As I begin my two-year term as President of the Precast Concrete Association of Virginia I want to thank all those who continue to support the efforts of the PCAV. Our meetings are well attended and we continue to receive sponsorships and financial support for the good of the cause. Special thanks to our Executive Vanessa Patterson and Director of Programs, Meredyth Bryant for their professional execution of PCAV operations and to Matthew Smith for his leadership for the past two years.

The member and associate companies along with VDOT and our partners have a lot to be thankful for, and a lot to look forward to. In the second year presenting our case to Virginia Legislators during the 2018 General Assembly Session, we improved our approach and reached even more Senators and Delegates this year. I remind the participants to continue to follow through by providing plant-tours and other opportunities for contact with taxpayers and constituents. We continue to expand our efforts to educate the specifying community about the products and services we provide. We will host two opportunities, one in Richmond and one in the Roanoke area this fall. The PCAV will host these opportunities and the sessions are complementary for all attendees. Please see further details on page 17 of this edition of HardFacts. I look forward to seeing all the good things we will do to provide concrete solutions and improve the quality of life for all Virginians.

After ending a very successful 2017, the PCAV got off to a fast start with back-to-back meetings in Richmond in January 2018. Day One was full of committee meetings, lunch and a working session with our partners at VDOT, followed by an afternoon board meeting. Critical planning for the rest of 2018 got underway. The following day a group of PCAV members participated in the 2nd Annual Legislator’s Day at the General Assembly. The results and impact of those individual meetings with key legislators will be felt for years to come. I cannot stress the importance of these annual outings to visit the Legislators who represent the PCAV member company districts.

We held our Annual Meeting and Golf Tournament in Charlottesville in April of this year. We welcomed a new PCAV President, Ed Page of Concrete Pipe & Precast, and thanked Matthew Smith of Smith-Midland for his two years of service as President. His hard work to head up securing promotional funding from the Southeast Cement Promotion Association (SCPA) has greatly impacted the promotional activities we have been able to pursue to promote and educate specifiers and partners around the state. Under Matthew’s leadership we visited the General Assembly for the first time and held our first PCAV Training Day in Richmond in September 2017. The turnout for that event surpassed our expectations. 2018 is looking even more bright and I look forward to seeing what the rest of the year holds! Please don’t hesitate to contact me at vanessapatterson@gopcav.com
PCAV and VDOT met Tuesday, January 23, 2018 in Richmond, Virginia. The day began with networking time leading up to committee meetings. VDOT personnel joined in time for lunch and to spend time catching up both personally and professionally since our last meeting in September 2017. A joint PCAV/VDOT meeting followed lunch to discuss issues of mutual interest. Casting requirements for MH-1 Covers A and B, increased backfill requirements for precast box culverts, VDOT joint requirements for storm drains and culvert pipe, MASH requirements for temporary concrete barriers, and proprietary system production were among the topics discussed. The afternoon session concluded with a productive board meeting used to plan many of the 2018 activities including the two fall training events, one in Richmond and the other in Roanoke.
SINCERE APPRECIATION FOR THE PCAV’S JANUARY 23, 2018 JOINT MEETING SPONSORS

COFFEE/BEVERAGE SPONSORS:

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- JEPCO sales
- WBS PRECAST
- PERMATILE

LUNCH SPONSORS:

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- Oldcastle Precast
- ROANOKE CEMENT
- SMITH-MIDLAND

DESSERT SPONSORS:

- PRESS-SEAL GASKET CORPORATION
- CAPITOL FOUNDARY OF VIRGINIA, INC.
Early on the morning of Wednesday January 24th, PCAV members headed up the hill to attend the 2018 General Assembly Session after having gathered for a strategy session. The objectives for the day were to meet legislators representing districts within which PCAV plants and offices are located. During the brief meetings a high level overview of the PCAV were given as well as specifics pertaining to the individual member companies. Invitations to visit plants once the 2018 session concluded, were conveyed to the legislators. Each legislator was given a “leave behind” packet that included the PCAV commissioned Economic Impact Report, a “one-pager” highlighting the PCAV mission and key facts about the precast industry as well as any company information the meeting attendee wanted to include. Meetings were held with 24 delegates and senators from around the state.

