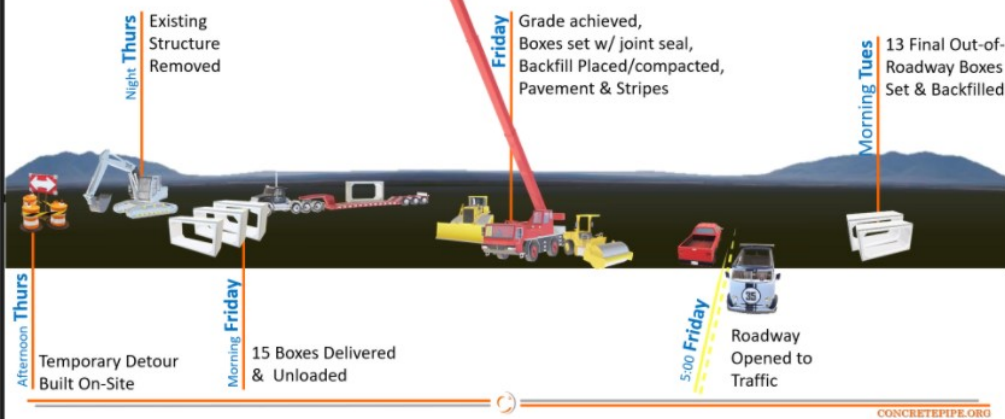


Precast Structures: Production



The Solution:

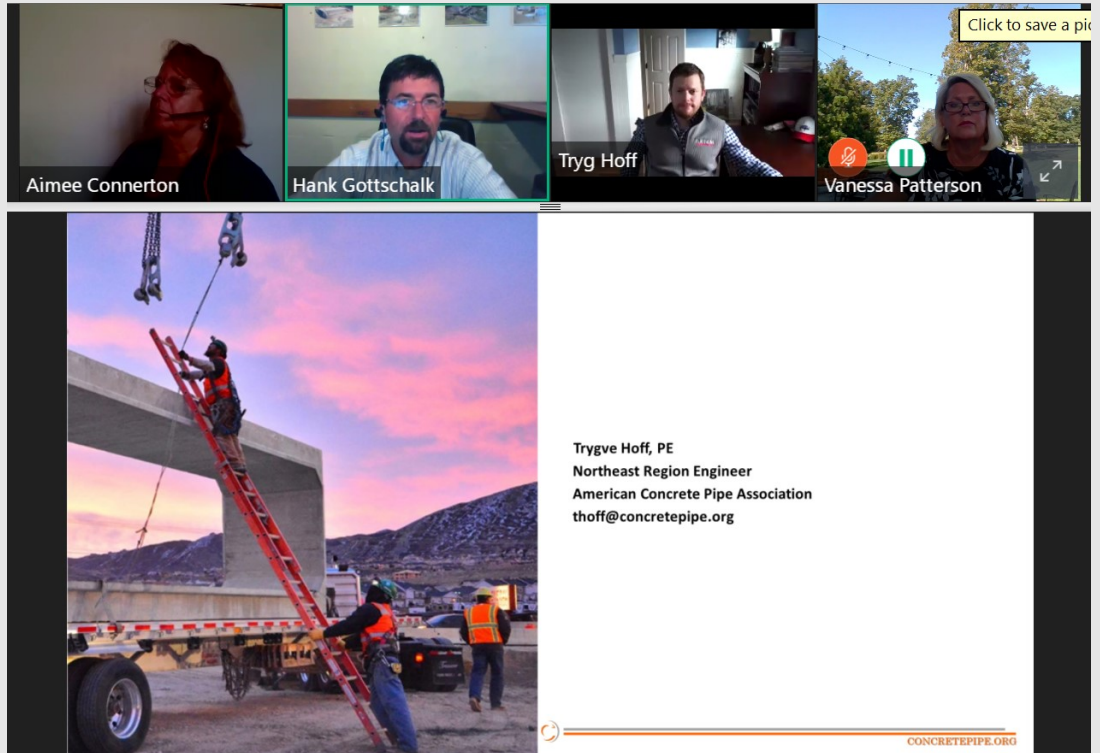
- 8x8 Double Cell Boxes
- 28 pieces @ 40,000 lbs ea



The hour long presentations included slides, videos, polling, use of the chat/question function allowing for answers and discussion in real time.

