



THE READY-MIXER



Virginia Ready-Mixed Concrete Association Newsletter

November 2009

VRMCA Participates in "Architecture Exchange East"

by J. Keith Beazley
Director of Industry Services

Architecture Exchange East, sponsored by the Virginia AIA, was held in Richmond on November 4-6, 2009. ArchEx is an educational event and expo featuring over 60 educational sessions and workshops and more than 100 vendors. ArchEx brings architects, educators, materials suppliers, manufacturers, and other design professionals and support staff together to explore industry best practices and the emergence of new technologies, techniques and materials.

The VRMCA sponsored two educational seminars at the event, both well received and attended.

The first seminar, "Sustainable Concrete for Low Rise Projects," was presented by Donn C. Thompson, AIA, LEED AP. Don is Residential Technology Manager for the Portland Cement Association representing cement manufacturers nationwide. He provides technical support for homebuilding technologies, residential construction and oversees PCA research programs. The seminar presented an overview of the green building benefits of various cement-based low rise technologies, discussed within the context of various LEED systems for commercial construction.

The second seminar, "Concrete Solutions to Sustainable Schools," was presented by Vera Novak. Vera, former the Director of Marketing and Technical Services for the Insulating Concrete Form Association, is enrolled in a Doctorate Program at Virginia Tech in the Architectural, Engineering, and Building Management School. She was the first accredited professional in the ICF industry and is a well known speaker on sustainability and construction. Vera examined case studies of educational facilities which are bring in top Energy



Star scores and presented the nuts and bolts of building a better envelope using Insulating Concrete Forms. The new ICF School under construction in Charlottesville was shown and discussed.

The convention was attended by a large number of Principals of Architectural Firms. Topics of interest included Pervious Concrete, Insulated Concrete Forms for Commercial Buildings, and

Sustainability.

The VRMCA exhibit booth was on display with brochures and information on concrete products. Bob Nablo and Keith Beazley, of VRMCA, Allison Carrigan, of Lafarge Cement, and David McIlwain, of Creative Building Products, provided the information from the booth on the convention floor. ♦

CVCAC Hosts Green Building Seminar

by J. Keith Beazley
Director of Industry Services

The Central Virginia Concrete Advisory Council and the Virginia ACI Chapter sponsored the Fall 2009 Educational Series program "Green Building and Concrete's Role in Sustainability" at the Meadowbrook Country Club in Richmond. The program was well attended by architects, engineers, and industry members.

The program was presented by NRMCA National Resource Director Phil Kresge, who covered Concrete's

Role in Sustainability, the Environmental Benefits of Concrete, and Building Green with Concrete, as well as Green Building Applications for Parking Lots, Wall Systems, Green Roofs, Architectural Concrete and Pervious Concrete.

The Fall Series will focus on Green Schools for the 2010 Fall Seminar, primarily targeting School Architects.

The architectural and engineering community appreciates the opportunity to earn learning units without the expense of traveling. The Educational Series also builds relationships with the design and engineering firms. ♦

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Visit the Virginia Ready-Mixed Concrete Association Website at www.vrmca.com

STAMP IT AWAY: Architectural Concrete with Colors & Patterns!!!!



by Hessam Nabavi
Director of Industry Services

The Northern Virginia Concrete Advisory Council Residential Committee recently sponsored an Architectural Concrete with Colors and Patterns demonstration at Simoes Concrete in Manassas. Close to 40 architects, county officials and VDOT personnel attended.

David Snider with Virginia Concrete and 2009 NVCAC Residential Chairman and his team were instrumental in the success of the demonstration, which was designed to educate architects about the new color technology, placement and finishing process of stamped concrete.

Representatives from Titan Virginia Concrete, Virginia Concrete, Lafarge North America, Grace Products and VRMCA were in attendance to answer questions.

Fred Simoes and his crew did an amazing job on the placement and stamping of the concrete. Their attentions to detail was outstanding. The NVCAC organization is very thankful to Fred for his patronage, participation and assistance in promoting concrete. ❖



Blue Ridge Council Meeting Features Photo-Catalytic Cement

by Bob Nablo
Director Industry Services

Blue Ridge Council Chairman Buddy Murtaugh tries to include a brief presentation on a topic of interest as part of each Council meeting—this month Clay McCabe of Essroc Cement introduced members to Photo-Catalytic Cement, often thought of as “self-cleaning cement.” Rather than being a chemical reaction, McCabe described the product as cement acting as a catalyst for a reaction that, over time, expels pollutants from surfaces and causes them to fall to the ground. He also noted that only a thin topping layer of this product is necessary and that the effects do not “wear out,” lasting as long as the durability

continues. Research into paint-related and thin-coat applications is ongoing.

