

Message from the President



The "Zoom into Engineering" event at Port Discovery was a success in raising the kids' awareness of engineering. One of the ASCE goals is to bring an understanding of what an engineering career is to students, and all the kids who entered Port Discovery on February 26th had the opportunity to visit the four stations and learn about engineering: they built newspaper towers, flew straws, checked the strength of shapes with straws, and "flinked" a piece of Styrofoam - making it neutrally buoyant by counter-weighting a Styrofoam peanut with paper clips. I would like to thank Michelle Streckfus, the Younger Member Chair who coordinated the event with National ASCE and the following individuals who volunteered to help including three students from Morgan, Suzanne Grey (Club Pres.), Sherrie Brooks, and Kimberly Freeman, young and general members Jim Woodward, Ray Moravec, Anyesha Mookherjee Todd Eckhart, Rosanna LaPlante, Shirin Saedi, Christina Guzman, Kelly Brennan, as well as three volunteers who are not ASCE members Julie Fisher, Ivy Liu, and Whitney Morlock.

Another successful event was the Scholarship Putt-Putt on March 5. A special thanks to the

Organizers; Ray Streib, Ed Meehan and Carl Scheffel; all those who helped set up and take down - especially the University of Maryland Students; and all who participated in a fun event. The cheers that resonated through the hotel confirmed that the 180 paid golfers had a wonderful time on some very challenging firm sponsored and designed holes. The funds derived from the event will ensure another year of scholarships and place the ASCE Scholarship Fund closer to the \$150,000 needed to establish a perpetual fund at each of the three schools offering local accredited Civil Engineering degrees.

On March 9th ASCE issued the 2005 Report Card for America's Infrastructure. A brief description of the 15 categories and ratings can be found in the newsletter and details can be found on the ASCE web page at www.asce.org/reportcard. The good news was that the report card was released when ASCE was holding the Legislative Fly-In and the five Maryland Section participants were able to use the report card with our legislators to stress that \$1.6 Trillion dollars is needed over the next 5 years to get our infrastructure to passing conditions. The bad news is that the money is not there. The grades dropped from a D to a D- since the 2000 Report Card. To stop this downward trend and make our systems dependable and safe we need to activate our membership. To find out more about how we can affect legislation and get assistance contacting your legislators on issues important to engineering you can access the ASCE Internet Advocacy Website <http://www.asce.org/advocacy.html>. The Maryland Section is planning to initiate a Legislative Committee which will act on local and national issues. If you are interested in participating in the legislative committee, please contact me at wbarrett@gfnet.com.

This month's speaker is being presented as part of the Carroll Lecture Series. Always impressive, the Carroll Lecture Series brings nationally renowned speakers to Baltimore for an informative evening, so don't miss our next meeting!

Please remember that our meetings are held the second Wednesday of every month September through May. Always remember the entire newsletter can be found on our web page <http://sections.asce.org/Maryland>. If anyone would like to comment on ways to improve the Maryland Section of ASCE, please let me know. My email address is wbarrett@gfnet.com.

-Art Barrett

2005 Report Card for America's Infrastructure

Congested highways, overflowing sewers and corroding bridges are constant reminders of the looming crisis that jeopardizes our nation's prosperity and our quality of life. With new grades for the first time since 2001, our nation's infrastructure has shown little to no improvement since receiving a collective D+ in 2001, with some areas sliding toward failing grades. The American Society of Civil Engineers' 2005 Report Card for America's Infrastructure assessed the same 12 infrastructure categories as in 2001, and added three new categories. Access the complete Report Card with details on each infrastructure category and state infrastructure information by visiting <http://www.asce.org/reportcard/2005/index.cfm>.

Subject	2001 Grade	2005 Grade
Aviation	D	D+
Bridges	C	C
Dams	D	D
Drinking Water	D	D-
Energy (National Power Grid)	D+	D
Hazardous Waste	D+	D
Navigable Waterways	D+	D-
Public Parks & Recreation	--	C-
Rail	--	C-
Roads	D+	D
Schools	D-	D
Security	--	I
Solid Waste	C+	C+
Transit	C-	D+
Wastewater	D	D-

America's Infrastructure G.P.A. = D
Total Investment Needs = \$1.6 Trillion
(estimated 5-year need—does not include security investment needs)

Grade Definitions	
A = Exceptional	Each category was evaluated on the basis of condition and performance, capacity vs. need, and funding vs. need.
B = Good	
C = Mediocre	
D = Poor	
F = Failing	
I = Incomplete	

IT'S TIME TO VOTE.