PCAV Fall Educational Series - con't.

The full panel representing the PCAV, ACPA and CAPCA would open and close each weekly session. Once the webinar began, only the presenter stays on camera, while the other panelists run polls and monitor the chat/question feature.



Click to save a picture to your device

Aimee Connerton

Hank Gottschalk

Trygve Hoff

Vanessa Patterson

Trygve Hoff, PE
Northeast Region Engineer
American Concrete Pipe Association
thoff@concretepipe.org

CONCRETEPIPE.ORG



Click to save a picture to your device

Aimee Connerton

Have you designed or constructed an Embankment in the past?

- ☐ Yes, I designed one.
- ☐ Yes, I constructed one
- ☐ No, have never done one.
- ☐ Not sure



The polling questions, designed by each presenter, helped gauge the audience to whom they were presenting. Once the responses were locked in, the poll results were able to be seen by all.

PCAV Fall Educational Series - con't.

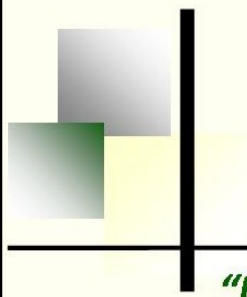
FALL 2020 TRAINING SERIES CAPCA, ACPA, PCAV - SUMMARY

Number Registered	1559
Number Attended	1028
%	66%
Quality of Presentation (1-5 Scale)	712
5	439
%	62%
4	239
%	34%
3	33
%	5%
2	1
%	0%
1	1
%	0%
Recommend to a coworker or other?	715
Yes	703
%	98%
No	12
%	2%
Given this presentation, virtual vs traditional in-person session	714
Yes, virtual	371
%	52%
No preference	285
%	40%
No, in-person	58
%	8%
We will be compiling the videos from this series into a library for online viewing. Would you like to receive a link to share with your colleagues?	113
Yes	97
%	86%
No	16
%	14%

After each session, we received raw data from the webinar program that allowed us to analyze the attendees response to each topic presented. 95% of all attendees rated the presentations as a 4 or 5 on a 5 point scale. 98% would recommend our webinar program to a coworker or peer. The one statistic that pleasantly surprised us was 92% either preferred virtual or had no preference while only 8% preferred in-person.

The PCAV, ACPA and CAPCA look forward to producing another series in 2021. We've noted future topic suggestions and appreciated all the positive comments from our audience.

What's Up Next - PCAV/VDOT Joint Meeting January 2021



PCAV

"Dedicated to the Growth of the Precast Concrete Industry"

SAVE-THE-DATE

PCAV Legislator's Day

Thursday January 21, 2021

8:00 a.m. - 9:30 a.m.

Virtual via Microsoft Teams

Registration to open soon!

The PCAV will join with other business organizations from the Coalition for a Strong Virginia Economy for a virtual legislators meeting during the 2021 General Assembly Day. As the exact format comes together, updates will be provided. Registration will be sent shortly and the meeting link will be sent 24 hours in advance. Members will be able to ask legislators questions. Delegates and Senators from both parties will be invited. Invitations are focusing on the Labor and Commerce committee and General Laws. These two committees are where the majority of issues/bills important to our industry are assigned to be heard.