Dave Sowder noted that the product is being manufactured in Virginia, and that while the current market is in high visibility, architecturally significant buildings – frequently those also using white cement – the market will expand as costs decline and opportunities increase.

This topic drew an unusually high number of members to the meeting, with 20 in attendance. Tom Tilling also introduced Todd Shenk as the new General Manager of Crider & Shockey, filling the position of the late Tim Wells. The next general seminar offered by the Council will be the annual event co-sponsored by Virginia ACI in early 2010. ❖



Fort Lee Army Corps of Engineers Attend Lightweight Concrete Seminar

by J. Keith Beazley
Director of Industry Services

In the past year, Fort Lee has expended approximately 485 million dollars on construction projects, under the supervision of the Army of Corps of Engineers and the BRAC Area Office. With Quality Control and Quality Assurance a major concern, they have asked the VRMCA to present a series of seminars on concrete products, proper placement, and testing procedures.

The first seminar of the series, on Lightweight Concrete, was conducted on October 27, by Steve Kerr P.E., Solite, LLC, Chairman of the Technical and Education Committee for the Central Virginia Concrete Advisory Council. With the assistance of Chuck Starnes of F&R, representing the Virginia Chapter ACI, the two-hour presentation, custom-made for the Corps, to addressed lightweight aggregate and concrete, sampling and testing of lightweight and normal weight concrete, jobsite addition of water, acceptance of concrete, finishing of air entrained lightweight concrete, hot and cold weather concreting practices in accordance with ACI and specific issues of concern at Fort Lee.

A total of 39 people attended the seminar and feedback was very positive from Corps management. Future seminars will be presented on selected subjects in the next year.

A new 1,000-room hotel, which would be the largest in Virginia, is planned to start soon. Another major development will be for the construction of new support facilities on the post such as recreational facilities, Post Exchange, libraries, police and fire facilities and movie theaters. BRAC projects are expected to be substantially complete by the end of 2011 with the doubling of the size of the population of the post.

The Corps staff has been very appreciative of the efforts of the Central Virginia Concrete Council and the Virginia ACI for the guidance and support of their fast track construction. Quality has always been on the top of their list for requirements and seminars and programs by our industry are establishing relationships and bonds for future developments. ❖



Steve Kerr P.E., Solite, LLC, Chairman of the Technical and Education Committee for the Central VA Concrete Advisory Council.



Southwest Virginia Council Offers Sustainability Seminar

by Bob Nablo
Director of Industry Services

Each autumn the Southwest Virginia Concrete Advisory Council and Virginia ACI co-sponsors a major dinner-seminar on a topic of local interest. This year the Council was also able to include the Southwest Virginia Chapter of the U.S. Green Building Council as an additional co-sponsor on the topic of "Concrete's Role in Sustainability." Phil Kresge, of NRMCA, was the featured speaker, with comments by architect Steve Sunderman, the current USGBC-SWVA chairman.

In choosing Hotel Roanoke as the site for the event, Council members hoped to attract a larger percentage of architects and engineers to this year's event, and 63 individuals registered to attend. Roanoke Cement Co. generously helped host the reception, and the buffet meal of salmon and roast beef led the way to an informative presentation.

Kresge was asked to structure his presentation so that it was not "just another LEED seminar," and did a fine job in showing how ready-mixed concrete compared to other building and paving products in terms of environmental protection, durability, longevity and life-cycle cost. He also addressed the ways in which cement manufacturers have made major strides in their production methods. Kresge often reminded the audience that the sustainability mantra of "Reduce, Recycle, Reuse" can also mean "Environmental, Ergonomics, Economics," or "Planet, People, Profit," and concrete contributes substantially to each of these goals.

In difficult economic times it can be a challenge to attract a paying audience, and this event was considered to be reasonably successful by Council members. VRMCA members are reminded that all registered architects—not only AIA members—are now required to secure annual Learning Units, and that engineers are following this same path. Choosing an interesting topic, and making sure that the presentation is approved for continuing education credit, can lead to a worthwhile event for both the design community and the ready-mixed concrete industry. ❖



NRMCA Elevates Obla to Vice President

The National Ready Mixed Concrete Association is pleased to announce the naming of staff engineer Karthik Obla, Ph.D., P.E., FACI to vice president, technical services. He previously served as managing director, research and materials engineering.

