Welcome to the 2012 Fall/Winter issue of Partners in Quality!

MdQI continues to enrich its transportation partnership, collaborating throughout 2012 with newly added MDOT modals, contractors, and consultants. Great strides have been made by the Steering Committee and the Subcommittees to incorporate the transportation industry focused mission into the 2013 MdQI conference. These innovations in quality transportation services and resources will be the focus of the working group sessions held during the conference. We are pleased to announce that the 20th Annual MdQI Conference will be held at a new and larger venue this year, The Baltimore Convention Center, on January 30-31, 2013. Mark your calendars for this exciting two day event!

The 2013 conference theme, entitled “Celebrating 20 Years of Quality Transportation” will include workshops and technical sessions focusing on topics affecting today’s transportation industry. State and Federal officials will also provide pertinent information on national issues impacting Maryland’s transportation community. The conference will kick-off with technical sessions and workshops on Day One, and close on Day Two with the banquet and Awards of Excellence presentation to recognize exemplary work within the industry. We look forward to seeing you at the 20th Annual Conference in January. Please check our website: www.mdqi.org for the latest information leading up to the conference, and don’t forget to save the dates – January 30th and 31st.

The past 20 years have brought many accomplishments, improvements, and exciting new technologies. These include:

- Implementing reduced retainage process and establishing an appeal process for consultant errors and omissions
- Implementing Contractor/Consultant Evaluation Forms
- Establishing teams to reduce change orders
- Improving project closeout and materials clearance
In recent years, we have brought forth project development issues for all modes of transportation, whether it be highway, transit, aviation, marine or pedestrians/bikes. We have reached out to the entire engineering and construction community with a continuous focus on improving the design practices of MBE Firms. Our subcommittee members are involved in organizing and participating in various initiatives, including the MDOT MBE Matchmaking Events.

Sustainability and Environmental Stewardship has also remained in the forefront. MdQI has continually educated the industry on revisions to the Standard Specifications for Construction and Materials and promoted “Green” Construction Practices. Subcommittees continue to work with the transportation industry, MDE and other regulatory agencies to make the permit process more efficient. We have worked to educate the transportation industry on Maryland’s draft Phase I Watershed Implementation Plan and EPA’s draft Chesapeake Bay Total Maximum Daily Load (TMDL) and its impact on the transportation system.

As you can see, the past 20 years have been very busy for expanding and improving Maryland’s transportation system. MdQI continues to provide a venue for collaboration among government and industry professionals. Many of these efforts will be linked to working group sessions and presentations during this year’s MdQI Conference. Attend the event and stay informed with the most up-to-date information impacting your business now and in the future.

In closing, Maryland continues to be challenged with tough economic conditions and MdQI has served as a forum to share innovative ideas to maximize our funding to ensure the highest quality transportation projects. We would like to extend our appreciation once again to all of the transportation stakeholders who continue to participate in MdQI and look for innovative solutions to the complex problems our state is facing. We look forward to seeing you and working closely with you next year as we celebrate 20 years of MdQI!
Celebrating 20 Years of Quality Transportation

20th Annual MdQI Conference

The 20th Annual Maryland Quality Initiative (MdQI) Conference will be held on January 30th and 31st, 2013 in the Baltimore Convention Center located at 1 West Pratt Street, Baltimore, Maryland 21201. The move to this new and larger venue was necessary to accommodate the growth of MdQI into Maryland’s largest, multi-modal transportation quality conference. This two-day conference will be attended by local, state, and federal agencies, as well as the consultant engineering community, highway contractors and suppliers who plan, design, construct and maintain Maryland’s transportation infrastructure.

Celebrating 20 Years of Quality Transportation

MdQI began in 1992 with the initial Charter signing of five sponsoring agencies, including the MD State Highway Administration, Federal Highway Administration, MD Highway Contractors Association, MD Asphalt Association and American Council of Engineering Companies/MD. Since 1994, MdQI has met annually to address quality issues, serve as a forum to exchange ideas, and make quality a way of doing business.

