

## Message from the President



I am honored to serve as President of the Maryland Section ASCE this year. I would like to thank the Board and the Members for my nomination and election to this position and I look forward to a year full of exciting programs and events for our Section. I would like to thank Art Barrett, past President, and Dr. Manoj Jha and Keith Duerling who have served as Directors for the past two years. I would also like to thank all of the new and returning members of the Board, committees and volunteers who have contributed so much to the success of our Section. I look forward to working with you this year.

### Maryland Section Email List

In early September, the Maryland Section attempted to develop an email list server in an attempt to communicate time-critical issues such as emergency meeting cancellations due to inclement weather, information about upcoming activities, critical government relations/legislation and community service notifications. Unfortunately, an error occurred during setup of the list that, once it had occurred, was beyond our control. The Maryland Section immediately shut down the list server, but a chain-reaction of emails had already begun. The Maryland Section Board of Directors is not pleased that this occurred, and we hope it will not affect the support of our membership. On behalf of the Board of Directors, please accept our sincere apology for this inconvenience. We believe that, when set up properly, the email list will be an invaluable tool for communication for our Section and we ask for your patience as we develop this tool for our members.

### Helping the Victims of Hurricane Katrina

Although we are all feeling the impact of Hurricane Katrina through increased fuel prices, we cannot overlook the hardship that is being faced along the gulf coast. ASCE National has responded with information concerning the rebuilding efforts on their website and with a campaign for the American Red Cross. For details on how you can support the ASCE's efforts, please

visit <http://www.asce.org>.

### SEI-MD Gears up for a Second Year

The Structural Engineering Institute of Maryland (SEI-MD) is gearing up for a second year of programs for local structural engineers. The group hopes to build upon the exciting programs offered last year, such as presentations about the B&O Railroad Museum Rehabilitation and the FHWA Inspection of In-Service Bridges Course. If you would like information about the group including details on how to become a member, please visit their website at <http://Sections.asce.org/maryland/SEIMD/seimd.htm>.

### Congrats!

Congratulations are in order for our newest Fellow, William H. Johnson, P.E., FASCE as well as the Morgan State University's ASCE Student Chapter. Mr. Johnson attained the grade of Fellow in July, which represents a significant achievement that less than five percent of all ASCE members have attained. Also in July, the Committee on Student Activities approved a request to change Morgan State University's ASCE Student Club to a Chapter. This distinction allows their group to compete for awards such as the Ridgeway Award. Their Chapter was presented with a Student Chapter charter certificate at the September Maryland Section meeting. Please join me in congratulating Mr. Johnson and the students from Morgan at our next monthly meeting!

The Maryland Section hosted ASCE National President-Elect Dennis R. Martenson, P.E., D.E.E., FASCE at our September meeting. President-Elect Martenson challenged our members to author engineering journal articles and to collaborate between other engineering societies for political gain. He also discussed Global Principals of Engineering Conduct and his concern that Transparency International has ranked the United States 16th among bribers.

I would like to close my message with a note of special thanks to outgoing Maryland Section Newsletter Editor Rizwan Sidiqqi. A lot of work goes into preparing this publication each month, and its success for the past two years has been largely due to Rizwan's efforts. Rizwan will continue his service to the Maryland Section as the new Program Committee Chair. Dave Borusiewicz of Wallace, Montgomery and Associates will be serving as our new editor.

I look forward to meeting more of our members this year at our monthly meetings. Please join us for one of our programs and bring a friend. If you would like to become involved with one of our programs or if you have a suggestion for something new, please don't hesitate to contact one of the committee chairs or myself. My contact information is on the back of this newsletter. It is through participation that members get the most from ASCE/MD. Together we can make this a year of growth for our Section.

Mandy Schindhelm



ASCE National President-Elect, Dennis Martenson with George Winfield, Director of Public Works, City of Baltimore during his tour of Baltimore on September 14, 2005



MD Section ASCE President Mandy Schindhelm presents past President Art Barrett with an honorary plaque



2005-2006 MD Section Officers and Directors are sworn in. From Left to Right: Mandy Schindhelm, John Malinowski, Mark Richmond, Joe Kittner, Frank Kaul, Tony Mawry, Kelly Brennan and Art Barrett

## 2005-2006 Maryland Future City Competition - Volunteers Needed

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/FutureCities.htm>

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.
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 competition and refer them to both the MD regional website and National website listed above. The registration deadline is October 15, 2005!

Thanks for your help!

Cris Moen, P.E.  
Regional Coordinator  
Maryland Future City Competition  
[moen@alumni.virginia.edu](mailto:moen@alumni.virginia.edu)



## UNITED STATES GREEN BUILDING COUNCIL - BALTIMORE REGIONAL CHAPTER EVENT SPECIFYING FOR GREEN BUILDINGS

The written construction documents are the rule-book and guide for the project requirements. Commonly called "The Specs" they define the products, processes, and contractual obligations for the project. How do they need to be created, written, and executed differently for successful Green Projects?