Obla has more than 18 years of experience in concrete technology and has interests in quality control, mix optimization, specifications, use of recycled materials and durability. He oversees NRMCA's concrete laboratory and research program, having increased the laboratory's participation in funded research through federal and other funding agencies and contract testing for NRMCA members. He has made contributions in the Association's P2P initiative and focused on improving quality in ready mixed operations. He is a Fellow of the American Concrete Institute and a winner of ACI's Young Professional Achievement Award. Obla is an active member of various ACI, ASTM and TRB technical committees and serves as chairman for ASTM C09.49 – Pervious Concrete and ACI 232 – Fly Ash. He has published over 50 technical articles in journals and has presented in several international conferences.

"We are very happy to announce this news," said NRMCA President Robert Garbini. "Karthik's leadership role in raising the profile of our research



laboratory is a significant positive development for NRMCA. He has shown outstanding ability in this and his other responsibilities and we look forward to his continued contributions to the Association and ready mixed concrete industry as well."

Prior to joining NRMCA in 2003, Obla was technical manager at Boral Material Technologies for several years. He holds a Ph.D. in civil engineering from University of Michigan, Ann Arbor and is a licensed professional engineer in the states of Michigan and Maryland. He served as vice president and president for the ACI San Antonio Chapter. ❖

Meet Virginia's 20 Newest House of Delegates Members

Republicans had big wins in the House, gaining six net seats and boosting their majority to 61, including the two independents who caucus with the Republicans. They benefited from recruitment of strong candidates to take on incumbent Democrats, particularly in Northern Virginia as well as the large margin of victory by governor-elect Bob McDonnell and his running mates. The only incumbent Republican who lost was Delegate Philip Hamilton (R-Newport News), Chair of the House Health Welfare and Institutions Committee, who faced ethics charges.

Democrats also picked up the seat of retiring Delegate Jeff Frederick (R-Prince William County), who was removed earlier this year as Chairman of the Virginia Republican Party. Special elections will be held in the near future to fill the Senate seats of Ken Cuccinelli, who was elected Attorney General, and Ken Stolle, who stepped down to run for Sheriff of Virginia Beach.



Robin Abbott (D-93rd) is a partner at Consumer Litigation Associates. After working as a legal secretary for the FBI and Dept. of Justice, she attended college and law school while raising her children and working full time. Her son Nicholas was diagnosed with cerebral palsy in 1980, leading her to a successful career as a consumer advocate. Abbott is recognized nationally for her defense against predatory mortgage lenders and foreclosure abuses.

Richard Anderson (R-51st), who defeated incumbent Paul Nichols, served 30 years in the Air Force as a senior military advisor who commanded Titan II ICBM combat crews and served at both the U.S. Atlantic and Pacific Command Headquarters as well as the Pentagon. He is active in several military and civic organizations and seeks to keep taxes low, help small businesses and prioritize government spending on education, transportation and public safety.



Dickie Bell (R-20th) is a special education teacher and coach at Riverheads High School in Staunton. He served in the U.S. Navy during Vietnam and also on Staunton City Council. He wants to ensure workers in his area can find good jobs and keep more of their money instead of paying higher taxes.



Betsy B. Carr (D-69th) is Outreach Director at St. Paul's in Richmond. She founded the Micah Initiative, which provided 1000 volunteer tutors, and has held various civic and community outreach positions.

Bill Cleaveland (R-17th) worked for Corning Glass, then attended law school. He served as a prosecutor for the City of Roanoke Commonwealth Attorney's office before going into private practice focusing on defense, plaintiff's injury and civil litigation.



Barbara Comstock (R-34th) defeated incumbent Margi Vanderhye. She has served as a senior aide to Congressman Wolf, and also on the House Government Reform and Oversight Committee. She is presently at Corallo Comstock, a public relations/government affairs firm she co-founded.

John Cox (R-55th) is a successful entrepreneur who created two well respected companies in the difficult long haul trucking industry. He is also a Certified Transportation Broker and past president of the Virginia Trucking Association. He wants to see fiscal responsibility and budget restraint at all levels of government.