7:30 a.m. - "Waiting Room" will open

8:00 a.m. - 8:45 a.m. - Legislator Program

8:45 a.m. - 9:30 a.m. - Business Groups Program



The Precast Concrete Association of Virginia

PCAV Business Day on the Hill 2021



PCAV

"Dedicated to the Growth of the Precast Concrete Industry"

SAVE-THE-DATE

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7:30 a.m. - "Waiting Room" will open

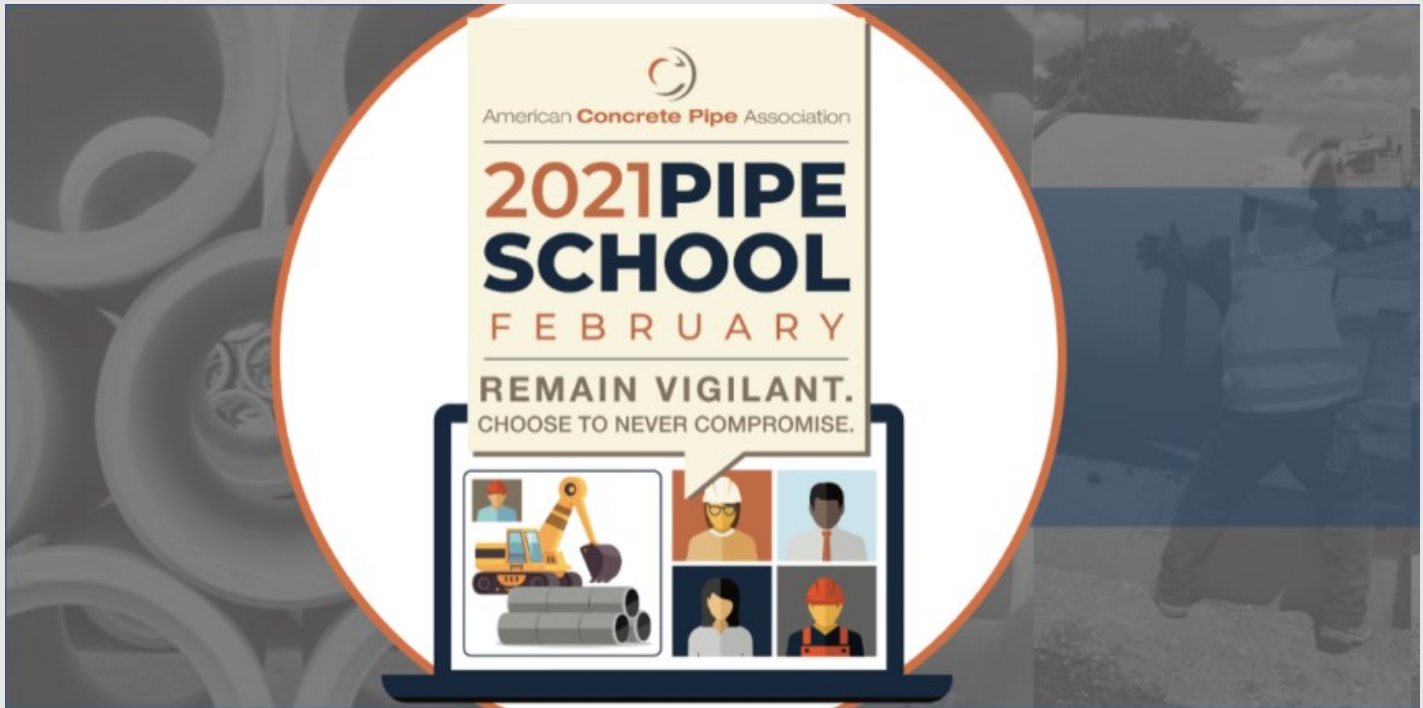
8:00 a.m. - 8:45 a.m. - Legislator Program

8:45 a.m. - 9:30 a.m. - Business Groups Program



The Precast Concrete Association of Virginia

What's Up Next - SAVE-THE-DATE: 2021 ACPA Pipe School



REGISTRATION IS NOW OPEN! <https://pipeschool.org/register/>

Pipe School registration for non-ACPA Members is being facilitated by the University of Virginia (UVA)'s Transportation Training Academy.

In addition to facilitating registration, we will also be using their platform for our *Transportation, Sales & Engineering*, and *Train-the-Trainer* tracks.