**DELEGATES:**
- Hyland F. “Buddy” Fowler, Jr.
- S. Chris Jones
- Jeff Campbell
- Israel O'Quinn
- Tony Wilt
- Todd Pillion
- Barry Knight
- Richard “Dickie” Bell
- Benjamin L. Cline
- David Yancey
- Steve Landes

**SENATORS:**
- Lionel Spruill, Sr.
- Ben Chafin
- Scott Surovell
- Emmett Hanger, Jr.
- Bill Carrico
- Mamie Locke
- Bill DeSteph
- Richard H. Black
- Mark D. Obenshain
- John Cosgrove
- John Edwards
- George L. Barker
- Sam Rasoul
PCAV Legislator’s Day January 24, 2018

The Concrete Pipe & Precast group with Delegate Dickie Bell

The Concrete Pipe & Precast group with Senator Lionel Spruill, Sr.
Brandon McConnell and Kelly Hollo- 
man of Nansemond with Delegate 
Chris Jones

Hank Keiper of The SEFA Group with 
Senator Scott Surovell.

Randy McClure of Rinker Materials with Steve Myers, Legislator Aid to Senator 
George Barker.
Proof of the impact a yearly trip to the General Assembly by members of the PCAV companies can make is highlighted by the bill (Senate Bill 807). Several of our members were key to the bill as it finally stands below. There were multiple “Coal Ash” bills this year but testimony and documentation (a PCAV member company had to import their coal ash from Italy) from our membership shaped the outcome that will positively impact the precast industry. It also laid the groundwork for future testimony on issues relating to our industry/businesses. The positive relationships forged with several senators and their offices will on serve to benefit our association for years to come. Thank you all for making the time to come and visit your legislators - the results are worth it!

CHAPTER 632
An Act relating to the closure of coal combustion residuals impoundments and other units; permits; request for proposals for recycling or beneficial use projects.

[§ 807]

Approved March 30, 2018

Be it enacted by the General Assembly of Virginia:

1. § 1. That the Director of the Department of Environmental Quality shall suspend, delay, or defer until July 1, 2019, the issuance of any permit required to provide for the closure of any coal combustion residuals (CCRs) surface impoundment or other CCRs unit that no longer receives CCRs, located within the Chesapeake Bay watershed. The provisions of this section shall not apply to the issuance of any permit required for impoundments where CCRs have already been removed and placed in another impoundment on site, or are being removed from an impoundment, or are being processed in connection with a recycling or beneficial use project.

2. That the owner or operator of any coal combustion residuals (CCRs) surface impoundment or other CCRs unit to which the first enactment of this act applies shall by July 15, 2018, issue a request for proposals for entities to conduct recycling or beneficial use projects for the CCRs at such impoundment or unit. The request for proposals shall require responding entities to provide information from which the owner or operator is able to determine (i) the quantity of CCRs, including CCRs below the unit’s waste boundary, that may be suitable for recycling or beneficial use, including but not limited to encapsulated beneficial uses, such as bricks or concrete, in each such CCRs unit; (ii) the cost of such recycling or beneficial use of such CCRs; and (iii) the potential market demand for material recycled or beneficially used from such CCRs.

3. That no later than November 15, 2018, the owner or operator of each coal combustion residuals (CCRs) surface impoundment or other CCRs unit to which the second enactment of this act applies shall transmit a business plan that compiles the information collected pursuant to clauses (i), (ii), and (iii) of such enactment to the Governor; to the Chairmen of the House Committee on Agriculture, Chesapeake and Natural Resources, the House Committee on Commerce and Labor, the Senate Committee on Agriculture, Conservation and Natural Resources, and the Senate Committee on Commerce and Labor (the Committees); and to the Directors of the Departments of Environmental Quality and Conservation and Recreation (the Departments). Each such owner or operator and each entity that provided the information collected pursuant to clauses (i), (ii), and (iii) of the second enactment of this act shall provide assistance to the Governor, the Committees, and the Departments, upon request.