James Edmunds (R-60th) is a 3rd generation beef cattle, grain and tree farmer who has served on the Halifax County Board of Supervisors for 10 years. Edmunds has a degree in Business Administration and says his primary goals are to create new jobs in his area while preserving gun and hunting rights. He also strongly opposes uranium mining in his area.

Scott Garrett, MD (R-23rd), defeated incumbent Shannon Valentine and is a longtime Lynchburg-area surgeon. He was elected to City Council in 2006, where he has been a strong voice for fiscal responsibility and government accountability.



Thomas "Tag" Greason (R-32nd), who defeated incumbent David Poisson, graduated from West Point and earned an MBA from George Mason. He coaches his children's sporting teams and was recently appointed as a commissioner of the county's Economic Development Commission. As Executive VP for Current Analysis, Inc., Greason was instrumental in turning around the company, experiencing firsthand the positive effect of reducing taxes and government spending.

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New VA Delegates

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Patrick Hope (D-47th) is Director of Legislative Policy at the American College of Cardiology. He is active in organizations that include the National Alliance on Mental Illness and

ARC of Northern Virginia, and said he is committed to providing Northern Virginia with a permanent funding mechanism for transportation improvements.

Matthew James (D-80th) is President and CEO of the Peninsula Council for Workforce Development after holding several key positions in Portsmouth City government. Understanding the key role of transportation, he wants to address his regions needs in bridges, mass transit and high speed rail.



Mark Keam (D-35th) is an attorney who worked as an FCC prosecutor, with duties that included implementing portions of the Telecommunications Act of 1996. He then was assistant chief counsel in the Office of Advocacy within the Small Business Administration implementing the Access to Capitol Electronic Network.

Kaye Kory (D-38th) is vice-chair of Fairfax County's Public School Board and served two years as a volunteer working on housing and anti-poverty issues.



As program advisor to a Community Agency on Aging and Executive Director at the Saunders Moon Senior Citizens Center, she established a free transportation network for the elderly.



Jim LeMunyon (R-67th) is a technology entrepreneur who co-founded Sterling Semiconductor. He presently leads HexaTech, a company developing novel

sources of ultra-violet light for water purification and new components for wireless communication systems. While serving as Deputy Assistant Secretary of Commerce, he reduced the agency's budget while making the agency more effective.

James W. "Will" Morefield (R-3rd), who

defeated incumbent Dan Bowling, comes from a mining family. After graduating from Midwest University in Texas, he returned home to fight for victims of black lung disease. Morefield serves on a number of community boards, including The Tazewell Area Chamber of Commerce.



Chris Stolle, MD (R-83) trained as a nuclear engineer in the U.S. Navy and is a medical doctor who also earned an MBA from the College of William and Mary.

He currently is an administrative role at Riverside Regional Medical Center and is also a practicing physician.

Scott Surovell (D-44th) is an attorney

whose practice includes criminal defense, family law, personal injury, small business litigation and consumer matters. He is currently a law partner with State Senator Chap Peterson. In 2005, he was selected for the Fifth District Attorney Discipline Committee. His website addresses the need for transportation funding on Northern Virginia, adding that Fairfax County's annual road maintenance allocation from the Commonwealth dropped from \$28 million to \$240,000 in the past six years.



Luke Torian (D-52nd) serves as the Pastor of First Mount Zion Baptist Church in Dumfries and was one of only 50 leaders who participated in John Maxwell's special leadership institute.

He has served as a mentor for troubled teens. Torian helped found Virginians Organized for Interfaith Community Engagement (VOICE), an organization that works to gain access to affordable housing, strengthen education for people who want to learn English, and to provide affordable dental care.

Ron Villanueva (R-21st), who narrowly

defeated incumbent Bobby Mathieson by only a 16 vote margin (*pending recount*), is a Virginia Beach native who served as legislative aide for Frank Wagner during his time in the House of Delegates (Wagner is now a state senator). From 1997-2005 he owned and operated a marine ship repair and industrial service firm and he currently is co-principal for SEK Solutions, a provider of tactical and special operations. ❖



New Ready Mixed Concrete Statistics

The preliminary estimate of ready mixed concrete produced in September 2009 is 24.7 million cubic yards, 23% lower than in the same month in 2008. The estimated ready mixed concrete production through the 3rd quarter of 2009 is 200 million cubic yards, 27% lower than for the same period in 2008. The 2009 ready mixed concrete production projected based on the third quarter estimate is 265 million cubic yards, which will be 24% lower than 351 million cubic yards produced in 2008.