The 20th MdQI Conference will look at how far we’ve come, from a highway focused conference to a multi-modal conference supported by eleven sponsors. As we celebrate our past accomplishments, we will address present issues, as well as look forward toward our future. Continuous attention to quality improvements remains a top priority for the agencies, consultants, contractors and material suppliers that support Maryland’s transportation community. By evaluating the past, we can better plan for the future. Using what we have learned will help facilitate innovative solutions to complete today’s complex projects in a strained economy.

More than ever, collaboration is vital between contractors, suppliers, local/state/federal agencies, and the engineering community. Collaboration between all transportation stakeholders will facilitate communications and streamline processes that deliver superior products to our customers.

“The 20th MdQI Conference will look at how far we’ve come, from a highway focused conference to a multi-modal conference...”
Technical Sessions

Each year, the MdQI Steering Committee and its subcommittees analyze and research current topics of interest relative to the Maryland transportation community. After much vetting, selected topics become working group sessions during the conference. This year’s conference focuses on innovations by leading transportation professionals, and challenges attendees to partner on developing solutions. The conference will provide attendees with the most current information on new industry trends, including the latest technologies in construction, updated regulations, and safety. The 20th Annual MdQI Conference will feature topics that will be of interest to all transportation professionals including:

Planning/Design/Construction Projects:
- Panama Canal Expansion
- Purple Line/Red Line/CCT
- RSA, PMP and Standards Program Update at BWI Thurgood Marshall Airport
- BWI Thurgood Marshall Airport Terminal Improvement Program
- Kirk Bus Division Modernization Project
- Foundation and Substructure Rehabilitation at the Tydings & Hatem Memorial Bridges
- 20 Years of Dynamic Changes to Static Structures

Project Delivery:
- Construction Manager/General Contractor (CM/GC) an Alternative Project Delivery Method
- Close-out on Design Build Projects
- Close-out on Design Build Projects – Material Clearance Issues
- Public Private Partnerships (P3) in Maryland

Innovation and Technology:
- New Technology in Highway Design
- Moving Ahead with Greener, Cleaner, Safer Roadways
- Light Emitting Diode (LED) Technology/Signal Contractors – SHA Wants You!
- Diverging Diamond Interchanges (DDI): State of the Practice
- Connected Vehicle Initiative
- Everyday Counts II
- Non-recurring/Recurring Congestion: What to do with it/Traffic Management Strategies

Business and Communications:
- New Procurement Practices Update
- Communications Skills for Success
- Consensus Through Listening

Utilities:
- Pipeline Assessment Guidelines/ Buy America and Utility Relocation
Ethics Training

Ethics training will be provided by Michael W. Lord, Esq., Executive Director of the State Ethics Commission as an added benefit at this year’s conference. The Maryland Board of Professional Engineers require that Professional Engineers complete 24 Professional Development Hours (PDH) units on a biennial basis, including 1 PDH in content areas related to the standards of practice or care, laws and regulations applicable to the practice of engineering in Maryland, or professional engineering ethics. We are offering the ethics training on January 30, 2013 from 9:30 AM to 11:00 AM so that professional engineers attending the conference can satisfy their professional engineering ethics requirement.

Vendor’s Theme

The vendor theme this year will be “Back to the Future: Past, Present, and Future.” The vendor theme will coincide with the history, current status, and future of MdQI.

Each vendor is encouraged to creatively decorate their booth using the selected theme. Participating vendors in the past have provided an environment that has been both informative and fun for conference attendees during the two day event. During the conference, attendees will cast their ballots for the vendor booth that best captures the vendor theme. The vendor with the most votes will have their registration fees waived for the following year. We have also increased the vendor booths to approximately 83 from 62 last year to accommodate booth demand. Our new and expanded venue will provide the perfect opportunity to showcase our contractors, consultants and material supplier’s capabilities.

