VIRGINIA ASPHALT ASSOCIATION

2016 FALL ASPHALT CONFERENCE & EXPO

QUALITY AND INNOVATION

ON-SITE PROGRAM

OCTOBER 3-5, 2016

RICHMOND MARRIOTT DOWNTOWN

VAASPHALT.ORG/VAA-CONFERENCES
Welcome to the Virginia Asphalt Association’s 30th Fall Asphalt Conference and 1st Asphalt Expo. Since its inception in 1986, the Fall Asphalt Conference has showcased Virginia’s asphalt related agency programs, funding, technical issues, research, innovative projects and products, specifications, and much more. The conference brings together Virginia’s asphalt paving industry, VDOT, FHWA, municipalities, consultants and other interested parties to hear, learn and discuss issues impacting the design, construction, maintenance and rehabilitation of asphalt pavements in Virginia.

The Fall Asphalt Conference is also the forum where quality in asphalt paving is recognized through the VDOT Construction and Maintenance Asphalt Paving awards program and the “Virginia’s Best” paving award program for non VDOT asphalt paving projects.

There have been tremendous advances and changes in asphalt technology over the past thirty years. New mix design methodologies, binder enhancements, mix additives, advances in paving equipment, all have contributed to longer service lives for asphalt pavements. Through it all, quality of the finished product still remains the most critical component in achieving this longer life.

Therefore, we have chosen Quality and Innovation as the theme for the 30th Fall Asphalt Conference and will kick off the conference with a keynote address on “Creating a Quality & Innovation Culture.”

Also, it is with great pleasure and excitement that we have launched Virginia’s 1st Asphalt Expo. The expo brings the industry’s leading manufacturers and service providers in the asphalt, pavement maintenance, and traffic safety industry sectors together to showcase their latest products and technologies. Many of the products and technologies discussed during the conference will be represented at the expo.

We hope you enjoy the 30th Fall Asphalt Conference and 1st Asphalt Expo and will continue to support this conference in the future.

KEYNOTE ADDRESS:
CREATING A QUALITY & INNOVATION CULTURE

C. J. Potts, President, Milestone Contractors, LP

Milestone is not just a company; it is people, a family and the greatest collection of construction professionals anywhere. Our key to success starts with five core values; Provide a SAFE work environment; produce and construct the highest QUALITY finished product; be a PERFORMANCE LEADER in every line of business we offer; meet or exceed all PRODUCTION expectations; and provide a PROFIT for our owners. And it must be in that order, Safety, Quality, Performance, Production and Profit. Employees have a natural tendency to believe that the work they produce is high quality and they want their co-workers to share their commitment to quality. Greater efficiency and increased productivity comes from helping team members identify what is necessary on their part to achieve a quality product and provide a PROFIT for our owners.

C. J. Potts is President of Milestone Contractors, L.P., a privately held, fully integrated highway, heavy construction, and site-development general contractor, providing construction services primarily within the state of Indiana. Milestone is part of the Indianapolis-based Heritage Group, a privately-held group of companies with interests in petroleum refining, aggregate production, asphalt marketing, environmental services, industrial services, and safety in addition to construction.

NEW THIS YEAR!

2016 ASPHALT EXPO

The 2016 VAA Fall Asphalt Conference ushers in a new era for VAA as we launch the Asphalt Expo, an asphalt industry themed tradeshow and the only event of its kind in Virginia.

The Grand Ballroom of the Richmond Marriott has been turned into an exhibit hall where conference attendees will have the opportunity to see and interact with the asphalt industry’s leading equipment manufacturers, additive suppliers, and service providers. The list and variety of Expo vendors is impressive and there will be ample opportunity for all to experience the Expo as all conference breaks, lunches and receptions will be in the exhibit hall.
**Monday, October 3**

8:30 to 10:00 am  
**Meeting Registration & Break Service**

10:00 to 10:10 am  
**Welcome**  
*Kenneth W. Arthur, 2016 VAA President, Boxley*

It is my pleasure to welcome all of you to the 30th VAA Fall Asphalt Conference. This unique annual gathering brings together key representatives from the asphalt paving industry, VDOT, municipalities, Virginia’s asphalt research community, and other interested parties to review and discuss issues related to providing long lasting, quality oriented asphalt pavements. We are excited about our new location, the Richmond Marriott Downtown, the launch of our Asphalt Expo, and the expanded program format. I hope you enjoy your participation in this year’s Conference and encourage each of you to make the most of this time together. Try to meet and engage in conversation with the many attendees at the conference. Learn something that helps you in your work and return next year!

