

## Message from the President



As this newsletter reaches you, we will be rushing around trying to prepare for a visit from the ASCE National President Elect. It is a rare occasion that we have the opportunity to welcome the President of our national organization to Baltimore so if you have not already done so please make arrangements to attend our September meeting.

### Members Appreciation Night

Our Members Appreciation meeting in June was an extreme success with Civil Engineers from all different discipline attending. We had planners, designers and contractors, younger and older, private and public Civil engineers in attendance and enjoying each others company. Although I was not able to attend I understand that Frank Kaul did a wonderful job and the fire works went off to finish the evening. Thanks Frank for making the arrangements for the evening. After several successful years as Newsletter editor and Program Chairman Frank will be joining the Board as a Director this year.

### The Year in Review

The September meeting will also be used to swear in the new board and will be the official end of my term as president of the Maryland Section. The year has gone very quickly and there are a lot of accomplishments we should be

proud of.

- In November we hosted the National convention. Some of the local College students and members participated in a making it a wonderful event. As President Henry stated he has never seen Engineers having so much fun.
- We had informative and interesting programs with attendance averaging around 75 for our monthly meetings.
- Our Younger Members continued to be active with special events at the colleges, participation in the National Convention and working with ZOOM into Engineering.
- We were awarded two SPAG grants to get information about engineering into the hands of middle and high school students.
- We have formed a Government Relations Committee to start interacting with local and national elected officials and providing an "engineered" response to issues affecting us all.

The time I have spent on committees, the board and as President has been great, and I encourage all of you to become more involved. I would not have been able to develop the relationships nor acquired the knowledge about ASCE had I not been involved at this level, and I plan to continue my involvement in the future. I would like to thank all the board members (current, incoming and outgoing) as well as the committee chairs and all the volunteers. As Mandy is sworn in as President, I am confident that she will serve us all with distinction and carry on the strengths that make the Maryland Section so great. Please volunteer to step forward and assist Mandy with the need growth of civil engineering through ASCE. I would also like to thank all our employers, employees, spouses, families and significant others who allow us the time to address issues and attend our ASCE functions.

Art Barrett



A group photo of ASCE Maryland Section office bearers at Member Appreciation Night held on June 14, 2005.

Front row from left to right: Mark Richmond, Amanda Schindhelm, Joel Oppenheimer, Ed Meehan, Ray Streib, Michelle Streckfus, Keith Duerling  
Back row from left to right: Rizwan Siddiqi, John Malinowski, Frank Kaul, Joe Kittner, Tony Mawry

Happy children, parents and volunteers at "Build Roller Coasters at Port Discovery" event held on June 4th by ASCE Maryland Section.

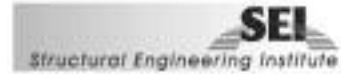
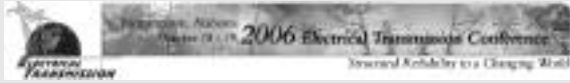


### Editor's Note:

Hi there! I hope you all had a great summer and continue to enjoy good health. I would like to mention to all reader members that from October 2005 I will be switching my hat from Newsletter Editor to Program Chair for ASCE-MD Section. I edited newsletter for about three years and hope you all enjoyed the contents. As usual your support and encouragement is appreciated. Please email your suggestions and ideas at rizwan@ebaengineering.com. Dave Borusiewicz of Wallace, Montgomery & Associates will be the Newsletter Editor from October issue and I wish him good luck.

Rizwan

# Section Announcements



All eyes will be on the Wynfrey Hotel in Birmingham, Alabama for the 2006 Electrical Transmission Conference - "Structural Reliability in a Changing World".

The 2006 Conference is an exciting forum for transmission and substation engineers to exchange technical knowledge, via workshops, paper presentations, exhibits and

tours. Some of the topics that will be covered include structural analysis, design, foundations, asset management and project case studies.

For additional information visit [www.asce.org/conferences/sei06](http://www.asce.org/conferences/sei06) or contact Debbie Smith at [dsmith@asce.org](mailto:dsmith@asce.org) or 703-295-6095.

