

Message from the President



The April meeting featured the Richard J. Carroll Memorial lecture presented by the Johns Hopkins University. The Maryland Section is in deed fortunate to participate in this annual lecture series presented by structural engineers. It is also a treat to have so many students from JHU in attendance as well as the many of the civil engineering faculty at this annual event.

Ed Meehan made a presentation to the Board in April about the ASCE Maryland Section Scholarship Fund. This year the Putt-Putt raise a record \$12,000, that along with the Voluntary Dues which are all placed into the ASCE Scholarship Fund, we will be providing \$2,500 scholarships to Johns Hopkins University, Morgan State University and University of Maryland College Park.

This year there has been a tremendous volunteer effort by the students at all three schools. JHU is hosting the collegian Steel bridge and Concrete canoe competitions, MSU was represented at several ASCE Nation Convention functions and the ASCE - Zoom into Engineering at Port Discovery and UMCP provide help with the Putt Putt. The effort that these students have provided is rewarding to see and exciting when you consider that they are the future leaders of our profession. In the past the Board has voted to contribute \$500 to each of the student clubs and we hope to expand our support for the student participation in ASCE functions.

Last month I spoke about the ASCE Report

Card for America's Infrastructure. Our Younger Members have taken up the legislative challenge and on March 31 held a Legislative Committee. I encourage this effort and hope that the rest of the Maryland Section will join in with this group and take a proactive approach to resolving Civil Engineers issues within our Local, State and National legislative bodies. Several examples of the Maryland's crumbling infrastructure can be found by going through ASCE's web page at www.asce.org/reportcard and then clicking on the state reports and selecting Maryland. As I have indicated previously, as Civil Engineers we need to assume some of the responsibility to inform the public and our legislator of what needs to be done to insure safe and effective infrastructure elements in our society. If you are interested in participating in the legislative committee, please contact Jim Woodward @ jim_woodward@urscorp.com, Todd Eckhart @ treckhart@hotmail.com or me at wbarrett@gfnet.com.

I hope that you will attend the May meeting which is our awards night, our traditional night to celebrate civil engineering in Maryland! In addition to presenting awards for projects, and engineers of the year, our Life Members will be introduced. The results of our Section Officers elections will also be announced. Always remember the entire newsletter can be found on our web page <http://sections.asce.org/Maryland>.

Don't forget four things about our Member Appreciation Meeting this year:

It will be a very enjoyable night at the Baltimore Museum of Industry on TUESDAY, June 14th, and not on our usual Wednesday meeting night. June 14th is Flag Day so weather permitting we should be able to enjoy the fireworks at Fort McHenry. Reservations can only be made by sending a check for the tickets to our program chairman, Frank Kaul at Whitney, Bailey, Cox & Magnani.

See you at awards night!

-Art Barrett

JUNE MEETING!

For our annual Member Appreciation Meeting in June, ASCE Maryland Section is pleased to announce a wonderful evening at Baltimore Museum of Industry. The program will include a cocktail hour and a catered buffet dinner on Tuesday June 14, 2005. June 14th is Flag Day so weather permitting we should be able to enjoy the fireworks at Fort McHenry. Don't miss this event and a chance to see wonderful display at the museum.

Location

Baltimore Museum of Industry

Date

Tuesday, June 14th

Time

6 pm until 10 pm

Cocktails

Beer and Wine

Dinner

Catered Buffet Dinner
Crabs Potentially

Specials

Flag Day fireworks at Fort McHenry
(weather permitting)

Reservations

Required by June 3rd
only by sending a check
Please contact
Frank Kaul
410-512-4555
fkaul@wbcm.com



Section Announcements

AIA plans Baltimore Harbor Tour

AIA Continuing Education Committee in celebration of the National Trust's Preservation Month will be boarding a water taxi for a water-side tour and program continuing exploration of changes affecting historic resources along Baltimore's waterfront.

- Invited speakers include Charlie Duff, executive director of Jubilee Baltimore, Laurie Feinberg, City of Baltimore Planning Department, and Katie Hearn and Tonja Bush from Struever Bros. Eccles & Rouse. Speakers will discuss the history of the waterfront, development, zoning and land-use issues, and recent and proposed changes.
- Meeting Location: offices of SBE&R. The Joy Building at Tide Point, 1040 Hull St., Baltimore. 443-573-4000. Ample parking is available in spots marked "visitor" or unmarked spots.
- 5:00-5:45 pm: Arrival, reception and opening remarks
- 6:00: Water taxi departs from Tide Point dock. Attendees will be on board about 1 1/2 to 2 hours, and return to Tide Point.
- Cost: \$15 AIA members; \$25 non-members; \$10 students.
- Space is limited! RSVP with check payable to AIA Baltimore, and send to 11 1/2 W. Chase St., Baltimore, MD 21201. Please note that AIA members will be given priority to RSVP until May 13. Non AIA members may RSVP by phone to 410-625-2585 and will be put on a waiting list until May 13, at which point event will be open to all.