For well over 100 years, as America’s economy grew, it relied on coal to provide inexpensive, reliable energy. As we shift to cleaner, less carbon-intensive electric power generating technologies, we have closed or converted several coal power stations to clean burning natural gas. As Dominion now transitions to cleaner energy sources of the future they will continue to be responsible for managing coal ash to ensure the communities we call home are safe and environmentally sound.

Coal ash ponds and landfills have been used for decades to store coal ash—a byproduct of producing electricity at coal power stations. Dominion Energy has 11 coal ash ponds at four facilities and six coal ash active landfills at five facilities. In accordance with new EPA rules, Dominion Energy and all energy producers nationwide must close coal ash ponds on these sites. They are moving to safely and permanently close these ponds while meeting or exceeding all federal, state, and local regulations. In 2018, they started the process of closing 6 of the 11 ash ponds where ash has already been or will be removed from the ponds. Four ponds at Passour Point Power Station and two ponds at Bremo Power Station will be closed in accordance with all applicable federal, state and local environmental regulations and necessary permits. Once permits are obtained, the ponds are expected to be permanently closed by the end of 2019. Groundwater monitoring and reporting will continue even after the ponds are closed.

In 2018, Dominion Energy will seek proposals to determine the feasibility and costs of recycling ash from the remaining ponds and facilities at Chesapeake Energy Center. The results of that analysis will be provided to stakeholders and the General Assembly by November 15, 2018. In 2017, at the direction of the Virginia General Assembly, Dominion Energy reported on closure options for 11 ash ponds at four of our Virginia power stations were assessed. They hired AECOM, an engineering firm with broad experience in environmental engineering, including previous assessments of ash pond closure options in other regions of the U.S. to conduct the report.

Dominion asked them to evaluate the environmental and community impacts, safety, costs and timeline for closing the ash ponds. This included capping and closing the ponds in place, placing the coal ash in a lined landfill as well as removing and recycling it. The study was peer reviewed by a technical expert from Old Dominion University Research Foundation.
Golfing in April in Charlottesville, Virginia has its challenges! In 2017 we were rained out after a 4-day monsoon and in 2018 we had to get our winter clothes back out! Braving wind chill in the 30’s, even midday, the PCAV golfers proved to be a hearty group! A very rough and long winter made for added challenges as course conditions were a bit rough! 18 PCAV golfers hit the Meadowcreek Golf Course and despite cold temperatures and a brisk wind, much fun was had by all!

The day began with networking during time at the driving range. The pre-tournament meeting was one last opportunity for warmth as it was held inside the clubhouse to go over the rules and to thank the many sponsors! Golfers got underway at 11:00 a.m. with a boxed lunch in hand. Kevin Keaton of Neenah Foundry volunteered to drive the beverage cart, braving the cold to deliver refreshments to the golfers as they made their way around the course.

PCAV played Captain’s Choice with 9 teams of two players. The team with the lowest overall score was the winner of the 1st flight and the team with the 5th lowest score was the winner of the 2nd flight. There was a tie for 5th that was decided according to tournament rules. Trophies and prizes were given out during the evening reception and dinner held at the Charlottesville Omni. Photos of the winners are featured on pages 12 and 13.
### TOURNAMENT RESULTS:

