

## 2007 MdQI Conference Awards (Continued from page 3)

**Other - Noise Wall**  
 US 29 from 1000' North of MD 175 to Diamond Back Road  
 Contractor: The Six M Co., Inc.  
 Project Bid Cost: \$1.4 million  
 Design Firm: Wilson T. Ballard Co.

**In-House Bridge Design**  
 Replacement of Bridge No. 1042 on MD 47 over North Branch  
 Contractor: Carl Belt, Inc.  
 Project Bid Cost: \$1.5 million  
 Design Firm: SHA

**In-House Landscape Architecture Design**  
 US 1 @ MD 193 Interchange  
 Contractor: F&F Landscaping, Inc.  
 Project Bid Cost: \$143,000  
 Design Firm: SHA

**Consultant Bridge Design**  
**Consultant Highway Design - Large Project**  
 Interchange Reconstruction on I-95/I-495/A-295  
 Contractor: G.A. & F.C. Wagman, Inc.  
 Project Bid Cost: \$42.4 million, \$45.3 million

**Design Firms:** Johnson, Mirmiran & Thompson, Inc.; Whitman, Requardt & Associates, Inc.; Rummel, Klepper & Kahl, LLP  
**Consultant Highway Design - Small Project**  
 MD 650 (New Hampshire Avenue) from Powder Mill Road to North of US 29  
 Contractor: Francis O. Day, Inc.  
 Project Bid Cost: \$9.6 million  
 Design Firm: Jacobs Civil, Inc.  
**Hot Mix Asphalt Production Facility**  
 Contractor: Maryland Paving, Inc.  
 Location: Texas Plant  
 QC Manager/Plant Manager: Michael Harris/Ted McGarity  
**Hot Mix Asphalt Production Facility**  
 Contractor: Keystone Lime Co., Inc.  
 Location: Springs Plant  
 QC Manager/Plant Operator: Dennis Critchfield/ Scott Boyce  
**Concrete Production Facility**  
 Contractor: Thoro-Goods Concrete  
 Location: Fruitland Plant  
 QC Manager: Danny Dukes

The MdQI Steering Committee is jointly sponsored by representatives of the following agencies



**The MdQI Mission** - "To provide the Maryland Highway Industry a forum that fosters Coordinated and Continuous Quality Improvement in order to ensure Safe, Efficient, and Environmentally Sensitive Highways which meet the needs of all Transportation Stakeholders"

Please visit our website at [www.mdqi.org](http://www.mdqi.org)

# PARTNERS IN QUALITY

A PUBLICATION OF THE MARYLAND QUALITY INITIATIVE STEERING COMMITTEE (MdQI)

## "Quality and Safety Through Innovation" 2007 MdQI Conference

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The 14th Annual 2007 Maryland Quality Initiative (MdQI) conference, "Quality and Safety Through Innovation", focused on transportation financing, accelerated construction, environmental stewardship and work force development. The conference, which is sponsored by the group of government agencies and private firms making up MdQI, was held at the Wyndham/Sheraton Inner Harbor Hotel in Downtown Baltimore. Doug Rose, State Highway Administration's Deputy Administrator/Chief Engineer for Operations & MdQI Co-Chair, hosted this two-day conference for public agency & private sector employees in the Maryland Highway Industry.

Subsequent to the opening luncheon, conference attendees visited the vendor exhibits and attended their choice of technical sessions. Mega projects, such as the Intercounty Connector (ICC), I-95 Section 100 and WWB were displayed. "Innovative Contracting & Streamlining of Construction" was an interactive and informative technical session which explained how over the past several years traffic congestion, work zone safety



concerns, project durations and project costs have increased, hence the industry has had to focus on night time construction, design-build and other strategies to meet demanding schedules. During this session, representatives from government, contracting & engineering firms had open discussions in the hopes of

receiving input from the industry on what has worked, what has not worked & what can be improved. In the professional development area, the session "Effective Communications on the Project" assisted the participants in thinking of items to consider when communicating effectively with all stakeholders, along with innovative approaches to communication.