Annual Racing Competition

The competition continues to intensify this year for the annual Pinewood Race Car Derby. Be sure to check out the new rules for this year’s competition. The heat races will be held on Wednesday evening, January 30th during the reception from 4:00pm to 5:00pm in the Vendor Area. The final races will be held during the awards banquet Thursday evening. Please come see who will win the “Rose Cup”.

Conference Registration

Conference registration materials will be available soon. Please check the MdQI website at www.mdqi.org for more details.

Join transportation officials, contractors and MdQI members at the 20th Annual MdQI Conference – one of the nation’s largest transportation conferences. The conference features exciting and motivating speakers, technical sessions and exhibit areas. Meet other professionals in your specialty area and use this opportunity to network. Please make plans to attend the only conference created for you! This conference is all about you - your needs, challenges and solutions. We look forward to seeing you there!
**MdQI Conference Registration Information**

**2013 MdQI Conference ~ January 30 - 31, 2013**

The 2013 MdQI conference is scheduled for January 30th and 31st with the Annual MdQI Awards of Excellence presentation and banquet on the last day of the conference. Each year, breakout topics of interest to the Maryland transportation industry are identified by the MdQI Steering Committee and discussed at the conference. Each breakout topic is presented by a panel comprised of public/private professionals considered experts in the topic area. The presentations on breakout topics are followed by team discussions and brainstorming sessions. Conference attendees participate in the breakout topics of their choice. Vendor exhibits will be on display throughout the conference. More information, as well as conference registration, will be available on our website at www.mdqi.org.

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**NEW MdQI Conference Sponsorship Opportunities**

MdQI conference sponsorships are divided into the categories of Platinum, Gold, Silver and Bronze. The benefits and details specific to each are listed below. Please call Shelly Baquol at (410) 760-9505 for additional information.

**Platinum Sponsor (Limit 4) - $3,000**
Benefits include two (2) conference registrations at no charge, full page screen power ad, full page conference program ad, exhibit table, company name displayed on signage, organization logo with website link displayed on MdQI website for one year and conference attendee list.

**Gold Sponsor (Limit 8) - $2,000**
Benefits include one (1) conference registration at no charge, half page screen power ad, half page ad (horizontal) in conference program, exhibit table, company name displayed on signage, organization logo with website link displayed on MdQI website for one year and conference attendee list.

**Silver Sponsor - $1,200**
Benefits include one (1) conference registration at no charge, ¼ page screen power ad, ¼ page (vertical) conference program ad, exhibit table, company name displayed on signage and conference attendee list.

**Bronze Sponsor - $500**
Benefits include ¼ page screen power ad, ¼ page (vertical) conference program ad.

**Power Screen Ads** - Power screen ads will be displayed on 42” monitors in four (4) locations during the conference and will run continuously along with the conference program, convention maps and additional conference information.

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**Exhibit Opportunities for Non-Sponsors - $850**
Along with the exhibit space, each exhibitor will receive one complimentary conference registration and the company listing in the conference materials. Conference sponsors are automatically eligible for an exhibit space and need not apply separately.

**Full Conference Cost**
- $325 Early Bird (by January 4, 2013)
- $340 after January 4, 2013
- $240 Government Rate (by January 4, 2013)

**Awards Banquet Only (Day Two - January 31st)**
- $85 Early Bird (by January 4, 2013)
- $100 after January 4, 2013

**Registration Dates:** Registration available at www.mdqi.org from December 3, 2012 - January 27, 2013

**Hotel Accommodations** are available at the Hilton Baltimore Hotel, located at 401 West Pratt Street, for a discounted MdQI Conference rate of $119.00 per night plus 15.5% state and local taxes. For reservations call 443-573-8700 or 1-800-HILTONS. Room reservations at this discounted rate must be made by December 31, 2012.