Legislative Update

Support Consideration of Transportation Legislation - Contact your Senators today!

As we finish up the nineteenth month since TEA-21 expired in September 2003, the House of Representatives approved its latest version of reauthorization legislation, the Transportation Equity Act: A Legacy for Users, or TEA LU (H.R. 3) on March 10, 2005. The Senate has yet to schedule time for the Safe, Accountable, Flexible and Efficient Transportation Equity Act (SAFETEA) to be considered for the full Senate. The current extension of TEA-21 expires at the end of May, leaving just seven weeks for reauthorization to be completed to avoid another extension. The legislation approved in March by the Senate Environment and Public Works Committee would provide \$284 billion for highways and transit over six years. ASCE expects that an amendment will be offered on the Senate floor to increase the funding level.

Some facts about transportation conditions in the U.S.:

- * In 2003, over 43,000 people died on our nation's roadways, and inadequate roadway conditions and outdated alignments are a factor in one-third of these accidents.
- * Traffic crashes cost the economy \$230 billion annually.
- * Traffic congestion robs \$70 billion per year from the U.S. economy and denies Americans time with their families.
- * ASCE's 2005 Report Card for America's Infrastructure gave the nation's Roads a grade of D and Transit systems a grade of D+.

City of Baltimore Awarded Fullerton Water Treatment Plant Study


City of Baltimore has awarded the study and preliminary design for a new water treatment plant to Gannett Fleming/Malcolm Pirnie Joint Venture. The Fullerton Plant is planned as a 120 mgd facility that will serve the Baltimore County/Baltimore City water distribution system. The alternatives evaluation, pilot work, and preliminary engineering phase of the project will be a \$5 million effort, scheduled for completion in the spring of 2008. The Fullerton plant will be the largest new water treatment plant constructed in the Baltimore region in 50 years. The Fullerton plant will complete the Susquehanna Water Supply Master Plan. The plan was designed to allow the City to supplement its primary reservoir supplies by reliably treating a river water source.



Welcome New Members

Kwaku Boampong
 Jeffrey Broczkowski
 Winsbert Charles
 Joseph Dimarco
 Gregor Fahrendorf
 Timothy Farrand
 J. Lawrence Hosmer
 Rahul Kesarkar
 Brian Lange
 Qaisar Nadeem
 Colleen OBrien
 Kyle OKelly
 Brian Pietryka
 Mark Sassaman
 Brima Sesay
 Barton Staley
 Robert Taylor
 David Uliana
 William Weiss





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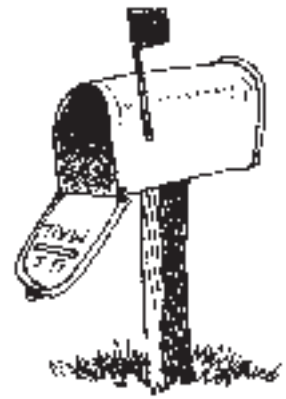
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March MD Section ASCE Newsletter Younger Member News

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



Build Roller Coasters at Port Discovery with ASCE

Plan on joining members of ASCE at our next event at Port Discovery on June 4, 2005. Our last event during National Engineers' Week was so successful that Port Discovery has asked us to return for a kickoff to two of their upcoming exhibits. In June, we'll be helping to jump-start their Boardwalk exhibit. The children will be using K'Nex to build roller coasters, ferris wheels, and other fun things found on aboardwalk. We will spend the day in shifts assisting the children, and perhaps building some models for display throughout the summer. We'll also provide some engineering insight to what the children are building- so they also learn about Civil Engineering.

Our last group had a blast with the large group of children, and the number of children for this event is expected to be much higher.

Looking ahead, we will also be assisting Port Discovery with their Fall Kickoff in early October, so watch for more information in the future! If you are interested in volunteering, there will be two shifts (10AM-1PM & 12PM-3PM). This event is sponsored by the Younger Members, but is open to all members, and we would like to see as many volunteers as possible! For more information, or to volunteer to join us, please contact Michelle Streckfus at michelle@members.asce.org

ASCE Younger Member Profile



This month we're excited to highlight Jeff Bugno! Jeff is a PE for Bay Engineering, Inc. and is an active member of the Maryland Section's ASCE Younger Member Group, serving as the Assistant Social

Activities Director. Hailing from Clarks Summit, PA, Jeff is one of three siblings. One of his brothers currently resides in New York City and his other brother lives in Washington D.C. Jeff is looking forward to remaining active in ASCE and expand his knowledge of the civil engineering field. We recently caught up with Jeff and here are some more interesting facts about him!

Where did you attend College?

The Pennsylvania State University. I earned a

BS in Civil and Environmental Engineering and a minor in Russian Language.

What activities were you involved with at Penn State?

I was on the Homecoming Operation and Physical Plant Committee (OPP) for 4 years. I also played club soccer and co-ed softball.

How active were you in ASCE at Penn State?