**Winner - 1st Flight**  
Scott Crumpler  
Concrete Pipe & Precast  
&  
Nick Talley  
M.A. Industries

**Winner - 2nd Flight**  
Darrell Wilson  
Boral Materials

### CONTEST RESULTS:

**Closest to the Pin:**  
Greg Ouimette  
Oldcastle Precast

**Longest Drive:**  
Nick Talley  
M.A. Industries

**Longest Putt:**  
Scott Crumpler  
Concrete Pipe & Precast
PCAV’s Annual Golf Tournament - Thank You Sponsors!

**BEVERAGE SPONSOR:**

**POST-TOURNAMENT REFRESHMENT SPONSOR:**

**LONGEST DRIVE:**

**CLOSEST TO THE PIN:**

**GOLF PRIZE SPONSOR:**

**HOLE SPONSORS:**
For the third year, PCAV members gathered for the Annual Meeting in Charlottesville, Virginia. This year, while it did not rain for the PCAV Annual Golf Tournament, it sure was chilly! Wind chill in the 30’s did not dampen the golfers spirits but they were glad to return to the warmth of the hotel and enjoy an evening of networking and comradery with their fellow members.

The evening began with a reception sponsored by Nansemond Precast and dinner sponsored by Smith-Midland. Following dinner, Golf Chair Darrell Wilson of Boral Materials announced the results of the tournament.

Photos are on page 11-12.
Nick Talley of M.A. Industries and Scott Crumpler of Concrete Pipe & Precast were the overall winners/1st place/1st Flight of the PCAV Golf Tournament.

Darrell Wilson, team of 1 due to a last minute cancellation, and after a tie break, was the winner of the 2nd flight.
Closest to the Pin: Greg Ouimette

Longest Putt: Scott Crumpler

Longest Drive: Nick Talley

Nick Talley - M.A. Industries, Scott Crumpler - Concrete Pipe & Precast, Greg Ouimette - Oldcastle Precast
ACPA
Trygve Hoff

BASF Corporation
Eric Wetzel

Boral Material Technologies
Darrell Wilson

Capitol Foundry
David Poole

CONAC
Tony Chinn

Concrete Pipe & Precast
Scott Crumpler
Ed Page

Delta - EAS
Daryl Burns
Mandie Burns

EJ USA
Lars Halvorsen

Engineered Wire Products
Jim Clark

GCP Applied Technologies
Benjamin Cota

Faddis
Jerry McNeal

Hamilton Kent
Marcus Barnett

Insteel Wire Products
Shane Presley

JEPCO Sales
Ed Pennypacker
Carol Pennypacker

M.A. Industries
Nick Talley

Martin Marietta
Ben Steele

Nansemond
Brandon McConnell
Leigh Ann McConnell

Neenah Foundry
Kevin Keaton

Oldcastle Precast
Paul Sherman
Greg Ouimette
Steve Wilcox
Frank Sisk

Permatile
Mimi Coles

Press-Seal Corporation
Matt Tomkinson

Rinker Materials
Randy McClure

Roanoke Cement
Mike Zito

SEFA Group
Hank Keiper

Smith Midland
Matthew Smith

Swope & Associates
Brad Meyers

Trelleborg Pipe Seals
Michael Durkin

US Foundry
John Wellenhofer

Winchester Precast
Wick McNeely

VDOT
Andy Babish
Kendal Walus
Larry Hedgepeth
Kwame Sakyi-Bekoe
Susan Keen
Chuck Patterson
Bryant Lowery
Thomas E. (Ed) Darby

PCAV
Vanessa Patterson
Meredyth Bryant
“VDOT Structure & Bridge Division Update”

Mr. Walus is the State Structure and Bridge Engineer for the Virginia Department of Transportation (VDOT) where he is responsible for the statewide multi-faceted structure and bridge engineering program. He serves as administrator of the agency Structure and Bridge Division providing executive level leadership over multi-million dollar engineering programs and projects through critical review and approval of engineering plans, consultation with state and local officials and private sector consultants. Prior to his appointment to his current position, he has worked in both the private and public sectors. He earned his B.S. and M.E. degrees in Civil Engineering from the Virginia Military Institute and the University of Virginia, respectively, and an MBA degree from the Virginia Commonwealth University. He is a registered professional engineer in Virginia and serves as a member on one AASHTO Technical Committee.