**Contact Information:** Shelly Baquol at 410-760-9505 or shelly@mtbma.org

**Contact for SHA Employees:** Tanya McNeil at 410-545-0360 or tmcneil@sha.state.md.us

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**REGISTER ON-LINE AT www.mdqi.org**
## MdQI Conference Information

### 2013 MdQI Conference ~ January 30 - 31, 2013

### Day 1 Technical Sessions ~ Wednesday, January 30, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00am</td>
<td>Registration Begins</td>
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<tr>
<td>9:30am - 11:00am</td>
<td>Ethics Training: Room 337/338</td>
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<tr>
<td>11:30am</td>
<td>Welcome, Overview of Technical Sessions, Lunch (provided)</td>
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<tr>
<td></td>
<td>Presentation of FHWA Awards</td>
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<tr>
<td>1:30pm-2:30pm</td>
<td>Panama Canal</td>
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<td></td>
<td>Room 337/338</td>
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<td></td>
<td>Room 339/340</td>
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<td></td>
<td>Room 341/342</td>
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<td></td>
<td>Room 343</td>
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<tr>
<td>3:00pm-4:00pm</td>
<td>Foundation and Substructure Rehabilitation at the Millard E. Tydings and Thomas J. Hatem Memorial Bridge</td>
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<td></td>
<td>Room 337/338</td>
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<tr>
<td>4:00pm</td>
<td>Reception, Pinewood Derby Heat Races</td>
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### Day 2 Technical Sessions ~ Thursday, January 31, 2013

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Continental Breakfast and Registration</td>
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<tr>
<td>9:00am</td>
<td>Opening Session: Keynote Speaker: U.S. DOT Deputy Secretary John Porcari</td>
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<tr>
<td>11:00am - 12:00pm</td>
<td>New Procurement Practices Update</td>
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<td></td>
<td>Room 337/338</td>
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<td>Room 339/340</td>
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<td></td>
<td>Room 341/342</td>
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<td></td>
<td>Room 343</td>
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<tr>
<td>12 noon</td>
<td>Lunch, Keynote Speaker: Anirban Basu</td>
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<tr>
<td>2:30pm - 3:30pm</td>
<td>Public Private Partnerships (P3) in Maryland</td>
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<td>Room 337/338</td>
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<td>Room 341/342</td>
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<td>Room 343</td>
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<tr>
<td>4:00pm - 5:00pm</td>
<td>Pipeline Assessment Guidelines/Buy America and Utility Relocation</td>
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<td>Room 337/338</td>
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<td>Room 341/342</td>
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<td></td>
<td>Room 343</td>
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<tr>
<td>5:00pm</td>
<td>Reception and Race Finals</td>
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<td>6:00pm</td>
<td>MdQI Banquet &amp; Awards of Excellence, VIP Speaker: Lt Governor Brown</td>
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As ACEC/MD closes out the calendar year, there is a renewed focus on the upcoming Legislative Session. While the third year of an election cycle is not the most opportune time to pursue a transportation revenue increase, the realities of politics have made this course a necessity. Reacting to today’s environment, the ACEC/MD Legislative Committee is reviewing pursuing reasonable Public-Private Partnership (PPP) legislation that would provide an alternative to funding projects through traditional sources, such as a gas tax.

Kicking off the legislative season on November 29th, ACEC/MD member firm representatives heard from former Baltimore County Executive Jim Smith, who provided his unique insight into the 2013 General Assembly Session. On January 17, 2013, ACEC/MD will hold its annual Legislative Action Day, that will include targeted visitations with state elected officials followed by a Legislative Luncheon, traditionally attended by over 75 members of the Maryland General Assembly.

On the networking front, ACEC/MD will host its always popular Holiday Party at the Baltimore Museum of Industry (BMI) on December 6th. In the past, over 150 people have attended this festive event at the scenic BMI, which recognizes Baltimore’s heritage and important past contributions to the development of our nation.

On December 20th, ACEC/MD is pleased to offer nationally acclaimed speaker John Doehring, who will present Fast Future! Fifteen Uber-Trends that Will Rock Our World! A national conference speaker that has been published frequently in the ZweigLetter, CE News and SMPS Marketer, Mr. Doehring will discuss what professional firm leaders must do to survive and thrive on the road ahead.