This seminar will look at the specifics of writing "Specs" for Green Buildings.

- ▶ The topics will include: product selection, delivery and installation methods, general environmental requirements in Division 1 and the Conditions of the Contract, and the responsibilities of the participants – Architects and Engineers, Owner, Contractor, subcontractors, product manufacturers.
- ▶ Special considerations for specifying for Green Rating Systems, such as LEED™ and Green Globes.
- ▶ Incorporating environmental goals and requirements in all projects.
- ▶ Cost considerations.
- ▶ Guides and other resources currently available.

**OCTOBER 20, 2005**

An overview and discussion of the topics listed above.

**NOVEMBER 3, 2005**

An interactive workshop - The participants will put the principles learned in the October session into practice.

**Who Should Attend?**

Owners, Architects, Engineers, Contractors, Construction Managers, Product Representatives, and anyone who contributes services or products to building projects.

**Presenters:**

*Presented by two certified construction specifiers, certified construction contract administrators, and LEED accredited professionals, who have practiced and taught specification practice for many years.*  
Sandy McLelland-Hennessey, CSI, CCS, CCCA, LEED AP

Larry Hennessey, PE, CSI, CCS, CCCA, LEED AP

**Continuing Education Credits:**

Certificates of attendance will be provided for all attendees. AIA/CES self-reporting forms will be available for AIA members (2 HSW Learning Units for each session).

**Time (For Both Sessions):**

8:00 Networking Breakfast  
8:30 to 10:30 Seminar

**Location (For Both Sessions):**

Trane Sales Office  
9603 Deereco Road, Suite 400  
Timonium, MD 21093

**Cost (Per Sessions):**

\$20 USGBC Baltimore Regional Chapter Members, \$30 Non-Members

**To Register:**

Please contact **Kim Bates** at [tickets@usgbc-baltimore.org](mailto:tickets@usgbc-baltimore.org).

RSVP by October 14, 2005

*If you do not pay at the door after registering, we will bill you. There is limited seating for those who do not register in advance.*

## NOMINATIONS SOUGHT FOR 2006 OUTSTANDING PROJECTS AND LEADERS (OPAL) AWARDS AND 2006 OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT (OCEA)



The American Society of Civil Engineers is seeking nominations for its 2006 Outstanding Projects and Leaders (OPAL) Awards and 2006 Outstanding Civil Engineering Achievement (OCEA) Award. The OPAL Awards honor professional civil engineers for lifelong contributions in five categories—public works, construction, management, design and education. The OCEA Award recognizes projects on the basis of their contribution to the well-being of people and communities, resourcefulness in planning and design challenges, and innovations in materials and techniques. The awards will be presented at the seventh annual Outstanding Projects and Leaders (OPAL) Awards gala on April 26, 2006 at the Ronald Reagan Building and International Trade Center in Washington, D.C.

Established in 1999, OPAL Awards recognize and honor five outstanding civil engineering leaders whose lifetime accomplishments and achievements have made significant differences in: innovation and excellence in civil engineering design; construction of civil engineering projects and/or programs; demonstrated administrative skills leading to the completion of significant public works projects and/or programs; demonstrated excellence in furthering civil engineering education; and demonstrated exceptional management skills in his/her professional career. **OPAL Awards nomination entries must be received by 5:00 p.m. on November 15, 2005.**

Established in 1960, the OCEA Award honors the project that best illustrates superior civil engineering skills and represents a significant contribution to civil engineering progress and society. Honoring an overall project rather than an individual, the award recognizes the contributions of many engineers. Previous winners include the relocation of the Cape Hatteras Lighthouse, the Trans-Alaska Pipeline, John F. Kennedy International Airport and the World Trade Center Towers. Five finalists will be announced. **OCEA Awards nomination entries must be received by 5:00 p.m. on December 1, 2005.**

For more information about the awards, nomination criteria and procedures, and entry forms, please visit <http://www.asce.org/opal/index.cfm>.

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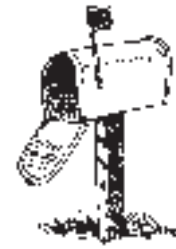
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# MD Section ASCE Newsletter Younger Member News

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



## ENGINEERING A CURE!!!

Come out and join our ASCE Younger Member group at the 2005 Leukemia and Lymphoma Society's Light the Night Walk. Light the Night is the Leukemia & Lymphoma Society's nationwide evening Walk to build awareness for blood cancers and raise funds for cures. This is the second year we've participated and we expect it to be lots of fun!