## MD Section ASCE to Sponsor Fall CE-Civil Exam Prep

**Highway Design Short Course, 5 Stormwater Management Workshops Also Scheduled**

An innovative PE-Civil examination review course will be offered on five Fridays in Catonsville this Fall by the Maryland Section ASCE and the Maryland Society of Professional Engineers. Instead of the traditional 15-week evening course, the new program is designed to fit today's fast-paced lifestyle. It is also tailored to the new NSCE "depth and breadth" exam mode.

A two-day highway design short course and five stormwater management workshops are also scheduled by the two organizations.

### PE-Civil Exam Prep Classes

The review for the PE Principles and Practices classes were offered last Fall for the first time with outstanding success, with 70 percent of those taking the course passing the examination. Typically, only 20 percent of repeat takers and 50 percent of first time takers pass. The prep classes will begin on Sept. 16 at the Catonsville campus of the Community College of Baltimore County. Neil Goswami, PhD, PE, will conduct the classes. He is an assistant professor at Morgan State University.

The new PE-Civil exam is a "breadth-and-depth" test. Everyone sitting for the exam takes the same morning "breadth" test. The questions are evenly divided among five disciplines. Then, for the afternoon "depth" test, you choose one topic from among the five: *transportation, water resources, environmental, geotechnical or structural*.

Sixty-five percent of the afternoon questions

will be about the main topic that you select. The rest of the questions will be about two or three other topics.

The "modular" exam review comprises five, 8-hour Friday sessions, instead of the usual fifteen, 4-hour evening classes. And you may choose only the ones you feel you need most. Classes limited to 20 students.

### Highway Design Short Course

The two-day highway geometric design short course, aimed at design professionals with one to five years of experience as well as mid-level managers, will be held on Oct. 20 and 21, also at Catonsville. Manoj Jha, PhD, P.E., will teach this course, which will offer extensive coverage of the AASHTO Green Book. Dr. Jha, also an assistant professor at Morgan, is a director of ASCE-Maryland. This short course will also be sponsored by ACEC-Maryland.

### Stormwater Management Workshops

Five additional workshops dealing with various aspects of stormwater management are being offered to ASCE members at member rates by MDSPE this Fall, all under the direction of Michael L. Clar, P.E.

- **Stormwater Management in Maryland** – a 2-Day Review – Oct. 6
- **Design & Construction of Bioretention Systems** – Oct. 20
- **Advanced Concepts in Stormwater Management Technology** – Nov. 9
- **Low Impact Development: Stormwater Management Technology** – Nov. 17
- **Integration of BMPs into Biodesign** – Dec. 1

For more information on any of these programs or to register, go to <http://www.mdspe.org/continuingeducation>.

## SEI-MD News

Hello Maryland structural engineers! SEI-MD continues to grow and is excited for a productive and rewarding 2005-2006 ASCE year.

### Our mission:

The mission of SEI-MD is to serve the Maryland structural engineering community and encourage professional and community service. We organize technical presentations, field trips, continuing education courses, and networking events. SEI-MD is a local chapter of the ASCE Structural Engineering Institute and we operate under the ASCE Maryland Section.

**Please visit our website to learn more about our chapter activities:**

<http://sections.asce.org/maryland/SEIMD/seimd.htm>

### Currently on the SEI-MD website:

1. Vote in the SEI-MD 2005-2006 officer elections.
2. Read the SEI-MD newsletter, which summarizes our recent professional and community service activities.
3. Join our chapter! SEI-MD 2005-2006 membership is free!

## MD ASCE Government Relations Committee Resumes its Work

"The MD ASCE Government Relations Committee started with great flourish at its June kick-off meeting in Canton. In response to a mandate issued by ASCE National President Bill Henry, eight members from the Maryland Section have started to plan how best to represent civil engineering interests on the local and state government levels. While planning and logistics will be the committee's focus for the fall, the group is helping to coordinate a government relations speaker for one of the Maryland Section's monthly meetings. If you are interested in learning more about this innovative new committee please contact Jim Woodward at [Jim\\_Woodward@URScorp.com](mailto:Jim_Woodward@URScorp.com).

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# September MD Section ASCE Newsletter

## Younger Member News

by Jake Smith, Younger Member Section Newsletter Editor  
<http://www.asce.org/gsd/sections/mdasce/ym.htm>



### 2005-2006 Maryland Future City Competition

The National Engineers Week Future City Competition is a mentoring program sponsored by the engineering community to promote technological literacy and engineering to middle school students. This year's Maryland regional competition will be held on Saturday, January 28, 2005 at the Baltimore Museum of Industry.