Finally, as a charter member of the Maryland Qualifications-Based Selection (QBS) Council, ACEC/MD is actively involved in the search to fill the vacant QBS Council Executive Director position. The ideal candidate should have:

1. At least 20 years in the practice of engineering or architecture. Experience in both private and government AE services preferred.

2. Familiar with the ACEC and AIA positions on QBS for public and private agencies and organizations.

3. Excellent written and speaking skills.

4. Experience in organizing and hosting AE educational programs for a variety of audiences.

5. Familiar with the ACEC, NSPE, and AIA educational literature on QBS.

6. A strong commitment to the underlying QBS philosophy including work ethics, open communications, fair competition, and professionalism.

If you know of anyone that would be interested in this part-time position, please contact the ACEC/MD office.

For information or to sign up for any of ACEC/MD’s activities, call 410-539-1592 or go to www.acecmd.org.
MD Highway Construction and Engineering Career Day

The MD State Highway Administration (SHA) and the design, materials and construction industries have worked together to foster awareness of the many highway construction and engineering careers available to various Maryland County Public School students.

Over the past several years, events have been planned to allow high school juniors and seniors to see first hand what careers are available in the highway design and construction industry. Students visit a real production facility and meet with real engineers to discuss and interact with the materials and the equipment used in these industries.

Plans are currently underway for Anne Arundel County Public Schools to visit materials mining sites and a commercial development in Waugh Chapel. This event is scheduled for the Spring of 2013 and will be co-hosted by Reliable Contracting and Chaney Enterprises.

Mark Crampton, Assistant District Engineer, Project Development for SHA District 7, has taken the reigns from Barry Catterton who led the “Career Day” charge for many years. Mark is working closely with Tom Evans of the Maryland Ready Mix Concrete Association to pull resources together and coordinate efforts with the school system and the local industry players.

Also looking forward to planning another Highway Construction and Engineering event for 2013 is Baltimore County Public Schools. Partners on this event have initially targeted a tour of the Lafarge Texas Quarry along with a visit to the SHA District 4 office.

If you are involved in the Maryland highway industry and want to influence the work force of the future, then get involved with the Maryland Highway Construction and Engineering Career Day and make a difference.

Concrete 2013 Conference

Design and Construction of Concrete Highways and Bridges

On March 19, 2013 at the Crowne Plaza Baltimore North in Timonium, the concrete industry will work side by side with the MD State Highway Administration and the Federal Highway Administration to host the annual Concrete Conference. Expert speakers will discuss the latest concrete technology and present some of the most recent transportation projects involving concrete products.

The Concrete Conference (for the past 12 years) has been a one-day educational forum that provides information regarding applications for Portland Cement Concrete on all transportation projects. New in 2013, attendees will have the opportunity to meet VIP’s, exhibitors and speakers the evening before (March 18). They will also hear about special projects and case studies of recent projects in Maryland. All attendees may receive up to seven Professional Development Hours (7 PDH’s) at the 2013 Concrete Conference.

The conference provides information that will be useful to representatives from SHA, FHWA, MDOT, environmental design, highway and bridge design, materials and technology, landscape architecture, construction and inspection, maintenance, county and municipal highway departments, concrete suppliers, contractors, consultants, academia and other transportation building partners.

The conference is once again sponsored and planned by Maryland State Highway Administration, Federal Highway Administration, Maryland Ready Mix Concrete Association and the American Concrete Pavement Association.

For registration information, please visit www.MarylandConcrete.com or e-mail office@MarylandConcrete.com.
When the concrete industry approached the Maryland State Highway Administration (SHA) to consider working together to demonstrate how concrete overlays can bring a valuable tool to the maintenance programs across the districts, the doors were opened wide. Since May of 2010, teams of volunteers performed a simulated yet realistic concrete overlay project within the limits of an existing park and ride lot located off Benfield Blvd. and I-97 in District 4.