10:10 to 10:50 am  
**KEYNOTE ADDRESS: Commitment to Quality**  
*C. J. Potts, President, Milestone Contractors, LP*  
(See description on previous page.)

10:50 to 11:50 am  
**Virginia Asphalt Pavement Awards**  
VDOT 2015 Pavement Awards Presentations  
*Andy Babish, State Materials Engineer, VDOT*  
- Best Construction Project  
- Best Maintenance Resurfacing Project  

Each year VDOT and VAA come together to select and recognize the best quality VDOT asphalt pavement construction and pavement maintenance projects in each of VDOT’s nine highway districts from the previous year. From these candidates a “best in state” winner is selected and the winning contractor and district personnel are recognized.

VAA 2015 Virginia’s Best (non VDOT)  
**Asphalt Paving Awards**  
*Michael C. Dudley, Director of Technical Services, VAA*

The “Virginia’s Best” awards program recognizes the most outstanding examples of non VDOT projects constructed during the previous years. Due to the variety and unique nature of the various paving markets, awards are given in four different categories:

- Commercial  
- Municipal  
- Non-Traditional  
- Green

11:50 am to 12:00 pm  
**Expo Opening Ribbon Cutting Ceremony**

Join us for the ribbon cutting & grand opening of the VAA ASPHALT EXPO in the Marriott main ballroom. The asphalt industry’s leading manufacturers and service providers in the aggregate, asphalt, pavement maintenance, paving services, equipment and traffic safety industry sectors have come together to showcase their latest products and technologies.

12:00 to 1:00 pm  
**Exhibit Hall Opens (food and drinks available in the Expo)**

1:00 to 1:30 pm  
**Directions in Virginia Transportation**  
*Aubrey L. Layne, Jr., Secretary of Transportation*

There are several major transportation projects in the pipeline thanks to new legislation that allows state leaders to prioritize transportation projects in a different way. Virginia has a significant number of major projects on its six-year plan from the new express lanes on I-66 to the widening of I-64 in Hampton Roads. Secretary Layne’s remarks will highlight some of the more significant transportation challenges facing Virginia.

1:30 to 2:00 pm  
**Commissioner’s Remarks**  
*Charles A. Kilpatrick, Commissioner, VDOT*

VDOT is responsible for delivering Virginia’s complex transportation program as well as maintaining and upgrading the system that is currently in place. Commissioner Kilpatrick leads that effort and has made VDOT a recognized leader in design-build and other innovative strategies that address Virginia’s diverse transportation needs. He will discuss VDOT’s efforts to deliver transportation projects faster and more efficiently, while minimizing the impact to the Commonwealth’s traveling public.

2:00 to 2:30 pm  
**FHWA Programs and Initiatives**  
*Jessie Yung, Administrator, Virginia Division FHWA*

MAP-21, the Moving Ahead for Progress in the 21st Century Act, was signed into law by President Obama on July 6, 2012. Funding surface transportation programs at over $105 billion for fiscal years (FY) 2013 and 2014, MAP-21 is the first long-term highway authorization enacted since 2005. Ms. Yung, Virginia FHWA new Division Administrator, has been asked to address several of the new programs and initiatives associated with MAP-21.
2:30 to 3:00 pm
**VDOT Workforce Development**  
*Quintin Elliott, Chief Deputy Commissioner, VDOT*

The Virginia Department of Transportation is concerned about the majority of its workforce being eligible to retire within the next 10 years and is implementing strategies to meet upcoming employment demands that will help create a diverse, skilled workforce in the years ahead. VDOT Chief Deputy Commissioner Quinton Elliott has been asked to discuss VDOT efforts designed to expose high school students to careers in transportation, expand diversity in employment, increase apprenticeship participation, and increase training resources and opportunities for highway construction jobs throughout the Commonwealth of Virginia.