Ready mixed concrete production statistics are posted on NRMCA's Web site and can be accessed by NRMCA members. Individual state production totals through 3Q09 compared with comparable year-ago totals has also been added to the Web site. ❖

Holiday Workplace Celebrations

by Stephen Hartzell
Brooks, Pierce, McLendon,
Humphrey & Leonard, L.L.P.

With the holiday season upon us, your station may host a party or other social event for employees or clients. The decision whether to serve alcoholic beverages is an important one. Any event that involves serving alcoholic beverages poses special legal risks.

As you may know, the law in many states recognizes "social host" liability where "social hosts" may be held liable

for damages for serving alcoholic beverages to an underage guest or to a guest who becomes intoxicated and causes injury to another person by operating a vehicle in a negligent fashion.

If your station has a holiday celebration and you decide to serve alcoholic beverages, you will wish to check your insurance policy or talk with your insurance agent concerning "special occasion" coverage. ❖

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Virginia's Business One Stop Helps Thousands of Entrepreneurs

Virginia's Business One Stop, an online tool for entrepreneurs, has been utilized by more than 15,000 entrepreneurs to aid their business operations and create jobs. The Business One Stop is an on-going project through the Virginia Department of Business Assistance and began in May 2008 to consolidate business licensing, registration and permitting into one a single user-friendly online system.

"The thousands of entrepreneurs who have used our One Stop, including 8,587 new businesses, know first-hand why Virginia is the best state for business in the country," said Governor Timothy M. Kaine. "This online tool and the efforts of the Department of Business Assistance allows businesses to take care of business, rather than spend days visiting different offices to fill out paperwork."

"This program is an excellent example of smart government working with entrepreneurs and businesses to create new economic opportunities," said Joyce Waugh, President & CEO of the Roanoke Regional Chamber. "Small businesses represent 98% of all employers in Virginia."

Enhancements added by the new "Business Wizard" in December will make the One Stop even more interactive

and simplify the step-by-step process of launching a new business in Virginia.

"We have listened to the feedback from Business One Stop users and included new features that will increase the confidence of entrepreneurs that they have completed all start-up requirements," added Lynda Sharp Anderson, Director of the Virginia Department of Business Assistance.

During Governor Kaine's administration, Virginia has been recognized eight times as the best state by business by Forbes.com, CNBC, and Pollina Corporate Real Estate. Virginia was recently recognized as one of the top 5 states to start a business by US News and World Report in July 2009; the top-performing state government in America by Governing Magazine in 2008.

The Business One Stop is accessible on the web via the Commonwealth of Virginia home page, the Virginia Department of Business Assistance website, and the websites of numerous state agencies offering business resources or requiring business permitting. Development of the original Business One Stop and the Phase II enhancement were funded by a grant from the Productivity Investment Fund.

For more find out more information, visit www.dba.state.va.us. ❖

Stormwater Violations

The U.S. Environmental Protection Agency has cited 14 municipalities in Pennsylvania and Maryland for stormwater violations, nine of which are within the Chesapeake Bay watershed.

"EPA, in partnership with the states, is taking clear steps to protect the water quality of local streams and rivers," said Jon M. Capacasa, director of the Water Protection Division for EPA's mid-Atlantic region. "Because many of these municipalities are in the Chesapeake Bay watershed, this action, along with others will also help protect and restore the Bay."

Urbanized areas contain large portions of impervious surfaces such as roads, rooftops and parking lots that channel stormwater directly into local streams, rivers, and other water bodies. Improperly managed stormwater runoff from urbanized areas often contains high levels of nutrients, sediment, toxic metals, volatile organic compounds, and other pollutants.

EPA requires the cited municipalities to correct problems with their respective municipal separate storm sewer (MS4) programs and come into compliance with their state-issued discharge permits. MS4s are publicly owned drainage systems designed to collect and convey stormwater from urbanized areas.

In Pennsylvania, EPA issued orders to Birdsboro Borough and Ontelaunee Township in Berks County; Mechanicsburg Borough in Cumberland County; Atrim Township in Franklin County; East Donegal Township, Terre Hill Borough, Pequea Township, Akron Borough and East Earl Township in Lancaster County; Myerstown Borough in Lebanon County; and, Monaghan and Newberry Townships in York County.