Since this demonstration project, SHA has been utilizing this tool in several districts across the state. The majority of SHA districts have projects currently in place or projects in design, waiting for funding that will be constructed in the near future.

Recently, in District 3, a Concrete Overlay Open House was held on August 28, 2012 to showcase the project at the intersection of MD 355 and MD 27. The Open House allowed other districts and counties to hear and learn about the project details and see the project in person. Attendees heard from Bob Long (ACPA) who discussed concrete overlays in general while Shekhar Murkute (SHA OMT, Pavement and Geotechnical Division) discussed project design and project specifications. Next, a Construction Summary was given by Rodney Meyers (BASF Admixtures) which included a panel discussion from the Contractor (Larry Smith with Concrete General Incorporated) and Concrete Supplier (Jack Hartman and Curtis Summers (Schuster Concrete)).

Following the seminars and enthusiastic discussions, the group was organized to meet on site to inspect the first phase of the project (MD 355 northbound). SHA District 3 did a great job of providing MOT for the event; keeping all attendees safe.

Below are details of the MD 355 / MD 27 Concrete Overlay project:

- Heavily traveled corridor in the Washington Metropolitan area servicing daily commuters, transit users, pedestrians, and cyclists
- An existing six-lane divided, urban highway with turn Lanes
- Total project length was approximately 0.60 miles
- Existing HMA pavement was constructed in 1995
- AADT: 38,100 with 5% trucks (2009)
- 2011 IRI: 151
- First project in District 3 for Concrete Overlay
- First project in MD with multiple legs of intersection (Total 3 legs included)
- Bonded Concrete Overlay on existing HMA Pavement after 6” milling
- 6” thick concrete with 6’ X 6’ joint spacing
- Work was completed over a series of weekends in less than 2 months
- Work done only during the weekends

Over 100 people attended the Open House on MD 355 / MD 27 and all agreed the project exceeded expectations and that a concrete overlay was a great application for this intersection.
The collaborative effort between SHA and the concrete pavement industry was critical to the success of this project. Geoff Hall (SHA Chief of Pavement and Geotech Division) noted, “The pavement at this urban MD 355/MD 27 intersection, originally built in 1995, got to the point where it was being repaired quite frequently. Rutting became a primary source of concern; during a site visit conducted by a partnership of MDSHA and the Federal Highway Administration (FHWA), the ruts were clearly noticeable.”

Mr. Hall further commented on the benefits of concrete overlays for this project and for future projects across the state, “In considering repair options we wanted a solution that would provide a greater design life, eliminate rutting and shoving at the intersection, reduce the number of future repair occurrences and increase the pavement strength. We determined that a concrete overlay was the best solution, as it is a great repair strategy to solve all of those issues. As pavement engineers, we believe that concrete overlays are viable, cost-effective solutions and are pleased that they are a part of the repair strategy toolbox. We look forward to using them in other similar circumstances.”

SHA Districts and other municipal maintenance departments are becoming more aware of how concrete overlays can be a valuable tool for them in their efforts to provide sustainable solutions for Maryland’s deteriorated roadways.

“The collaborative effort between SHA and the concrete pavement industry was critical to the success of this project.”

TheMdQISteeringCommitteeisjointlysponsoredbyrepresentativesofthefollowingagencies:

* SHA State Highway Administration
* ACPA American Concrete Pavement Association
* ACEC American Council of Engineering Companies Maryland
* MTBMA Maryland Transportation Builders and Materials Association
* MAA Maryland Association of Counties
* BWI Greater Baltimore Committee
* MTA Maryland Transportation Authority
* CEA Maryland

TheMdQIMission-“To provide the Maryland transportation industry a forum that fosters coordinated and continuous quality improvement in order to ensure safe, efficient, environmentally sensitive and sustainable systems to meet the needs of all transportation stakeholders.”

Don’t forget to visit our website at www.mdqi.org