3:00 to 3:30 pm
**Break in Exhibit Hall**

3:30 to 4:55 pm
**Chief Engineer’s District Engineers Panel**  
*Garrett Moore, Chief Engineer, VDOT; moderator*
- Mike Branham, Maintenance Engineer, Bristol
- John Lynch, District Engineer, Culpeper
- Marcie Parker, District Engineer, Fredericksburg
- Randy Kiser, District Engineer, Staunton
- Kenneth King, District Engineer, Salem
- Bill Cuttler, District Construction Engineer, NOVA
- Christopher Winstead, District Engineer, Lynchburg
- Rob Cary, District Engineer, Richmond
- James Utterback, District Engineer, Hampton Roads

One of the highlights of the Fall Asphalt Conference is the Chief Engineer’s Panel, led by VDOT Chief Engineer, Garrett Moore. The District Engineers from each of VDOT’s nine highway districts share the programs, efforts and unique challenges of maintaining, upgrading and constructing the transportation assets at the district level. Chief Engineer Moore will discuss and highlight the implementation of VDOT directives at the central office and district level.

4:55 to 5:00 pm
**Closing Remarks**  
*Richard J. Schreck, Executive Vice President, VAA*

5:00 to 6:00 pm
**Networking Reception in Exhibit Hall**

8:00 to 10:00 pm
**Hospitality Suite Open – Presidential Suite**

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8:00 to 9:00 am
**Registration**

9:00 to 9:05 am
**Welcome**  
*David G. Helmick, Jr., 2016 VAA Vice President, Superior Paving Corporation*

Welcome to the second day technical sessions of the VAA Fall Asphalt Conference, where we discuss the latest in asphalt related research, VDOT demonstration projects, and new technologies tried or constructed in Virginia over the past year. The partnerships and the shared perspectives between Industry and VDOT, as shown in these presentations, seeks to improve the performance of Virginia’s asphalt pavements and mixes in a cost effective manner.

9:05 to 9:30 am
**Keeping Industry and VDOT Workforces Safe on the Job**  
*Kenneth Olsen, Safety Director, Slurry Pavers, Inc.*

As Virginia’s highway infrastructure ages, the primary focusing of VDOT is rebuilding and improving existing roadways. This means most roadwork is performed on roadways that are open to traffic. At the same time, traffic continues to grow and create more congestion, particularly in urban areas, resulting in much of our paving being performed at night. Most highway work zone workers frequently operate in conditions involving the number one focus of everyone on the jobsite. Their lives and that of the traveling public depend on it.

9:30 to 10:00 am
**VECAT 2017: On The Go**  
*Carter Iseman, Director of Training & Development, VAA*

Virginia Education Center for Asphalt Technology (VECAT) is a partnership between Virginia Asphalt Association, Virginia Department of Transportation and Germanna Community College. VECAT is focused on changes to the asphalt-related materials certification classes, the initiation of an asphalt technologist apprenticeship program and eventually an asphalt technologist associate’s degree. Germanna will offer training at its Joseph R. Daniel Technology Center in Culpeper and at its Fredericksburg Campus. Training is also available online as a replacement for VDOT’s former self-study program classes.
10:00 to 10:30 am  
**VDOT State of Good Repair Program and Project Requirements**  
*Jennifer Ahlin, Division Administrator, Asset Management Division, VDOT*

The State of Good Repair (SGR) program was slated to begin in fiscal year 2020, but with an improved revenue outlook the program started in July of 2016 (FY17). To meet the revised deadline, VDOT has been working on the funding prioritization process for pavements and bridges. For pavements, VDOT identified 27,100 deteriorated interstate and primary lane miles. Locally maintained deteriorated primary extension lane miles totaled 3,610 lane miles. To fix all this pavement would cost more than $1.4 billion.