When: Friday, October 21, 2005 @ 5:30 pm

Where: Towson University

Team Name: "Engineering A Cure"

Team Captain: Cris Moen, P.E.  
moen@alumni.virginia.edu  
443-286-8534

Free Food by: Chick-Fil-A

Joining our team is easy! Just go to [www.lightthenight.org](http://www.lightthenight.org) and click on the REGISTER link. If you have questions, please contact Cris Moen.

All "Engineering A Cure" team members will receive a free frosty beverage at Bill Bateman's after the walk.

## ASCE Younger Member Profile



This month we're excited to have had the chance to meet Angel Lennon! Angel is an active member of the Maryland Section's ASCE Younger Member Committee and currently serves as a Student Chapter Liaison for her alma mater, Morgan State University. She attends the monthly section meetings as well as the Younger Member meetings and enjoys participating in the

annual ASCE Miniature Golf Tournament. Angel grew up in the Pikesville area of Baltimore and currently resides close to there in Windsor Mill, MD. An only child, Angel is part of a huge, but close knit family that is spread out all over the United States. Currently, Angel works as an EIT certified Transportation Engineer for Johnson, Mirmiran & Thompson (JMT). She plans to sit for the PE this coming April and is shooting to become a well-rounded, experienced design engineer, capable of displaying precise judgment and expertise in various areas of the field. In our recent meeting with Angel, we learned some of the

following interesting facts about her!

**What activities were you involved with at Morgan State?**

I was involved in a variety of activities. I was a Peer Educator for HIV/AIDS Awareness, a Student Mentor, a Student Government Association Member, a Tau Beta Pi Honor Fraternity Member, a Golden Key National Honor Society Member, and was elected Miss Morgan State in 2000. I also belonged to the Student Chapter of ASCE where I served as Vice President in 2000.

**Do you have a Masters Degree?**

I am currently pursuing an MBA degree at The University of Baltimore. My specialization is in Leadership and Organizational Learning. I attend classes on a part-time basis. I expect to fulfill all of my requirements and obtain my degree in December 2006.

**What has been your favorite project at JMT?**

My favorite would have to be the Rehoboth Avenue Streetscape Project. It was my first project after finishing my undergraduate degree in December 2001. I was able to participate in the various stages of the project as it transformed from design to finished product. While working on the project, I gained experience in transportation planning and design. We were able to transform Rehoboth Avenue into an inviting place; running the utilities underground, increasing

parking areas, and providing sidewalks large enough to handle the increasing crowds. Along with a few other improvements we were able to make this summer attraction more inviting to the public.

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

Traveling is my passion. I love to explore places that I've never been before. I like to engage in the different cultures that surround me when I am in these different places.

**What is your favorite vacation spot?**

My favorite vacation spot would have to be Trinidad and Tobago. I was fortunate enough to go during the time of Carnival and experienced many activities that are a part of Trinidad and Tobago's rich culture. The beautiful sand and water didn't hurt either!

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

My favorite thing about ASCE is the opportunity to network with others in the same discipline as myself. I love receiving advice from the older members, exchanging views with the members in my age bracket, and providing guidance to those members that are younger than me.

**Anything unique you'd like to share?**

Some may describe me as an "eager beaver" because I love to take on challenges and conquer them. When I finish accomplishing one goal, I'm on to the next with great eagerness. It seems that I can't sit still!



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# Section Announcements

## MARYLAND'S INFRASTRUCTURE REPORT CARD

### ROADS:



- 49% of Maryland's major urban roads are congested.
- 45% of Maryland's major roads are in poor or mediocre condition.
- Vehicle travel on Maryland's highways increased 35% from 1990 to 2003. Maryland's population grew 15% between 1990 and 2003.
- Driving on roads in need of repair costs Maryland motorists \$1.4 billion a year in extra vehicle repairs and operating costs --- \$402 per motorist.
- Congestion in the Baltimore metropolitan area costs commuters \$866 per person in excess fuel and lost time.
- Congestion in the Washington, DC metropolitan area costs commuters \$1,212 per person per year in excess fuel and lost time

### BRIDGES:



- 29% of Maryland's bridges are structurally deficient or functionally obsolete.

### DAMS:



- There are 12 state-determined deficient dams in Maryland.
- Maryland has 64 high hazard dams. A high hazard dam is defined as a dam whose failure would cause a loss of life and significant property damage.
- The rehabilitation cost for Maryland's most critical dams is estimated at \$64.6 million.

### DRINKING WATER:



- Maryland's drinking water infrastructure needs \$1.7 billion over the next 20 years.
- Maryland loses 66 million gallons of drinking water a day due to leaking pipes.

### WASTEWATER:



- Maryland has \$4.78 billion in wastewater infrastructure needs.

### SOLID WASTE:



- Maryland generates 1.63 tons of solid waste per capita.
- Maryland recycles 29.2% of the state's solid waste.

### SCHOOLS:



- 67% of Maryland's schools have at least one inadequate building feature.
- 65% of Maryland's schools have at least one unsatisfactory environmental feature.