To register, simply select how you will be classified and you will be taken to the appropriate registration page. Once registered, you will receive an email (sent by UVA on behalf of the ACPA) with your receipt and confirmation. Login and URL information will be sent to all registrants in the days leading up to Pipe School.

Transportation Agencies

There is no fee for transportation agency attendees at this year's Pipe School. Whether you are with the DOT, a local agency, or municipality, there is no fee to attend this year's school. In order to verify your tie to a transportation agency, you will need to register with your government issued email address. If there is a concern about fees, please contact us at pipeschool@concretepipe.org.

Consultants, Engineers, & Contractors

Pricing for Consultants, Engineers, & Contractors at this year's Pipe School is a flat fee of \$250 per office location.

In order to simplify this process, we request that you coordinate with your office location to see who else will be in attendance. Don't worry, though—we will help you out if there is a miscommunication!

About Virtual Pipe School

Pipe School is the American Concrete Pipe Association (ACPA)'s annual event where members, DOTs, consulting engineers, subject matter experts, and other industry personnel get together to discuss, learn, and engage with one another. The school advances the industry by teaching classes on production, advanced production, and quality, while engaging with industry stakeholders to ensure that they are provided with information vital to their decision making process. Keeping the safety of the participants at the forefront, the 2021 Pipe School will move to a virtual platform, but promises to provide as engaging of presentations and allowing for more participants than ever before.

2021 Virginia Concrete Conference - March 4-5

SAVE-THE-DATE

2021 Annual Virginia Concrete Conference March 4-5, 2021 - Virtual



Concrete: A Proven Solution

Join us for the 2021 Annual Virginia Concrete Conference for the Virginia Transportation Industry. This is our annual forum for the exchange of information and technology transfer with focus on concrete pavements and structures, as well as concrete materials. Emphasis will be placed on technical advancements/improvements and the viability of concrete for transportation applications. Industry and government experts will join us to share their knowledge and experiences in their field of expertise. Don't miss this opportunity to network with the industry's leading professionals as you learn about the latest developments in concrete, pavements, and bridges.

CONFERENCE HIGHLIGHTS

- New Frederick Douglas Memorial Bridge in Washington, DC
- West Virginia Unbonded Overlay Project
- The Value Proposition of Concrete Pipe

WWW.SECEMENT.ORG

Smith-Midland's SlenderWall project in Tysons racking up awards.

Announcements have been made on the latest two awards for Smith-Midland's recent SlenderWall architectural cladding project in Tysons, Virginia. Both the AGC of DC (Associated General Contractors) and the ABC of Metro Washington (Associated Builders and Contractors) have bestowed awards on the 346' tall mixed-use project. The AGC Washington Contractor Award and the ABC Excellence in Construction Award recognized the role Smith-Midland's premier architectural precast concrete cladding product SlenderWall played in the beauty and performance of the project.

SMITH-MIDLAND®
EXCELLENCE IN PRECAST CONCRETE

The AGC Washington Contractor Award and the ABC Excellence in Construction Award recognized the role Smith-Midland's premier architectural precast concrete cladding product SlenderWall played in the beauty and performance of the project.

This is the third award for the Lumen. Earlier this year it garnered a Southeast Building Conference Grand Aurora prize.

On the corner of Route 123 and Route 7, the "original" Tysons Corner, VA, Lennar Multifamily Communities (LMC) is developing the new Tysons Central complex. Lennar Corporation, a Fortune 500 company, is a top ranked player in the home and multi-family market. Tysons Central, a signature hi-density project for LMC, will be connected by walkways to the new Greensboro Station on the DC Metro Silver Line.

Building F, "The Lumen", designed to be a signature structure by the architecture firm Davis, Carter, Scott of Tysons, VA, will be the first in the six building development. The 346-ft, 32-story building, approximately 865-ft rise above sea level, will be the tallest by elevation in the Tysons area, with expansive views of Washington, DC and the Blue Ridge Mountains. The project will include 394,000 square feet of residential space, over 17,000 square feet of ground-floor retail and nine levels of parking. The building will house 398 units on 25 floors with luxury Penthouse units on the top three.