10:30 to 11:00 am  
**Break in Exhibit Hall**

11:00 to 11:30 am  
**VDOT Mix Design Task Force**  
*Benjamin F. Bowers, Research Scientist, VTRC*

In 2016, the VDOT Materials established the VDOT Mix Design Task Force for the purpose of “efficiently gathering information to help us improve our mixes and continue work toward providing informed, focused feedback to our leadership about ways to improve the quality of our asphalt mix designs – both in plant production and field placement controls.” The Task Force is collecting national and Virginia information about ongoing work to improve asphalt mix design procedures and field performance.

11:30 am to 12:00 pm  
**Fast Track Concrete Pavement Reconstruction – Terminal Boulevard, Norfolk, VA**

- **VDOT Perspective**  
  *Mitch Conner, HR Area Construction Engineer, VDOT*
- **Contractor's Story**  
  *Dennis O’Connor, District Manager, Virginia Paving Company*

Terminal Boulevard was constructed in 1967 as a continually reinforced concrete pavement section with curb and gutter, and is approximately 2 miles in length. The roadway supports a heavy truck volume as it provides access to the South Gate of the Norfolk International Terminal of the Port. The heavy truck and traffic volume deteriorated the roadway and the pavement was in poor condition. Reconstruction efforts were hampered by site conditions, traffic demands and limitations on closure.

12:00 to 1:00 pm  
**Lunch in Exhibit Hall**

1:00 to 2:10 pm  
**Micro Session: Roadway Density – Is it Time for Change?**

- **Compaction and Permeability of Asphalt Concrete – A Review of Virginia’s Acceptance Program**  
  *Kevin McGhee, Assoc. Principal Research Scientist, VTRC*

- **2016 Field Density Pilot Projects**
  - **VDOT Perspective**  
    *Rob Crandol, Assistant State Materials Engineer, VDOT*
  - **Contractor’s Perspective**  
    *Chris Blevins, Vice President of Operations, W-L Construction & Paving, Inc.*

- **FHWA High Density Initiative**
  - **Agency Perspective**  
    *Rob Crandol, Assistant State Materials Engineer, VDOT*
  - **Contractor’s Perspective**  
    *Dave Wyant, Quality Control Manager, S. L. Williamson Co., Inc.*

VDOT acceptance of compaction for dense-graded asphalt concrete has been thin lift nuclear gauge roller pattern and control strip based specification since the mid 1980’s. Concern has been expressed by some within VDOT that the resulting densities are too low so pilot projects incentivizing pavement density were included in the 2016 schedule work. There is also a FHWA national density initiative and VDOT was one of ten state DOTs selected for a High Density Demonstration Project. VDOT will work with FHWA to analyze results and propose ways to improve in-place compaction of asphalt mixes.

2:10 to 2:40 pm  
**VDOT High Polymer Initiative**

- **Overview, Analysis & Implementation**  
  *Benjamin F. Bowers, Research Scientist, VTRC*
- **Field Applications**  
  *David Shells, NOVA District Materials Engineer, NOVA*

Polymer-modified asphalt binders (PMB) often contain up to 2.5% by weight Styrene-Butadiene-Styrene (SBS) copolymer and have been used for many years to increase performance of asphalt mixtures. This study will evaluate highly polymer-modified asphalt (HiMA) binders, which contain up to 7.5% SBS copolymer. The primary application of this binder is reflective crack mitigation; however, the outcomes of the study may also indicate whether HiMA is a strong candidate for construction of longer lasting thin pavements where a thin lift is required. This study will evaluate both laboratory-produced and field-produced mixtures.
2:40 to 3:10 pm
**Pavement Marking Issues, Challenges and Specification Changes**
- **VDOT Perspective**
  Dale Totten, Assistant District Administrator, Lynchburg
- **Pavement Marking Contractor Perspective**
  Marshall Hubbard, Richmond Division Manager, Spivey Pavement Markings, Inc.