“PCAV & the 2018 General Assembly”

The Virginia General Assembly offers a great opportunity for ordinary citizens to get involved in the legislative process and potentially influence future laws of the Commonwealth. Legislators are very accessible during session, and they welcome citizen input due to the huge variety of issues that arise during a session. This presentation recounted one member’s (not a professional lobbyist) experiences and lessons in the General Assembly over the past two sessions regarding coal ash legislation. A very brief assessment of the current fly ash situation in Virginia will help set the stage for the legislative action.

Hank Keiper is the Area Manager, Eastern Virginia, Maryland, and Delaware for The SEFA Group responsible for fly ash sales and technical service in those markets. Hank graduated from the Air Force Academy in 1985 with a BS in Civil Engineering, and later earned a Masters in Building Construction from the University of Florida. Since serving as an Air Force Engineering officer, he held several positions in heavy construction, ready mix concrete, and fly ash service and marketing. He serves on several ACI International committees and is a regular author and speaker at ACI and the National Ready Mix Concrete Association.

“Batch Testing Requirements for VDOT Prestressed Concrete Projects”

Thomas E. (Ed) Darby, III, P.E. works in VDOT’s Materials Division in Sandston, VA, in the Structures Section that manages third party inspection in Steel Fabrication Shops and Prestressed Concrete Plants. He received his Bachelor of Science in Civil Engineering from VMI in 1986 and a Master of Engineering from UVA in 1988. While working toward his degree in Charlottesville he was employed at the Virginia Transportation Research Council working in the concrete team for Dr. Celik Ozyildirim, PhD. He went on to the Engineer Officer Basic Course at Ft. Belvoir and joined the Virginia Army National Guard before beginning his career in Civil Engineering. He has worked for Michael Baker, Inc, SITE Blauvelt Corp, URS Corp, and VDOT’s Bridge Division, before accepting his current job in the Materials Division in 2005. He is a Certified Level III Quality Assurance inspector with PCI, an AWS Certified Welding Inspector and an active member in the American Society for Nondestructive Testing (ASNT). Mr. Darby discussed the requirements for obtaining concrete mix design approval for prestressed concrete projects with VDOT.
SINCERE APPRECIATION FOR THE PCAV’S 2018 ANNUAL MEETING SPONSORS

APRIL 17TH RECEPTION SPONSORS:

NPCC
Nansemond Pre-Cast Concrete Co., Inc.

APRIL 17TH DINNER SPONSOR:

Smith-Midland®
Excellence in Precast Concrete

APRIL 18TH LUNCH SPONSORS:

CONAC
Concrete Product Solutions

DELTA
Engineers, Architects, & Land Surveyors

Roanoke Cement™
A Titan America Business

GENERAL MEETING SPONSORS:

M A. Industries, Inc.

Press-Seal Corporation
SAVE THE DATE!
PRECAST CONCRETE ASSOCIATION of VIRGINIA
2018 ANNUAL TRAINING DAYS (6 PDH Credits) - 8:00 a.m. - 3:30 p.m.
Richmond, Virginia—Wednesday, September 26th, 2018
Roanoke, Virginia—Date coming soon in October/November!

2018 PRESENTATION TOPICS

PROPER PIPE INSTALLATION Presented by Concrete Pipe & Precast
A properly installed pipe should remain in service for 50 to 100 years with little or no repair. This session promotes a solid understanding of installation, specifications, design requirements and material differences for pipe systems. Empower your staff with the ability to properly inspect, design, install and accept both flexible and rigid pipe systems. Empower your inspectors and installation crews with knowledge on proper installation practices.

RESILIENT INFRASTRUCTURE Presented by The NPCA
This presentation focuses on the importance of resiliency in infrastructure construction. Attendees will be able to identify incentives for resilient construction; describe key factors for resiliency against disasters such as flooding, fires and high wind events; and determine what systems work best based on relevant case studies.

TECHNICAL POSTER SESSION Presented by ACPA
Imagine capturing the key points of a speaker's presentation in 5 minutes, then being able to ask that speaker a few questions you might not ask in a classroom. The Technical Poster Session brings professionals from DOT, Public Works, and PCAV member companies together for a sharing of best practices and success stories. Come hear their presentation, you may learn something that helps shape a new strategy.