Day Two began early with a continental breakfast, time for participants to peruse the vendor area, and an opening session with remarks by Mr. Neil Pederson, Mary Phillips (Associate Administrator, FHWA) & Ms. Trent Kittleman (Executive Secretary, MDTA).



One of the Day Two presentations "Attitude & Goal Setting for Effective Time Management" provided participants insights on how to be successful at managing time. This workshop focused on attitude & goal setting and the way to start a great day and a great life. On the technical side, the presentation on "Managed Lane Facilities" covered some of the possibilities for managed lanes in Maryland. Topics discussed included planning, public outreach, design issues and enforcement, to name a few.

Special thanks to the vendors who participated in the conference and made the theme successful. Congratulations to Century Engineering for winning the vendor theme contest. Century will enjoy a free exhibitor registration at the 2008 conference. Keep your eye on the web site to see the theme for 2008 as it unfolds so we can make next year just as memorable and fun. Also, thank you to the Conference Committee who did a wonderful job as always guiding everyone through the conference sessions, exhibits and events.

The conference kicked off with a welcome session led by Doug Rose and SHA Administrator Neil Pedersen. Doug and Neil reaffirmed the State's commitment to supporting the new administration's priorities. Neil charged the MdQI participants to strive for flexibility, cooperation & excellence in their work during this transition time. Neil closed with a quote from John F. Kennedy "Change is the law of life and those who look only to the past or present are certain to miss the future".



During lunch the participants listened to motivational speaker Mr. Ozzi Edmonston. His speech on quality and safety fit well with the overall theme of the conference.

2007 MdQI Conference - Continued on Page 5

## MdQI Chairman's Letter

Let me begin by extending my thanks to my Co-Chair, Mr. Dan Cheng, along with everyone that made the 2007 Annual Maryland Quality Initiative (MdQI) conference a memorable, fun filled & educational experience. Attendance at the conference held at the Wyndham/Sheraton hotel in downtown Baltimore was outstanding and had the highest number of attendees to date. The conference offered a wide variety of technical sessions along with numerous vendor exhibits colorfully decorated in a Caribbean theme. Over 600 people attended the full conference and approximately 750 people attended the annual banquet. My special thanks to the 49 vendors who participated in the conference and made the theme successful.



This conference was one of transition and also a kick off to the future as we look forward to working with the new administration led by Governor O'Malley. Coincidentally, January 17th was also the Governor's inauguration day. We are also very fortunate to have Secretary Porcari return after four years of absence; MdQI welcomes Secretary Porcari back and looks forward to working closely with him in the upcoming years.

Mr. Neil Pederson, Administrator, State Highway Administration (SHA), in his opening remarks informed the attendees that he is looking forward to working with Governor O'Malley, Lt. Governor Anthony Brown and Secretary Porcari in the upcoming years. He also identified safety as SHA's number one priority and the many challenges facing SHA looking ahead.

Some of the 2007 conference speakers included Ms. Trent Kittleman, Executive Secretary Maryland Transportation Authority (MDTA), Mr. Nelson Castellanos FHWA Division Administrator, Ms. Mary Phillips, FHWA Associate Administrator and more.

The year's theme "Quality & Safety through Innovation" included intriguing and informative topics which all attendees embarked on. The topics provided the most current information on the new industry trends including environmental compliance, incentives segmental construction, work zone best practices & construction materials & pricing. Attendees also got a first hand look at Maryland's mega projects: InterCounty Connector (ICC), I-95 Section 100 and the Woodrow Wilson Bridge with a combined estimated cost of \$45.7 Billion. Additionally, the attendees were privileged to an interactive special full session on "Finance for Transportation Projects". Moderated by former SHA Administrator Mr. Hal Kassoff, this session enlightened the participants on new and innovative techniques used to fund transportation projects. Copies of this year's conference presentations are now posted on the website ([www.MdQI.org](http://www.MdQI.org)) for easy access.

This year's conference concluded with a networking/cocktail reception followed by the annual banquet and the Maryland Quality Initiative Awards of special recognition and excellence. We were happy to recognize over 16 major & minor construction, design and partnering projects.