LMC specified SlenderWall® architectural precast concrete panels, a licensed product from Easi-Set Worldwide, for the Lumen's outer envelope. The contractor, Hoar Construction of Vienna, VA, engaged SlenderWall producer Smith-Midland and its Virginia plant to manufacture and install 57,666 sq. ft. (452 panels) of SlenderWall architectural precast and 23,502 sq. ft. (299 panels) of traditional architectural precast. Smith-Midland provided turn-key service on the project, including final joint insulation and caulking.

SlenderWall architectural panels are a unique product, 66% lighter than traditional 6" thick precast. This is achieved by integrating a galvanized interior steel stud frame with the 2" thick precast concrete. These panels will be designed with a 1.5" thermal air gap between the stud from and the precast which will be filled with 3.5" of factory-installed closed-cell foam to achieve an R-24 rating. SlenderWall will play a significant role in the plans for this building to achieve a LEED rating.

SlenderWall is fully compliant with current building codes including fire, windstorm, seismic and thermal requirements. The system is licensed for manufacture to qualified precast concrete companies across North America by Easi-Set Worldwide, a leading product line developer in the precast concrete industry.



Ferguson Enterprises HQ3 - Another Award Winner for Smith-Midland

Rising above the fountained lake at the City Center at Oyster Point, Newport News, VA, the new Ferguson Enterprises HQ3 is reminiscent of a grand ship sailing out of Hampton Roads. This past week the ABC of Central Virginia (Associated Builders and Contractors) presented an Excellence in Construction Award for Specialty Concrete to Smith-Midland for their work on the project.



Ferguson Enterprises is the nation's premier wholesale plumbing supply corporation. The 260,000 sq. ft., eight story building, will house Ferguson's corporate training and development center and various corporate departments.

Smith-Midland provided general contractor, W.M. Jordan, with 28,000 sq. ft. of their premier architectural precast concrete cladding panels, SlenderWall, in a mixture of gray and white acid-etched finishes for the project. The panels were specified with factory-applied closed cell foam insulation providing a R-24 thermal rating.

The Clark Nexsen designed campus also included an array of other Smith-Midland designed precast concrete products: 6,500 sq. ft. of matching traditional architectural precast panels; multiple custom column covers; and 33 uniquely designed charcoal gray landscape benches. The ABC award recognized Smith-Midland's ability to provide multiple integrated solutions, meeting the exacting needs of the owner and the entire construction team.



Ferguson HQ3 is the second project Smith-Midland has teamed with W.M. Jordan and Clark-Nexsen this year. The 24-story Harbor's Edge Tower in Norfolk, VA is currently under construction.

ALP Supply Assists Nansemond Pre-Cast Concrete with Challenging Project

Project Title and Location: The Grove, Chesapeake, Virginia

Date: April 2020

Precaster: Nansemond Pre-Cast Concrete Co.

Project Description: Nansemond Pre-Cast Concrete Co., Inc. was tasked with the challenge of creating a multi section 10' x 10' vault. Unlike ordinary vaults, this unit was a non-symmetrical section, creating an unequal weight distribution. This posed a challenge of how to properly locate lifting anchors to provide for a level lift during multiple lifting sequences, stripping & handling, transporting and final positioning at the jobsite. The main objectives were to provide for a level lifting experience with an efficient, cost effective and safe lifting system.

To assist in finding a solution, Nansemond Pre-Cast contacted ALP Supply's technical service team to provide the best lifting system option and suggest where to locate the anchors. Nansemond Pre-Cast Concrete calculated the center of gravity, while ALP Supply determined that the Utility Lift Anchor System would be the best lifting anchor for the project. A total of 8 LUA86G were properly located in the vault to ensure for equal weight distribution and level lifting and handling.

"We have always been very impressed with ALP's sales and service. Todd Jones has been a huge asset assisting with proper lifting designs." – Nansemond Pre-Cast Concrete Co., Inc.