## MEMBERSHIP BENEFITS

As an ASCE member you are eligible to obtain a free, ASCE email address. This feature allows you to establish an ASCE-related e-mail address while still receiving e-mail at another account. For example, messages sent to your ASCE email address, YOUR\_NAME@members.asce.org, will be automatically forwarded to your home, office, or any other email account you specify. This way, anytime you change your regular email address, your contacts do not need to update your address. To sign up for this feature, please visit [www.asce.org](http://www.asce.org), click on "Member Services" from the left, then click on "Email Forwarding". From there, simply login and follow the step-by-step instructions.

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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## ASCE Responds to the Hurricane Katrina Relief Effort

As a leader in the civil engineering community on disaster response and recovery, ASCE is responding to the devastation caused by Hurricane Katrina. On behalf of the more than 137,000 members worldwide, ASCE extends its condolences to the victims of the hurricane. We join with the nation in sorrow over the magnitude of the loss and suffering, and pledge our support to help restore the well-being of the affected states.

As the relief effort for this tragic event unfolds over the coming weeks and months, there will be many opportunities for ASCE and its members to assist. The Society is in regular consultation with governmental agencies and non-governmental organizations to coordinate its response with these groups.

### How You Can Help

Currently, the focus is on humanitarian aid and the greatest need is for financial contributions. ASCE has a long-standing partnership with the American Red Cross. You may make contributions to the hurricane victims directly through the Red Cross at <http://www.redcross.org/>

Volunteers should not report directly to the affected areas unless directed by a voluntary agency.

The American Red Cross has an ongoing need for engineers who are trained in disaster response and ready for deployment. To volunteer in that capacity, we urge you to contact

your local American Red Cross chapter at <http://www.redcross.org/donate/volunteer/>.

While the Federal Emergency Management Agency also has an ongoing need for engineers, only those who have pre-registered and trained with the agency will be included in the disaster response teams. If you would like more information on working with FEMA, please visit <http://www.fema.gov/>.



*A Texas Army National Guard Black Hawk helicopter deposits a 6,000 pound-plus bag of sand and gravel into flood waters as work progresses to close the breach in the 17th Street Canal.*

- ASCE is consulting with technical experts in the field on the deployment of technical assessment teams to the disaster area. ASCE is spending \$50,000 toward developing and administering Hurricane Katrina assessment teams.

- ASCE is establishing communications with its affiliated societies to determine the needs of the local professional community as they lead efforts to restore and rebuild the infrastructure. ASCE in conjunction with TISP coordinated a meeting with other non-governmental organizations on Sept. 6 in Washington, D.C. For information on the meeting, <http://www.tisp.org/events>.

- The federal government has asked trade associations involved in construction to help with immediate relief of the victims of Katrina. FEMA is asking for donations of money and items of immediate need, such as water, food, housing and machinery. To learn more, go to <http://www.swern.gov> and fill out information to either donate or sell supplies to the federal government.

- ASCE is serving as an information clearing house to find information for ASCE members on how to begin recovery; including a technical listserv, and information for ASCE members affected by the hurricane.

### ASCE Disaster Response Programs

In response to the devastation caused by Hurricane Katrina, ASCE has developed a response plan, which includes the following:

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## – MEETING NOTICE – AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: Wednesday, October 12, 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. Frank Birney  
Program: DOWNTOWN SILVER SPRING REDEVELOPMENT  
INNOVATIVE STORMWATER FILTERING SYSTEM

**Abstract:** The Downtown Silver Spring Redevelopment project is a multi-faceted, nearly \$1 billion dollar effort by public and private organizations to rejuvenate economic and residential aspects of a historic commercial center in the heart of Maryland's second largest city. As a Smart Growth Site, the Silver Spring Redevelopment project exemplifies the effort to develop long-term solutions to the complicated issues of economic growth, community revitalization and resources conservation.

Because the use of conventional BMPs such as detention ponds and infiltration basins was not a practical consideration in Downtown Silver Spring due to the space limitations, an underground and innovative stormwater filtering system, The StormFilter was incorporated by Loiederman Soltesz Associates as an optimal solution. The orientation of this system requires smaller horizontal space occupancy than conventional BMP systems. The low visual profile of this underground system is an added benefit in keeping with preserving the streetscape.

Frank Birney is Regional Sales Manager for Stormwater360 for the past 6 years. Stormwater360 is a privately held company that supplies a range of products to treat stormwater runoff. He is a business development manager with over 13 years of experience in marketing and selling environmental products to the commercial and industrial industry. Knowledgeable of the 2000 MDE Manual specifically related to WQv and structural practices on New and Redevelopment projects.

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, October 10th 12:00 noon.**

### FUTURE MEETING DATES:

**November 9, 2005**  
**December 14, 2005**