The 4th annual Highway Construction and Engineering Career day was held on March 29, 2007. Hosted by the MdQI Training & Recruitment Subcommittee, this was a terrific event. My special thanks to everyone that made this event a huge success.

Planning for the 2008 MdQI Conference has already begun. 2008 is a monumental year for SHA as it celebrates 100 years as a state agency. It also marks MdQI's 15th anniversary as a State Quality Partnership. Don't forget to mark your calendar for January 30 & 31, 2008 for this 15 year celebration.

In closing, I would like to extend my appreciation to all of the transportation stakeholders, particularly MdQI sponsors, who help make Maryland the leader in the nation in innovation and quality. 2007 will bring many challenges as we seek innovative solutions to funding the increasing traffic demands. And finally, special thanks to everyone for their dedication & hard work which made the 2007/14th annual MdQI Conference a huge success. I also look forward to working with everyone during calendar year 2007 as we embark on our journey of continuous quality improvement for all of Maryland's traveling customers.

**Doug Rose**

MdQI Chairman, SHA Deputy Administrator, Chief Engineer for Operations

## Industry News, Updates and Schedule of Upcoming Events

Need Information? go to [www.mdqi.org](http://www.mdqi.org)

Check out MdQI's website for more information on the 2007 conference, including conference presentations, and updates on other current news and events.

### Mark Your Calendars for the 2008 MdQI Conference

Next year's MdQI Conference is scheduled to take place on January 30th and 31st, with a theme of "Celebrating Maryland's Highway Centennial". Save the date and check the website for updates, registration information and schedule of events.

### ACEC Annual Conference

ACEC/MD will hold its Annual Conference in Atlantic City, New Jersey, June 26-28, 2007, and culminate its golden anniversary celebration at a gala black-tie event at the World Trade Center on November 30, 2007.

### The Future of the MdQI Newsletter

We are pleased to announce that the MdQI Newsletter is going electronic! This will be the final "hard copy" edition of the MdQI newsletter. Future editions will be electronic only and available on MdQI's website.

### ACEC Career Outreach Committee

Celebrating fifty years of service to the engineering profession and the public, the American Council of Engineering Companies/Maryland (ACEC/MD) has embarked upon an ambitious program to encourage students to enter the engineering profession. Under the leadership of ACEC/MD President Harvey Floyd and Career Outreach Committee Chair Ray Streib, ACEC/MD representatives have contacted every high school in the Baltimore area to encourage schools to provide the opportunity for ACEC/MD representatives to visit their school. ACEC/MD representatives will either make presentations or participate in career days to discuss the benefits of pursuing a career in engineering. For more information on ACEC news and events go to [www.acecmd.org](http://www.acecmd.org).

GET INVOLVED - Suggestions or ideas? Interested in joining an MdQI subcommittee? Contact SHA at 410-545-0361.

**2007 MdQI Conference - Con't. from Page 1** The afternoon of Day Two began with an interactive, highly informative full special session on "Finance for Transportation Projects". Former SHA Administrator, Mr. Hal Kassoff, moderated this session and began by introducing four panel members, each of whom enlightened the participants on innovative techniques they had applied to ensure funds for their transportation projects. The discussion was geared towards the Public Private Partnership and how it can make transportation solutions happen sooner rather than later.

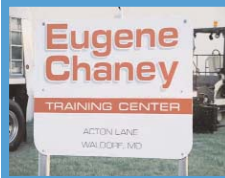
After the full special session participants dove into more technical sessions. Among the topics, the "Employee Retention & Recruitment - Get 'em & Keep 'em" session stood out. The concept of this discussion was geared towards steps the industry is taking to

promote engineering as a career to high school and even middle school students in the Maryland area. The concept goes far beyond just recruiting, since there is always the question of how to retain these excellent employees. Additionally, the "Enhancing Environmental Compliance at SHA Facilities" session was a huge success. This session enlightened the participants on the ongoing framework of SHA's compliance-focused Environmental Management System (EMS) developed to meet our environmental obligations at SHA facilities.