Please use ballot included in this issue to vote for Section Officers of the Maryland Section ASCE.

Section Announcements

Don't Miss the ASCE's OPAL Awards Gala



In its sixth year, the Outstanding Projects and Leaders (OPAL) Awards are becoming the preeminent awards program for civil engineers, and ASCE's principal mechanism for bringing worldwide attention to the contributions and accomplishments of the civil engineering community.

The awards recognize exemplary civil engineering projects that best illustrate superior civil engineering skills and represent a significant contribution to the progress of the profession. In addition, five individuals are honored for lifetime achievement in construction, design, education, management and public works. The gala will be held at the Sheraton Premiere at Tysons Corner in Vienna, Va. on April 13, 2005 at 6:30 pm. For more details please visit <http://www.asce.org/opal>

GTA & MRA Establish Educational Memorial Fund For Children of Todd M. Stephens

The owners and employees of Geo-Technology Associates Inc. (GTA) and Morris & Ritchie Associates, Inc. (MRA) were deeply saddened by the sudden passing of Todd M. Stephens, P.E., on Sunday, February 27, 2005, at the age of 37. Todd served as Vice President and Sr. Geotechnical Engineer for GTA and was responsible for managing a diverse mix of commercial, industrial, and residential projects throughout the region.

His credentials included a Master of Science in civil engineering from University of Maryland and a Bachelor of Science in civil engineering from Valparaiso University, in Indiana. Todd was registered as a Professional Engineer in Maryland, Delaware, Pennsylvania, New Jersey, and New York. He started his career in 1990 with GTA, and during his tenure he worked for the firm's Towson, Laurel, and Abingdon offices. He was promoted to Associate in 1996 and became a stockholder in January 2000.

Todd leaves behind his wife, Katie, and three children, Samuel James, Benjamin Roland, and Abigail Jane. He was a most devoted husband and father. An educational memorial fund to benefit his children has been established by the owners of GTA and MRA. To make a donation in Todd's memory, please send a check payable to: Stephens Family Education Fund, c/o Geo-Technology Associates, Inc., 3445-A Box Hill Corporate Center Drive, Abingdon, Maryland 21009, Attn: Dave Quaranta - 410-515-9446.



PBS&J Receives Award of Excellence

Beltsville, MD — The Baltimore/Washington Corridor Chamber of Commerce (BWCC) and the Baltimore/Washington Corridor Chamber Foundation presented PBS&J the Award of Excellence in recognition of outstanding achievement at their 48th annual gala on February 26, 2005.

The Award of Excellence was presented to PBS&J for its substantial contributions to education and numerous initiatives that have enhanced learning throughout the state of Maryland and the Baltimore/Washington Corridor. Senior Vice President Donald R. Vogt, P.E., DEE, accepted the award on behalf of PBS&J.

PBS&J has supported the BWCC Foundation's Annual Mathematics Symposium for the past four years. The symposium assists teachers by showing their students connections between real-world and textbook mathematics.

Welcome New Members

- Addisalem Abebe
- Nicholas Barrick
- Robert Bartholomew
- Eric Basu
- David Blersch
- Edrick Brown
- Christopher Brown
- Nitin Chavan
- Xin Chen
- Gary Cutler
- Kathryn Francis
- Abhishek Jain
- Blair Johnson
- Tom Labuda
- Jill Lehman
- Matthew Mccarty
- Sakti Pal
- Alexis Rosker
- Jeffrey Strulic
- S Syed
- Angel Tao
- Robert Weeks
- Michael Werner
- Alfred Young



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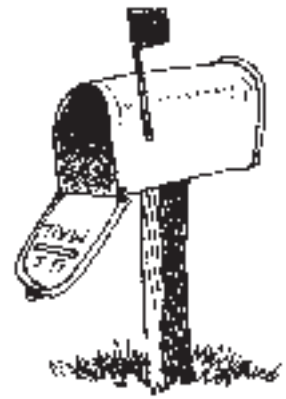
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March MD Section ASCE Newsletter Younger Member News

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



REBUILDING TOGETHER DAY, BALTIMORE

Saturday, April 30th

Rebuilding Together Baltimore (formerly known as "Christmas in April") is working to make the Reservoir Hill section of Baltimore a better place to live. ASCE worked with RBT last fall as part of the National Convention. They were so happy with our volunteer help they have asked us to be a part of their annual volunteer day. This year, we will be participating in the community beautification program. All ASCE members and families (including children

14 and older) are welcome to attend! For more details or to volunteer, email Kelly Brennan at (keb132@yahoo.com).