LUNCH - “INNOVATION: IT’S IN THE BRAIN!” Presented by the NPCA
This luncheon topic will describe aspects of the human brain that can lead to improved personalization, productivity and encourage innovative design. They will also be able to apply brain basics to improve personal productivity/innovation, and apply collaboration tools that build on brain basics to produce more innovative designs. Attendees will discuss unconventional and innovative use of precast concrete.

POST INSTALLATION INSPECTION Presented by Rinker
It’s in the owner’s best interest to know that all the pipe in their system has been properly installed and has not been damaged in some way that will threaten the structure of the system or shorten the anticipated design life of the pipeline. Post Installation Inspection provides that proof of proper installation and structural integrity to the owner prior to project close-out or final acceptance. This class highlights some of the basic pipe performance.

STORMWATER SOLUTIONS Presented by the NPCA
This presentation will focus on how precast structures can be used for low impact development (LID) applications. Attendees will be able to identify precast products that can be used in specific LID situations and describe stormwater treatment systems that can be incorporated into precast concrete structures. They will also be able to determine what resources and supplies are available in an area to further explore precast related options.

REGISTRATION OPENS SOON!
Please see our website www.gopcav.com or email: vanessapatterson@gopcav.com
The American Concrete Pipe Association is celebrating Concrete Pipe Week from August 19 – 25, by requesting state Governors to recognize Concrete Pipe Week across America with proclamations from their states. Thirty states representing nearly 75 percent of the U.S. population issued proclamations recognizing Concrete Pipe Week in 2017. In 2016, 26 states representing 64 percent of the U.S. population issued proclamations. The event launched in 2015 generated proclamations in 11 states that year, accounting for about one-quarter of the U.S. population. It is clear that Concrete Pipe Week has traction in industry and government. Let’s work to make Concrete Pipe Week 2018 the best ever.

Contact Walt Catlett if you need help in organizing an event.
### PCAV PRODUCER MEMBERS

<table>
<thead>
<tr>
<th>MEMBER</th>
<th>CITY</th>
<th>STATE</th>
<th>TELEPHONE</th>
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<tr>
<td>Concrete Pipe &amp; Precast, LLC</td>
<td>Ashland</td>
<td>Virginia</td>
<td>804-798-6068</td>
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<td>Nansemond Pre-cast Concrete Co. Inc.</td>
<td>Suffolk</td>
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<td>757-538-2761</td>
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<td>Oldcastle Precast</td>
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<td>Permatile Concrete Products Co.</td>
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<td>Rinker Materials</td>
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<td>301-698-7373</td>
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<td>Smith-Midland Corporation</td>
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<td>Faddis Concrete Products</td>
<td>King George</td>
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<td>Winchester Precast</td>
<td>Winchester</td>
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<td>540-667-2301</td>
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### PCAV ASSOCIATE MEMBERS

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<td>A.L. Patterson, Inc.</td>
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<td>Wisconsin</td>
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<td>800-443-6767</td>
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<td>SteelCON Supply Co.</td>
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<td>West Virginia</td>
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<td>Charles City</td>
<td>Virginia</td>
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<td>The SEFA Group</td>
<td>Lexington</td>
<td>South Carolina</td>
<td>803-520-9000</td>
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<td>Trelleborg Pipe Seals</td>
<td>Milford</td>
<td>New Hampshire</td>
<td>800-626-2180</td>
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<td>US Foundry (Eagle Manufacturing Group)</td>
<td>Brown Summit</td>
<td>North Carolina</td>
<td>800-527-8380</td>
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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.

If you have received this newsletter as a forwarded email, please go to http://www.gopcav.com and subscribe.

Please forward this newsletter to your colleagues, business associates, vendors and prospects and ask them to visit www.gopcav.com to subscribe as well.

PCAV Officers & Directors

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