After the technical sessions the participants concluded Day Two by attending a fun filled cocktail reception followed by the annual banquet and presentations of the Awards of Excellence for highway projects completed in the calendar year 2006. (List of awards on page 3)

## MdQI's Fourth Annual Highway Construction & Engineering Career Day

MdQI's 4th Highway Construction & Engineering Career Day event was held on March 29th at Chaney Enterprise's Waldorf Plant & Training Center. Nearly 500 Charles County students, teachers, counselors, and other adult chaperones participated. The Training Center was bustling with interactive presentations on a number of civil engineering disciplines, as well as electrical and mechanical engineering. Hands-on construction activity stations and equipment were enjoyed by students outside the Training Center and indoor laboratory testing stations were brought in to provide hands-on learning opportunities as well. For the students interested in construction or heavy equipment maintenance, the day included a tour of the on-site concrete plant, block plant, and heavy equipment maintenance facility. Students interested in engineering toured Chaney's mining, reclamation, and environmental remediation areas. Engineering principals that were critical to this work were highlighted in the tour presentation.



All participants also had an opportunity to participate in the interactive Maglev model, which is part of the TRAC program. Career information was provided in each of the giveaway bags, and each participant received their very own hard hat to remember the day. The feedback from students and teachers was very positive. Charles County Schools and Chaney Enterprises are very anxious to repeat the event in the near future. Additional contractors and equipment manufacturers have now expressed interest in hosting the event at their facility. A de-briefing meeting will be held on May 18th to discuss the next event.

The MdQI Steering Team and Training & Recruitment Subcommittee would like to thank Chaney Enterprises for hosting this year's event, and for providing lunch for all attendees!

Also, a special thanks to the event sponsors:

**Gold Level Sponsors:** Aggregate Industries; Faccina Construction Co.; Johnson, Mirmiran & Thompson; LaFarge North America; Wallace, Montgomery & Associates; Whitman, Requaert & Assoc; and URS. **Silver Level:** American Civil Construction; P. Flanagan & Sons, Inc.; Indam Engineers; Straughan Environmental; Rummel, Klepper & Kahl; and Whitney, Bailey, Cox & Magnani. **Bronze Level:** Development Facilitators Inc.; EBA Engineering; Gannett Fleming Co.; Gray & Son Inc.; Heery International; KCI Technologies; Martin Marietta Materials; Maryland Paving; North Star Foundations; The RBA Group; Schnabel; STV, Inc; and Thomas Bennett Hunter.

The following companies provided equipment which allowed the students to have "real world" experience with the tools and technology used in our industry: Aggregate Industries; Anne Arundel County DPW; F.O. Day; Grace Construction Products; Hunt Valley Contractors; Lafarge North America; Reliable Contracting; and SHA. Leaders from the MD Asphalt Association, MD Highway Contractors Association, MD Aggregates Association, and MD Ready Mix Concrete Association also played key roles in carrying out the event and securing sponsors. Engineers from many of Maryland's engineering firms gave enthusiastic, hands-on presentations that engaged the students, and showed how vital the profession is for society.

We look forward to our next event (next school year), which will allow us to expose more of the future workforce to the great career opportunities available in our industry! Please visit [www.mdqi.org](http://www.mdqi.org) for the latest news on future events and your opportunities to participate.

## An MdQI Subcommittee Profile "Safety Subcommittee"

Our main goal on the highways is Safety. In an effort to increase safety awareness, MDQI has sponsored a safety subcommittee which provides a forum for SHA, MSP, highway contractors, industry, consultants and other partners to discuss and develop safety parameters specifically in work zones and on other aspects of highway operations. The wide array of partners on this team allow for lively discussions among those who have varying points of view in all aspects of highway projects. We welcome others to join this committee. Interested parties should contact Eric Tabacek at SHA's Office of Traffic and Safety at [etabacek@sha.state.md.us](mailto:etabacek@sha.state.md.us) for information.