UNIVERSITY CONCRETE CANOE RACES AND STEEL BRIDGE COMPETITION

Saturday, April 23rd and Sunday, April 24th

Volunteer judges are needed! For more details, email or call Mandy (mandy@members.asce.org or 410-316-7955).



ASCE Younger Member Profile

This month, we're happy to highlight Jim Woodward! Jim works as an EIT certified graduate bridge engineer for URS Corporation

in Hunt Valley, MD, and is an active member of the Maryland Section's ASCE Younger Member Group. This past January, he was one of four members to represent the Maryland Section at the 2005 NERYMC Conference in Hershey, PA. Jim is originally from Alexandria, VA, but now resides in Cockeysville, MD. One of three siblings, Jim has an older sister, Emily, and a younger brother, Patrick. Jim is currently on track to pursue his PE and is considering a return to graduate school in either engineering or business. We recently caught up with Jim and found out some more interesting facts about him!

Where did you attend College?
The University of Virginia.

What activities were you involved with at UVA?
I was a member of Tau Beta Pi and Chi Epsilon. I was also a Rodman Engineering Scholar and a teaching assistant for Technology, Culture, and Communication, a required undergraduate engineering course that asks students to examine the ethical and societal impacts of engineering.

Describe the type of work you do at URS?
I'm involved with the structural design, rehabilitation, and inspection of various highway and railroad bridges in Maryland and Delaware.

What has been your favorite project?
The Wilmington and Western Railroad Rehabilitation would be my favorite so far. Flooding from Hurricane Floyd in 1999 destroyed this scenic railway in northern Delaware. I collaborated on the foundation and pier design for one of the six trestle bridges scheduled to be rebuilt.

What do you enjoy doing outside of work?
I enjoy skiing and learning Spanish.

Do you have a favorite vacation spot?
Western Europe, namely Spain and France. I traveled there after graduation last June and LOVED it.

Do you hold a position in ASCE?
Nothing official. However, I was the "alcohol chair" for the MD Section YM Holiday Party held in Canton last December.

How else are you involved with ASCE?
I am becoming particularly active in the MD Chapter's professional development, government affairs, and community outreach activities. A few weekends ago I volunteered to help out at Zoom into Engineering held at Port Discovery. For two days, I also accompanied other MD Section members at ASCE's Leadership Training in Government Relations. At the training, ASCE unveiled its 2005 Report Card on the nation's infrastructure.

What is your favorite thing about ASCE?
ASCE gives me the opportunity to interact with other civil engineers who are passionate about their careers. Also, my involvement with the MD Section, particularly the Younger Members, has given me the opportunity to network and make friends with other career-minded individuals.

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URS RECEIVES WTS AWARDS

On December 15, 2004, employees from URS' Hunt Valley office attended a Holiday and Awards luncheon to accept two awards from the Baltimore Chapter of Women's Transportation Seminar (WTS). The Hunt Valley office was named Firm of the Year for 2004. Preston Davis, Norine Walker, Janie Tiedeman and Alan Straus accepted the award on behalf of the office.

In addition to the Firm of the Year Award, Janie Tiedeman was recognized as Member of the Year. Janie is a Project Manager in the Environmental and Transportation Planning Group and has been an active WTS member for several years. Last year, she served as Secretary and has been re-elected to this position for 2005.

Other employees representing URS at the luncheon were Jada Baillargeon, Mike Dougherty, Gail Gawthrop, Valorie Hennigan, Stephanie Huck, Melonee Leonard, Jean Li, Dee Magnusson, Dave Moriconi, Jennifer Murno and Rachel Steffens.