Todd Jones
Technical Services Director



Winchester Precast Trench Drain Used as Salamander Crossing

GO, SALAMANDERS, GO!

Lauren Poe, Winchester Precast

Winchester Precast has provided many trench drains over the years, but it is not every day that we are asked to design and pour a trench drain to be used as a salamander crossing.

The Salamander Crossing project was proposed in February 2017 by the City of Charlottesville to protect a local Spotted Salamander population that has been impacted by increased traffic off Route 29. Of over 1000 Spotted Salamanders that attempt to cross over Polo Grounds and Rio Mills Road every year, it is estimated that as many as 50% are squashed attempting to migrate to nearby vernal pools to breed. These salamanders then need to cross the road again to return to their forest habitat to hibernate during the cooler months.

With the current traffic and proposed future development off of Rio Mills and Polo Grounds Road in the near future, Winchester Precast was tasked to refine the design for a trench drain and produce the solution to the salamander mortality problem that would not impede current or proposed development in the area.

The Salamander Crossing project posed several challenges during the design and production of the custom trench drain. The most important facet of this structure was that it needed to be usable by the salamanders. For functionality, the trench drain needed a slotted top to allow rainfall and humidity to collect in the drain so that the salamanders could keep moist while in route. Additionally, the slopes of the drain had to be gradual with the inside dimensions large enough for the salamanders, which grow up to 9" in length, to crawl through.

Another factor that led to this projects complexity was pouring the trench drain following the slopes of the jobs sites existing topography; the Spotted Salamanders habitat. For our plant supervisors, this meant wedging foam and manipulating forms to mirror the changing grade throughout each section. When our product reached the field, it was noted that they locked together like puzzle pieces, allowing for speedy installation of over 260 feet of trench drain.

The end result was an eco-friendly salamander crossing that, after meticulous design and refinement, was laid into the existing road with traffic closures minimized and installation optimized. Winchester Precast was honored to be part of a unique project showcasing how precast concrete can be part of the environmentally-friendly future of the construction industry.



Limiting Risk of COVID-19 Spread in the Construction Industry

INNOVATIONS AND ADAPTATIONS WHILE LIMITING RISK

Lauren Poe, Winchester Precast

With COVID-19 still in the forefront of our personal and professional lives, Winchester Precast has found ways to adapt in order to maintain a safe and socially-distant work environment while keeping business-as-usual. With challenges come innovation. Our plant supervisor and office leadership found creative ways to maintain some normalcy during the pandemic.

Early this summer, Plant Supervisor, Vincent Juratovac, put his handiness to use to build two touchless water dispensers that would keep the crew hydrated while minimizing high-touch surfaces and sanitation. With this invention (patent-pending), the crew does not need to touch coolers or the soda machine to quench their thirst. The water station was strategically set up so team members working either indoors or out were able to quickly get fluids without lining up in a breakroom or standing in close quarters.

Additionally four television monitors were set up in departments throughout the plant to conduct virtual safety meetings, announcements and batch mix information. This allowed everyone to maintain safe distances from each other and eliminated the need to crowd together for updates.

Following OSHA and CDC guidelines, as well as the Virginia Department of Labor and Industry's Emergency Temporary Standard SARS CoV-2 Virus That Causes COVID-19, temperature readings and health questionnaires were completed as crews arrived. This kept anyone with a temperature or exhibiting any of the symptoms of COVID-19 from entering the plant. Office staff and plant crew are all required to wear face coverings during the work day. The office has remained closed to the public with pickup transactions occurring over the phone or at a distance. Hand sanitizer has been distributed to all drivers and additional wash stations have been set up in the plant to encourage frequent handwashing.

With innovations and adaptation, the staff and crew have been kept healthy so we can continue to provide precast structures safely around the Commonwealth.