One current topic of discussion and implementation is the Work Zone Safety Toolbox. The Work Zone Safety Toolbox was developed by Maryland State Highway Administration to provide a list of tools that can be used by designers and field personnel to improve safety in work zones. During the development of this Toolbox, SHA researched more than 20 strategies, some of which required field tests. Currently, there are 11 tools included in the Toolbox:

- Police Services in Work Zones
- PCMS with Speed Display
- Speed Display Trailers

- Temporary Transverse Rumble Strips in Work Zones
- Determination of Work Zone Speed Limits
- Drone Radar
- CB Wizard Alert System
- Traffic Lookouts
- Reduced Channelization Device Spacing
- Wider Lane Lines
- Intelligent Transportation Systems (ITS) in Work Zones

There is an introduction, objective, literature review, deployment guidelines, and case study section for different tools. In this article, we will briefly discuss one tool.

### PCMS with Speed Display

**Objective:** Provide drivers an awareness of their speed as they approach a work zone

### Deployment Guidelines:

- Place PCMS in advance of work zone location.
- PCMS's should be delineated/protected with traffic control devices.
- When multiple PCMS's are used, all signs should be placed on the same side of the road to avoid conflicting messages.

- If the sign is to be used for more than four (4) weeks, periodic police enforcement should be arranged.
- Due to large size of the signs, install only where shoulder space allows sufficient room for setup outside the traveled way.
- On high-speed facilities (over 50 MPH), the speeds of vehicles traveling 25 MPH over the speed limit should not be displayed.

Various strategies discussed in the Toolbox can be used independently or together to try to improve safety in work zones. For example, PCMS with speed display or Speed Trailers may be used for speed reduction/awareness, transverse rumble strips for alerting motorists of work area ahead, wider lane lines for discouraging lane-changing behavior and creating perception of narrow lanes to reduce speed, dynamic late lane merge system to improve safety and reduce queues, etc.

This toolbox is envisioned to be a continuously evolving document. It is available online at: <http://www.marylandroads.com/Safety/ot/s/trafficsignalsandlaws/WorkZoneSafetyToolbox.asp>.

## CONCRETE 2007 CONFERENCE AGAIN DRAWS NEARLY 300 PARTICIPANTS

The Concrete 2007 Conference, held in Towson, MD on March 14th, featured Doug Rose as the Key Note Speaker, who opened the 7th Annual Conference on Concrete Technologies for the highway and bridge enthusiasts in Maryland. Other speakers from FHWA and Maryland State Highway Administration included, Bill Wright, Dan Wood, Mary Huie, Ben Graybeal, Mark Swanlund, Charlie Adams and Rod Thornton. Additionally, Phil Kresge with the National Ready Mixed Concrete Association, Dave Luhr with the Portland Cement Association, Bob Long with the American Concrete Pavement Association

and Siva Kesavan with URS, all provided valuable information as part of this year's conference speakers. The conference planning committee is lead by Vicki Stewart and Tom Evans while supported by dedicated individuals from Maryland State Highway Administration and Federal Highway Administration, along with members of the Maryland Ready Mix Concrete Association and the American Concrete Pavement Association. For more information, or to get involved with planning the Concrete 2008 conference, contact Tom Evans at 301-694-4899 or Sam Miller at 301-471-4305.



## 2007 MdQI Conference - Awards of Excellence

The Maryland Quality Initiative program was originally developed to foster excellence in the quality of Maryland State Highway Administration (SHA) construction projects. The program has since built upon the theme and now also offers recognition of excellence for design, materials, production, Disadvantaged Business Enterprise (DBE) performance, subcontracting and the "Context Sensitive Solutions" approach.

In May 1990, the SHA, the Maryland Highway Contractors Association and the Maryland Asphalt Association announced the development of SHA's original Maryland with Pride program. The program's initiation on May 15, 1990, coincided with National Transportation Week. Purchasers of contract documents received a Maryland with Pride booklet which included program details.

On Maryland's continuous "Road to Quality", the program continued to evolve and grow through the joint sponsorship of its first conference in 1994. The American Council of Engineering Companies, the Federal Highway Administration and the American Concrete Pavement Association--Northeast Chapter in a cooperative effort joined the original group to promote quality workmanship. In 1998, Maryland decided to "personalize" its participation in the National Quality Initiative by adopting the title "Maryland Quality Initiative", better known as MdQI. In step with this change, the MdQI Steering Committee decided to change the name of the awards program from Maryland with Pride to MdQI Awards of Excellence. While the name of the program has changed, the goals of bringing superior construction projects, delivering superior products and services to customers have remained the same. In 1999, the Maryland Transportation Authority joined the team. Three new sponsors, County Engineers Association Of Maryland, Maryland Aggregate Association and Maryland Ready Mix Concrete Association, joined the group in 2001.