WTS was founded in 1977 through the efforts of 40 women working in the transportation field in the Washington, D.C., area. These women recognized that an organization was needed to enhance professional and personal advancement and to develop industry and government recognition of the increasing involvement of women in the field of transportation. After nearly 25 years of growth and development, WTS is now a national organization of more than 3,400 transportation professionals — both women and men.



Norine Walker (left) presenting the Member of the Year Award to Janie Tiedeman



WTS President Cyndi Alder (left) presenting the Employer of the Year Award to Preston Davis, Janie Tiedeman, Alan Straus, Norine Walker

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.

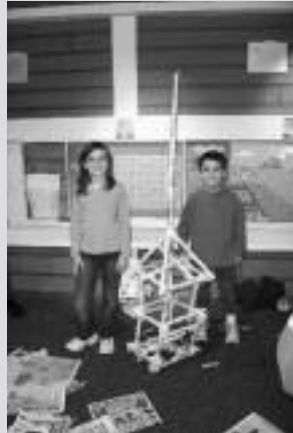
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ZOOM INTO ENGINEERING PHOTO GALLERY

The "Zoom into Engineering" event was held at Port Discovery in Baltimore on February 26, 2005. Thanks to Michelle Streckfus, Kelly Brennan and volunteers Suzanne Grey, Sherrie Brooks, Kimberly Freeman, Jim Woodward, Ray Moravec, Anyesha Mookherjee, Julie Fisher, Ivy Liu, Whitney Morlock and all others those helped in making this event a great success!



Christina Guzman poses with her proud Engineers and their tower.



Olivia and Michael started a trend when their tower reached 63" tall!



The biggest tower of the day came in at the end of the day at 112" tall. Future Engineer, I think so!



Rosanna La Plante works to help the children build something that doesn't float or sink, it flinks!



MD Section ASCE President, Art Barrett helps his children build their tower.

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— MEETING NOTICE — AMERICAN SOCIETY OF CIVIL ENGINEERS

- Date: Wednesday, April 13, 2005
- Time: 6:00 PM – Cocktails
7:00 PM – Dinner
8:00 PM – Meeting
- Place: The Engineers Club, 11 W. Mount Vernon Place
- Speaker: Dr. Zdenek Bazant, Ph.D., Northwestern University
- Program: Richard J. Carroll Memorial Lectureship
"Size Effect and Need for Reform of Reliability Concepts for Quasibrittle Structures"

Abstract: The load factors and understrength (or capacity reduction) factors are currently considered to be independent of structure size and geometry, and separate from structural analysis. It is argued that this is incorrect for quasibrittle failures, characterized by post-peak softening (typical of concrete as well as rocks, fiber composites, tough ceramics, sea ice, wood, cohesive soils, etc.). To find out why this occurs, attend the seminar by Dr. Zdenek Bazant at the Engineering Society of Baltimore on April 13th.

Zdenek Bazant received his Ph.D. in Engineering Mechanics in 1963 from the Czechoslovak Academy of Sciences, Prague. Since 1973, he has been a Professor of Civil Engineering and Materials Science at Northwestern University. Dr. Bazant's research areas include structural engineering, concrete, geomaterials, fracture, stability, creep damage in elastic behavior. He has authored over 430 journal articles and six books. Dr. Bazant is a registered Structural Engineer in Illinois. His honors and awards are numerous and include induction as a Member of the National Academy of Engineering, Washington, D.C. (1996) and five honorary doctorates from Universities in Colorado, Prague, Karlsruhe, Milan and Lyon.

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

- 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:

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Attention: ASCE

DRESS CODE: Jacket Required, Tie Optional

Make your reservation by Monday, April 11th 12:00 noon.

FUTURE MEETING DATES:

May 11, 2005
June 8, 2005

Instructions: Please vote for the Section Officers. Mark your ballot by placing an "X" in the box for each officer. Unmarked ballots and ballots not returned by Wednesday May 4, 2005 will not be counted. If you wish to volunteer for a committee assignment, please indicate by marking appropriate box on the ballot. Please stamp and mail on the address printed on the other side of the ballot.

Maryland Section, ASCE

Official Ballot

The following persons have been nominated to serve in the respective offices shown for the 2005-2006 year, and have officially accepted the nomination.