In Maryland, EPA issued orders to Baltimore City and Anne Arundel County.

Several of these municipalities have already taken steps to comply with the orders. ❖

Chandler Concrete Achieves Two Safety Milestones

Chandler Concrete Company, Inc. recently achieved two safety milestones having worked one million consecutive hours without a lost time injury as well as completing a 12 month period with no lost time injury.

These milestones are the result of the combined safe performance of over 500 employees located in over 40 plant and office locations throughout central and western North Carolina, eastern Tennessee and south central and southwest Virginia including one in this local area.

These are truly outstanding accomplishments given the safety challenges faced by our employees as we produce and deliver ready mixed concrete and masonry products to job sites in metropolitan and rural locations every day.

Ted Chandler, Company President stated, "I am very proud of these accomplishments as they reflect the importance that our company and all of our employees put on working and driving safely while performing their jobs."

Chandler Concrete Company, Inc. is a family owned and operated ready

mixed concrete, masonry and hardscapes products producer based in Burlington, NC with production facilities located throughout central and western North Carolina, eastern Tennessee and south central and southwest Virginia. In addition, the company offers building supply materials through their outlets in Salisbury and Biscoe, North Carolina.

If you need additional information or have any questions, please contact Steve Jones, Director of Human Resources & Safety at 336-226-1181. ❖

EPA Launches Long-Term Permeable Parking Surface Study

The U.S. Environmental Protection Agency has announced a decade-long study to investigate the reduction of pollution that can run off paved surfaces and improve how water filters back into the ground. EPA is testing a variety of different permeable pavement materials and rain gardens in the parking lot at the agency's Edison, N.J. facility, which houses offices and its laboratory. Most major sources of pollution going into our waterways are well-controlled, but pollution runoff from hard surfaces remains a complicated problem.

"Runoff from parking lots and driveways is a significant source of water pollution in the United States and puts undo stress on our water infrastructure, especially in densely-populated urban areas," said EPA Acting Regional Administrator George Pavlou. "By evaluating different designs and materials, this study will help us develop strategies to lessen the environmental impacts of parking lots across the country and make our communities more sustainable."

This summer, EPA replaced a 43,000-square-foot section of the parking lot at its Edison facility with three different types of permeable pavement and planted several rain gardens with varying vegetation for the study. Over the next decade, EPA will evaluate the effectiveness of each pavement type and the rain gardens in removing pollutants from stormwater, and how they help water filter back into the ground. The



parking lot will be functional during the study to accurately evaluate how the different types of pavement handle traffic and vehicle-related pollution like leaking oil.

Stormwater runoff is generated when precipitation from rain and snow flows over land or impervious surfaces, like parking lots or rooftops, and does not readily flow back into the ground. As the runoff flows over the land or impervious surfaces, it accumulates debris, chemicals, sediment or other pollutants that could adversely affect water quality if the runoff discharged is not properly treated.

This study is part of an effort by EPA's National Risk Management Research Laboratory to evaluate permeable pavement as it relates to stormwater

management practices on a national scale. While the installation of permeable pavement systems has become more prevalent, there is a lack of full-scale, outdoor, real-world permeable pavement research projects.

EPA also recognizes the potential of rain gardens as a green infrastructure management tool to lessen the effects of peak flows on aquatic resources. While local governments and homeowners are building many of these systems, relatively few studies have quantified the ability of rain gardens to allow the ground to better absorb and filter stormwater, which reduces peak flows.

For more information on how EPA manages and regulates stormwater, visit www.cfpub.epa.gov. ❖



November Legal Brief (PENDING)

By John G. Kruchko
and Paul M. Lusky*



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(continued on next page)

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(continued from previous page)



WHEN SO MUCH IS RIDING ON
YOUR CHOICE OF CEMENT,
MAKE THE **RIGHT** CHOICE

THE **RIGHT** PRODUCT & SERVICE
IN THE **RIGHT** PLACE
AT THE **RIGHT** TIME

Roanoke Cement has supplied ready-mix producers and the construction industry with consistent, dependable, high quality cement for over 50 years.

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The Smart Road bridge, at 175 feet tall, is Virginia's tallest bridge. Approximately 9,647 cubic yards of high-strength concrete were used to construct the 2,000-foot long bridge.

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