Many contractors, subcontractors, producers, suppliers, architects, designers and engineers have elected to participate in this program. Maryland's highway contractors, designers and their employees are now demonstrating pride in their accomplishments.

The 2006 Maryland Quality Initiative program, Awards of Excellence nominations were received and the projects and production facilities were judged. The project and production facility evaluation process was completed by panels of individuals representing the industry, FHWA and SHA. In judging, the panel considered such things as specification compliance, cooperation, contract administration, materials compliance, equipment, maintenance of traffic, erosion and sediment control, adherence to schedules, contract supervision and overall quality. After careful consideration, the panels selected the projects and production facilities for the 2006 Awards of Excellence.

**Major Roadway Project: Highway Design - Innovative Contracting**  
US 29 from North of Dustin Road to South of MD 198  
Contractor: Concrete General, Inc.  
Project Bid Cost: \$28.3 million  
Design Firms: Rummel, Klepper & Kahl, LLP; Johnson, Mirmiran & Thompson, Inc.; Whitney, Bailey, Cox and Magnani

**Minor Roadway Project: Partnering - Streetscape, In-House Highway Design - Small Project, Context Sensitive Solutions**  
MD 45 from Stevenson Lane to Northern Parkway  
Contractor: Machado Construction Co., Inc.  
Project Bid Cost: \$5.4 million  
Design Firm: SHA

**New Bridge Construction: Partnering - Interchange Reconstruction**  
US 29 @ East Randolph Road/Cherry Hill Road  
Contractor: Corman Construction, Inc.  
Project Bid Cost: \$17.5 million  
Design Firms: Jacobs Civil, Inc.; Rummel, Klepper & Kahl, LLP

**Bridge Rehabilitation**  
Bridge #21010 on US 40 over Licking Creek  
Contractor: A&M Concrete Corporation  
Project Bid Cost: \$1.6 million  
Design Firm: Jacobs Civil, Inc.

**Hot Mix Asphalt Resurfacing**  
MD 140 from I-795 to Carroll County Line  
Contractor: Gray & Son, Inc.

Project Bid Cost: \$1.7 million  
Design Firm: STV, Inc.

**Maintenance of Traffic**  
Cleaning & Painting Bridge #0205300 on Compromise Street/6th Street over Spa Creek  
Contractor: Titan Industrial Service

Project Bid Cost: \$1.0 million  
Design Firm: SHA

**General Environmental Project**  
Wetlands Replacement @ Little Seneca Creek on Old Baltimore Road  
Contractor: Highway & Safety Services, Inc.  
Project Bid Cost: \$659,000  
Design Firm: Rummel, Klepper & Kahl

**Partnering - Noise Wall**  
I-495 from Temple Hills Road to MD 5  
Contractor: Joseph B. Fay Co.  
Project Bid Cost: \$7.2 million  
Design Firms: Wallace Montgomery & Associates;

McCormick Taylor & Associates; Sabra, Wang Associates, Inc. - Joint Effort

**Disadvantaged Business Enterprise (DBE): Project Specific**  
MD 213 from Chester River Bridge to Greenwood Avenue  
Subcontractor: Janette Redrow, Ltd.  
Project Bid Cost: \$1.0 million  
Design Firm: SHA

**Other - Screen Wall**  
MD 28 EB @ Muddy Branch Road  
Contractor: Concrete General, Inc.  
Project Bid Cost: \$0.5 million  
Design Firm: Wilson T. Ballard Co.

**Other - Erosion & Sediment**  
MD 85 from South of Greenfield Road to MD 28  
Contractor: Mirabile Construction Co., Inc.  
Project Bid Cost: \$0.5 million  
Design Firm: McCormick Taylor & Associates