President (One Year Term):

Amanda Schindhelm, PE

Vice-President (One Year Term):

John Malinowski, PE

Secretary (Two Year Term):

Tony Mawry, PE

Treasurer (Two Year Term):

Mark Richmond, PE

Director (Two Year Term):

Frank Kaul, PE

The following persons are current members of the board, serving a two year term.

Director
(Two Year Term)
Art Barrett, PE

Director
(Two Year Term)
Joe Kittner, PE

Director
(Two Year Term)
Kelly Brennan, PE

Maryland Section ASCE Nominated Officers for 2005 - 2006



Amanda D. Schindhelm, PE *Nominated for President*

Amanda is a structural engineer with KCI Technologies, Inc. She has played an active role in ASCE-Maryland Section for several years, serving as current vice president and in the past as a secretary, director and co-chair of the Younger Member Group. She also co-chaired the 2004 International High School Wood Bridge Competition and worked as co-chair of the Maryland High School Wood Bridge Competition. In the community, Amanda is a firefighter and emergency medical technician for the Jacksonville Volunteer Fire Company, Phoenix, MD. Amanda graduated with a Bachelor of Science degree in civil engineering from the University of Maryland in 1997 and a master's degree in business administration from Loyola College in December 2003.



John Malinowski, PE *Nominated for Vice President*

John is project manager with Wilbur Smith Associates and has a background in planning and design of highway, transportation, and civil facilities. He graduated in 1979 with a Bachelor of Engineering degree in Civil Engineering from Manhattan College, Riverdale, NY. John has been a Member of ASCE since moving to Baltimore in 1986 and has been the Membership Chairman since 1997. He was recognized as the "1999 OUTSTANDING SECTION MEMBERSHIP CHAIR" for his dedication and commitment to ASCE's 1999 Membership Drive, he is current secretary and has served as a Director of the ASCE Maryland Section for 2001-2003 and was on the sponsorship committee for the 2002 ASCE 150th Anniversary Conference in Washington, DC, as well as for the ASCE 2004 conference in Baltimore.



Antonio Mawry, PE *Nominated for Secretary*

Antonio is a Partner with Wallace, Montgomery & Associates, LLP. and is responsible for management of the firm's Highway Department. Tony has been very active in local organizations, serving the ASCE Maryland Section as Hospitality Committee Member, as Newsletter Editor and as Treasurer. He has also served as a Past President of the ASHE Chesapeake Section. He holds a Bachelor of Science Degree in Civil Engineering from the University of Maryland and a Masters Degree in Business Administration from Loyola College in Baltimore.



Mark Richmond *Nominated for Treasurer*

Mark served as the Maryland Section Hospitality Chair for several years before being elected in 2003 to serve as the current Section Treasurer. He has been nominated to serve as a treasurer for another term of two years. He is currently a Project Manager for the Howard County Stormwater Management Division and has lived and worked in the Baltimore area for more than 20 years. Mark earned a BS in Civil Engineering from Lafayette College and an MS in Environmental Systems Engineering from Clemson University.



Frank Kaul, PE *Nominated for Director*

Frank is Vice President of Bridge Engineering Division of Whitney, Bailey, Cox & Magnani, LLC. He received his BS in Civil Engineering from the University of Maryland, College Park. Graduating with honors, he also served as an Officer of the Chi Epsilon Honor Society and the American Society of Civil Engineers. He served ASCE Maryland Section as a newsletter editor and as a chair for the programs committee. He is also actively involved in the American Society of Highway Engineers and the Maryland Association of Engineers.

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Time
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PLACE
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John Malinowski
Wilbur Smith Associates
810 Gleneagles Court
Suite 306
Baltimore, MD 21286

I am willing to participate in the following local section activities:

- | | |
|---|---|
| Geotechnical Group <input type="checkbox"/> | Student Chapter Contact Member <input type="checkbox"/> |
| Publicity Committee <input type="checkbox"/> | Program Committee <input type="checkbox"/> |
| Hospitality Committee <input type="checkbox"/> | Stormwater Mgt. Committee <input type="checkbox"/> |
| Awards Committee <input type="checkbox"/> | Associate Member Committee <input type="checkbox"/> |
| History & Heritage Committee <input type="checkbox"/> | Education Committee <input type="checkbox"/> |
| Professional Objective Committee <input type="checkbox"/> | |
| Membership Committee <input type="checkbox"/> | Other _____ |

Name _____

Telephone _____