National website: [www.futurecity.org](http://www.futurecity.org)

MD Regional website:

<http://sections.asce.org/maryland/FC/FC.html>

The competition needs your help in the following areas:

1. **Steering Committee Member** – give a few hours a month to help us coordinate school teams, engineer mentors, or to plan the day of

the competition. We have a great committee with lots of pizza at every monthly meeting. Please visit our MD Regional website to volunteer.

2. **Engineer Mentor** – spend a few hours a month from October to January helping a team of three middle school students with the design of their Future City. We work hard to match you with a school close to your work or home. It is a very rewarding experience! An engineer mentor fact sheet can be found at our MD Regional website.

3. **Spreading the word to schools** – if you are the parent of a middle school student, live near a middle school, or know a middle school teacher, please educate them about the compe-



dition and refer them to both the MD regional website and National website listed above.

Thanks for your help!

Cris Moen, P.E.

Regional Coordinator

Maryland Future City Competition

[moen@alumni.virginia.edu](mailto:moen@alumni.virginia.edu)

### ASCE Younger Member Profile



This September, we're happy to highlight Mike Randolph! Mike is an EIT certified highway engineer for STV Incorporated in Baltimore. As a member of the Maryland Section's ASCE Younger Member Group, Mike has participated on the ASCE indoor soccer team and regularly attends ASCE's monthly meetings.

This past spring, Mike lent a helping hand for the Charity Golf Tournament, designing a miniature golf hole sponsored by his firm. Born in Chesapeake Beach, Maryland, Mike now lives with his wife, Tanya, and dog, Charley, in Windsor Mill. In the future, Mike hopes to obtain his PE and become a project manager. We recently had a

chance to talk to Mike and here are some more interesting facts about him!

#### Where did you attend College?

I went to the University of Maryland – College Park. I graduated with a BS in Civil Engineering in May of 2002.

#### What activities were you involved with at UMD?

I was a math tutor and a Resident Assistant. I also drove a transit bus around the campus.

#### Were you active in ASCE at UMD?

Yes, I attended the monthly chapter meetings and organized study groups/"cram" sessions for CE tests. I also represented Maryland's student chapter at a regional conference in Connecticut.

#### Describe the type of work you do at STV?

I'm a highway engineer responsible for designing the geometrics of roadways and intersections, primarily doing work for the SHA and nearby counties. I also assist in the coordination of the other disciplines (structures, drainage, etc.) working on my projects.

#### What has been your favorite project?

Probably the Laplata Streetscape I worked on when I first started. After the tornado struck there a few years ago, a portion of downtown Laplata had been destroyed. STV was immediately called in to design some small intersection improvements as well as a streetscape/revitalization.

#### Outside of work, what type of hobbies do you enjoy?

I play softball and kickball in some social leagues in the city. I also am a leader for the youth group at my church.

#### What is your favorite vacation spot?

I like to go anywhere that takes me away from my everyday routine. So really no where in particular, I just like to visit new places.

#### What is your favorite thing about ASCE?

I enjoy meeting other engineers and working with students to support their pursuit of an engineering career.

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# Section Announcements

The Association of State Floodplain Managers (ASFPM) has selected Mike DePue, P.E., senior program manager with PBS&J, to chair its newly formed **Cost Savings and Leverage Subcommittee**. With anticipated participation from many leaders in the floodplain mapping community, this subcommittee will help identify and address key issues emerging from FEMA's Map Modernization Program.

DePue explains, "We have a tremendous opportunity to really leverage the data and the relationships that have been created through this program. Our goal is to find ways to make the best out of the available FEMA flood mapping budget with the highest quality product possible. We can do this by bringing the knowledge and experiences of the ASFPM mapping community to bear on these critical issues, and focusing the available resources where they make the most difference to the end users of the maps."

For more on this, please see <http://www.pbsj.com/Press/Releases/DePueRelease/index.asp>.

Scott K. Borges, P.E., Col. (Ret.), USAF, Joins PBS&J

Newport News, VA – Scott Borges, P.E., Col. (Ret.), USAF, has joined PBS&J's Civil Engineering Division as a senior project manager. Borges recently served as Deputy Director for Construction Programs in Baghdad, where he organized, coordinated, and launched the \$12.5 billion post-war Iraq reconstruction effort, the largest national rebuilding program since the Marshall Plan. This program is providing 2,300 individual projects including oil, water, hospital, highway, airport, military, police, and fire fighting projects.