VDOT has struggled in recent years with numerous issues related to pavement marking; late installation of temporary markings; late installation of permanent markings; scheduling and coordination issues; number of available pavement marking subcontractors to name just a few. In an effort to stimulate the pavement marking community, VDOT established a bonus provision in 2016 for early completion of pavement marking. This session will evaluate the success of the bonus program during the 2016 paving season and discuss the challenges going forward.

3:10 to 3:40 pm
**Break in Exhibit Hall**

3:40 to 4:20 pm
**Micro Session: Where Are We Headed With Pavement Recycling?**
- CCPR: I-64 Design Build Project – Brian Diefenderfer, Research Scientist, VTRC
- FDR: Fairfax VDOT Project – David Shiells, NOVA Materials Engineer, VDOT

Pavement Recycling is a technique where an existing degraded pavement is modified and transformed into a homogeneous structure that can support the traffic requirements. Materials from the existing pavement are reused in the construction of a new layer and can result in considerable savings of material, money, and energy. Because of the reuse of existing material, pavement geometrics and thickness can also be maintained during construction. In some cases, traffic disruption is less than that for other rehabilitation techniques. Pavement recycling is used for a number of applications, from heavy trafficked highways to low volume roads. Virginia gained national attention when a section of I-81 was successfully reconstructed using a combination of HMA, CCPR, CIR and FDR. This session will discuss the latest developments and expansions of these technologies.

4:20 to 4:50 pm
**2017 Specification Changes and Focus Areas**
- Rob Crandol, Assistant State Materials Engineer, VDOT
- Don Silies, Director of Contracts, VDOT
- 2016 Specification Book
- Schedule Specification Changes
- Schedule Completion Dates
- Design Build Rideability
- Pavement Interlayer
- Shoulder Maintenance Material
- Other

One of the highlights of the VAA Fall Asphalt Conference, each year, is the overview of specification and test method changes that have been adopted for the upcoming year. After many years VDOT has published the 2016 Book of Specifications and its use will be required in future contracts. There are also modifications to several other specifications, special provisions and copied notes that will be highlighted.

4:50 to 5:00 pm
**Closing Remarks**
Trenton M. Clark, Director of Engineering, VAA

5:00 to 6:00 pm
**Networking Reception in Expo Exhibit Hall**

8:00 to 10:00 pm
**Hospitality Suite Open – Presidential Suite**

**WEDNESDAY, OCTOBER 5**

7:30 to 8:00 am
**Continental Breakfast**
(Hallway of Madison/Jefferson/Monroe)

8:00 to 11:00 am
**All Members Meeting**
(Madison/Jefferson/Monroe)

This is a members’ only meeting but it is open to all categories of VAA membership. Open discussion will be had on a variety of VAA internal and external issues and programs.

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**THE NEXT ASPHALT CONFERENCE & EXPO IS OCTOBER 2 - 4, 2017**
For Your Information

Attendee List
An attendees list is posted on vaasphalt.org.

Parking
Valet parking is $28.43 daily for overnight guests and $27 for day guests. Self-parking is available at 5th and Marshall Streets for $17 a day.

Presentations
All presentations will be posted on vaasphalt.com and virginiadot.org

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Mark Your Calendars for These Upcoming Events

VDOT Asphalt Seminar
A Joint VAA/VDOT Seminar
Roanoke – February 23, 2017
Fredericksburg – February 28, 2017
Richmond – March 1, 2017

2017 Asphalt Conference & Expo
October 2 – 4, 2017

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Monday Lunch
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Monday Afternoon Break
Slurry Pavers, Inc.

Monday Reception Bar
Asphalt Emulsion Industries, Inc.
Bitumar USA
Kraton Corporation

Tuesday Morning Coffee
Martin Marietta

Tuesday Afternoon Break
James River Equipment

For Your Information