ASTM International Recognizes Hamilton Kent's Director of Innovation for 2nd Time!**ASTM International Recognizes Pardeep Sharma For Second Time**

By Alan Siebenthaler
HK Marketing/Territory Manager

ASTM International Committee C13 on Concrete Pipe has presented the Merlin G. "IB" Spangler Award to Pardeep Sharma for performing "outstanding technical work" during his participation and leadership on the C13 Committee. Pardeep became a member of ASTM International in 2000 and has since been actively involved with the committee and with several C13 subcommittees. He has spent the last 12 years as the vice chairman for subcommittee C13.04. In addition to his service to ASTM Committee C13, Pardeep is also a member of ASTM Committees C27, F17 and F36, and is actively involved with the Canadian Standards Association (CSA International), the American Concrete Pipe Association, and the National Precast Concrete Association.

Pardeep previously received the Robert R. Litehiser Award from ASTM C13 in 2012. He also became the second Hamilton Kent employee to receive the Spangler Award, after former National Accounts Manager Roman Selig was given this honor in 2003.

Pardeep joined Hamilton Kent in 1983, after graduating from the University of Toronto with a degree in industrial engineering. He has held various positions at Hamilton Kent, is a professional engineer in the Province of Ontario, Canada, and currently as Director of Innovation has responsibility for all product innovation, technical support and quality service for the company.



HK Hamilton Kent
Sealing Your Connection

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PCAV PRODUCER MEMBERS

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Permatile Concrete Products Co.	Bristol	Virginia	276-669-5332
Rinker Materials	Frederick	Maryland	301-698-7373
Smith-Midland Corporation	Midland	Virginia	540-439-3266
Faddis Concrete Products	King George	Virginia	540-775-4546
Winchester Precast	Winchester	Virginia	540-667-2301

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Argos-US	Newport News	Virginia	757-880-5631
ASH Venture, LLC	Roanoke	Virginia	888-477-6274
Barchip USA Inc.	Charlotte	North Carolina	704-843-8401
BASF Admixtures	Beechwood	Ohio	610-212-5577
Boral Material Technologies	Reidsville	North Carolina	336-210-7435
Capitol Foundry of Virginia, Inc.	Virginia Beach	Virginia	757-427-9431
CONAC (Concrete Accessories, Inc.)	Duluth	Georgia	770-471-1110
Concrete Sealants, Inc.	Tipp City	Ohio	610-948-7867
Delta Engineers, Architects, & Land Surveyors	Endwell	New York	607-231-6613
EJ USA, Inc.	Richmond	Virginia	804-387-5971
Engineered Wire Products, Inc.	Upper Sandusky	Ohio	419-294-3817
Fullerton & Knowles, P.C.	Clifton	Virginia	703-818-2600
Giant Cement Company	Summerville	South Carolina	843-851-9898
Haarup North America Inc.	Portland	Oregon	503-954-1718
Hamilton Kent , LLC	Lexington	Kentucky	859-553-0849
Insteel Wire Products	Mount Airy	North Carolina	800-334-9504
Lehigh Cement Co.	Union Bridge	Maryland	800-462-9071
M.A. Industries, Inc.	Peachtree City	Georgia	800-241-8250
Martin Marietta Aggregates	Midlothian	Virginia	804-674-9517
Neenah Foundry	Neenah	Wisconsin	804-350-6911
Press-Seal Corporation	Ft. Wayne	Indiana	260-436-0521
Roanoke Cement Co.	Roanoke	Virginia	800.375.9999
SteelCON Supply Co.	Beckley	West Virginia	304-255-1416
Swope & Associates, Inc.	Charles City	Virginia	804-829-5551
The SEFA Group	Lexington	South Carolina	803-520-9000
Trelleborg Pipe Seals	Milford	New Hampshire	800-626-2180
US Foundry (Eagle Manufacturing Group)	Brown Summit	North Carolina	800-527-8380

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Mission Statement

The Precast Concrete Association of Virginia is dedicated to the growth of the precast concrete industry.

We pursue that purpose by educating and partnering with specifiers, installers and end users on the advantages and proper utilization of our products and systems. The association will represent its members in the Commonwealth of Virginia.

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