In addition, he served as the Facilities Director at the United States Air Force Academy. While there he was responsible for the creation of the Academy's "Vision 2020," a \$200-million comprehensive 20-year facility, utility, and land use master plan encompassing the entire historic and

nationally significant installation.

Borges brings 28 years of increasingly responsible leadership of planning, design, programming, construction, operation, and maintenance of major installations around the world. Prior assignments have included the construction and operation of air bases in Saudi Arabia, roads in Micronesia, industrial facilities in Germany, and airport structures in Japan.

He has been recognized with the Bronze Star Medal, the Air Combat Command Newman Medal, and being named National Society of Professional Engineers "Federal Engineer of the Year" for the Air Force.

Borges holds a master's degree in Engineering Management from the Air Force Institute of Technology and a bachelor's degree in Civil Engineering from the University of Maryland.

He is located in PBS&J's Newport News, Virginia.

## President Signs Transportation Bill

President Bush last month signed SAFETEA-LU into law, legislation that will provide \$286.4 billion for highway and transit construction and maintenance over six years.

The president praised the bill as important to the economy for improving roads and providing jobs. However, as ASCE President Bill Henry stated shortly after the bill was passed by congress, "... this funding level fails to meet the long-term investment required to support a healthy economy and population, continuing the ineffective 'patch and pray' mentality. As

outlined in ASCE's 2005 Report Card for America's Infrastructure and reported in the Federal Highway Administration's 2002 Conditions and Performance Report, an investment of \$375 billion over the same period of time is required to address America's growing congestion and highway safety problems, and curb the increasing economic cost of a crumbling infrastructure."

The law comes nearly two years after the previous authorization, the Transportation Equity Act for the 21st Century (TEA-21), expired.

The ASCE Engineering News is a monthly publication, except July and August, published by the Maryland Section of the American Society of Civil Engineers and is provided free to Section, life and student members. Interest in writing an article, comments or questions should be directed to the Editor.

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# Participate in ASCE's Leadership Program that Transforms Engineering Managers into Effective Leaders



Have you been wondering how to better communicate with your staff? Do you want to more effectively motivate colleagues and build trust with co-workers? Do you want to foster a leadership culture that makes your firm or agency more agile and better able to respond to client/constituent needs? If so, attend ASCE's Leader Education and Development Program (LEAD) to confidently build your leadership skills in these areas and many more.

The LEAD Program is an eight-month program of seven formal training sessions and one individual coaching session. Sessions are highly interactive and include small group breakout discussion and monthly personal commitment and accountability.

The second offering of this course is taking place at ASCE Headquarters in Reston, Virginia, starting in November.

*"The greatest thing I found after joining this program was the interactive learning process in a very informal setting, customized to the needs of the audience... Besides learning how to manage and lead others, I really am discovering myself and trying to manage myself to become a GREAT LEADER. I think Olin and Laura form a great team of instructors! I can start feeling positive results in my life..."*

Rizwan Siddiqi, PE., Vice President, EBA Engineering, Inc., Baltimore, MD, 2005 LEAD Participant

## Course Outline

- Session 1 – Leadership Principles (November 10, 2005)
- Session 2 – Understanding Yourself & Others Better (December 8, 2005)
- Session 3 – Individual Personal Coaching/Mentoring (January 18-19, 2006)
- Session 4 – Communicating to Motivate (February 9, 2006)
- Session 5 – Leading Difficult People and Leading in Conflict Situations (March 9, 2006)
- Session 6 – Leading Change – and ensuring organizational agility in a changing marketplace (April 6, 2006)
- Session 7 – Enabling Others – improving your effectiveness in delegating, coaching, and mentoring (May 11, 2006)
- Session 8 – Inspiring Leadership in Others; Creating a Leadership Culture (June 7, 2006)

Developing leadership skills and a leadership culture will help your organization create the agility to respond more quickly to changes in the economy, competitors, and customer needs.

## Who Should Participate?

- Engineering managers who want to improve their leadership skills
- Managers identified by their organizations as rising leaders
- Managers who want to improve client/constituent relationships and organizational response to clients'/constituents' needs

- Managers tasked with leading change within engineering organizations
- Directors, senior associates, and others who manage groups of people in engineering organizations

Participant Limit: 20

Participation Fee: \$2,495 for ASCE members, and \$2,795 for non-members

Registration Deadline: October 26, 2005

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Questions? Contact Melissa Prelewicz at ASCE: 703-295-6341 or mprelewicz@asce.org

Visit [www.asce.org/lead](http://www.asce.org/lead) for more information.

*"In our work, like most other technical professions, I am faced with the problem of finding good people to make things happen. As a result of that issue, all of us have been forced to work with the personnel we have and develop them into a team we can win with. The LEAD program has helped me tremendously in understanding how to effectively communicate and more importantly, how to listen to staff from various backgrounds, skill levels, and capabilities. The end result for me, is that I am beginning to build more trust with my own staff, which allows them to follow me with a belief that we will win."*

Aaron Horton, P.E., Bridge & Street Maintenance Chief, District Department of Transportation, Washington, DC, 2005 LEAD Participant

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**DATED MATERIAL INSIDE**

## — MEETING NOTICE — AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: Wednesday, September 14, 2005  
Time: 6:00 PM – Cocktails  
7:00 PM – Dinner  
8:00 PM – Meeting

Place: The Engineers Club, 11 W. Mount Vernon Place  
Speaker: Mr. Dennis R. Martenson, P.E., DEE, F.ASCE  
ASCE National President-Elect

Program: National ASCE Issues & Officer Inductions

**Abstract:** Come join us for the new year of ASCE Meetings. We are pleased to have the ASCE National President-Elect, Mr. Dennis R. Martenson, P.E., DEE, F.ASCE speaking to our group. He will be discussing his expected role and goals for 2005-2006, as he becomes our National ASCE President. He will also provide an update to events and issues on the national level of ASCE, Policy 465 (aka the Body of Knowledge), CERF Re-engineering, governance, ASCE 2005 Report Card, TISP and Coalitions that ASCE is making. He also likes to receive feedback and will allow time for questions and answers from our group.

Dennis Martenson is a consulting environmental engineer and senior project manager with CDM in St. Paul, Minnesota, a world leader in environmental engineering. He has been very active in ASCE and other engineering associations over his 35 years in the profession. Dennis is a registered Professional Engineer in five states and has received numerous awards, including Diplomate, American Academy of Environmental Engineers, Radebaugh Award Recipient of the Central States Water Environment Association (CSWEA), Minnesota Young Civil Engineer of the Year, Minnesota Engineer of the Year, member of Chi Epsilon and elected a Fellow in ASCE. Dennis graduated from the University of Minnesota with a BCE in 1967 and with a MSCE in 1968. He has been married to his wife, Catherine, for 42 years and has two daughters and four grandchildren. For ASCE, Dennis is currently President-Elect and has been Zone III Vice-President, District 8 Director and been Chair or member on 17 national committees and six Minnesota Section Committees.

|                                      |         |
|--------------------------------------|---------|
| ASCE Members                         | \$27.00 |
| Guests                               | \$35.00 |
| Non-Members                          | \$35.00 |
| Non-Dues Paying Members (MD Section) | \$35.00 |
| Students                             | \$14.00 |

## RESERVATIONS

**Reservations can be made: on the web -**  
<http://www.md-asce.org>, click on "Meeting Dates" at the top of the page,  
**by phone - 410-527-4409 or e-mail - [asce@esb.org](mailto:asce@esb.org)**

- All reservations and cancellations should be **made by the Monday prior to the meeting.**
- Reservations will be considered firm and billed unless cancelled by not later than Monday noon prior to the meeting.
- Reservations can only be held until 6:45 PM.
- Seats will be available for dinner after 6:45 PM on a first-come, first-serve basis.
- If you are unable to attend dinner, you are welcome to attend the meeting at 8:00 PM
- Checks should be made payable to:

**Engineering Society of Baltimore, Inc.**  
**11 W. Mount Vernon Place, Baltimore, MD 21201-5190**  
**Attention: ASCE**

**DRESS CODE: Jacket Required, Tie Optional**

**Make your reservation by Monday, September 12th 12:00 noon.**

### FUTURE MEETING DATES:

**October 12, 2005**  
**November 9, 2005**