I was the Social Chair of the Penn State Student Chapter of ASCE and was a member/paddler for the Concrete Canoe Team. We traveled to the National Concrete Canoe Competition in Cleveland, OH during my senior year.

Describe the type of work you do at Bay Engineering?

I plan and design various land development projects in both the private and public sectors. These projects have included residential, commercial and institutional properties.

What do you enjoy doing outside of work?

I like to play soccer, kickball, golf, and softball. I like traveling too. I am also the Membership Chair for the Baltimore Chapter of the Penn State Alumni Association.

Do you have a favorite vacation spot?

I love the mountains where I can hike, mountain bike and ski. I also love going to the beach.

Other than being Assistant Social Activities Director, how else are you involved with ASCE?

I'm an active member of the Younger Members Forum and play on ASCE Maryland Section's Club Indoor Soccer Team. I'm also a member of the ASCE National Capital Sections Kickball Team.

What is your favorite thing about ASCE?

The opportunity it gives you to meet and interact with younger engineers and with engineers who are established in their careers.

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LOW IMPACT DEVELOPMENT (LID)

(Continued from Page 5)

replaced curb & gutter with grass bioswales (Figure 3), a savings in construction costs of \$60,000. Also the rural road section is a green building design feature that reduces the paving width from 36 to 30 foot width, a 17% reduction in paving costs.

In order to satisfy County criteria for adequate downstream conveyance a downstream impact analysis was conducted. The analysis examined the ability of an LID site design to maintain predevelopment peak discharge conditions for a range of storms including the 1, 2, 10, 50 and 100 year storms. Many public works personnel perceive innovative SWM techniques such as LID capable of addressing water quality issues, but insufficient to provide downstream peak discharge control for the larger flood flows associated with the 10, 50 or 100 year storms.

Initially the site LID hydrologic analysis was based on the 1-year storm (2.5 inch rainfall) that was Frederick County's criteria for water quality control. The downstream analysis revealed that the 1-year storm design was not sufficient to maintain predevelopment peak



Completed Project

discharges for the 10, 50 and 100-year storms. An incremental iterative procedure was then used to determine the additional control requirements that would be required to provide the required downstream control. The analysis showed that by increasing the design storm to the 2 year storm (3.0 inches of rainfall), the required downstream protection for the complete range of flood events (10, 50 and 100-year storms) was achieved.

These results have great significance for future SWM policy and design criteria. It clearly illustrates the tremendous advantages achieved by the volume control approach.

Plans are being considered to monitor this unique site as the other phases of the site are built to verify the benefits of this approach.

A few lessons learned during the construction of the first phase of the development include:

- The site finger printing process creates a tight building site for contractors and needs to allow for some flexibility in its implementation
- Contractors have a tendency to drive equipment over and damage the bioswales requiring frequent repair and reconstruction

These results have great significance for future SWM policy and design criteria. It clearly illustrates the tremendous advantages achieved by the volume control approach. It cannot be sufficiently emphasized that this innovative development project could not have been accomplished without the outstanding cooperation and desire for excellence displayed by the Agency Review team that included of Emmitsburg, MD.

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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Low Impact Development (LID) Innovative Design Technique for Stormwater Management Pembroke Woods Residential Subdivision, Emmittsburg, Maryland

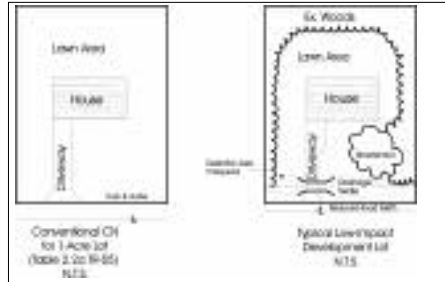
By: Mike Clar - Ecosite Inc.

PROJECT TEAM

- Buckeye Development LLC – Developer and Concept Design
- Ecosite, Inc – LID Designer
- Harris Smariga & Associates, Inc – Civil Design
- Ryan Homes – Home Builder

LID is an innovative approach to stormwater management (SWM) that attempts to mimic the pre development hydrology of a development site thus maintaining the hydrologic functions of the site and precluding the environmental impacts especially the water quality degradation of receiving streams, lakes and estuaries that are normally associated with land development activities. The LID design process integrates SWM controls into a site's landscape by using a series of innovative micro-scale practices such as; raingardens, bioswales and rain barrels in

stormwater is being adopted as the standard for green building site design on a nationwide basis, and is also perceived as part of the smart growth toolbox by the State of Maryland.



LID Site Fingerprinting Technique

The Pembroke Woods Subdivision is a 1/2 acre residential development located in northern Frederick County Maryland and is not only the first LID subdivision permitted in Frederick County, but also the first subdivision designed and under construction using the LID Design Manual developed by Prince George's County, Maryland (P.G. 1997, EPA, 2000). Pembroke Woods was originally designed in the early 1990's as a 1/4-acre lot conventional subdivision with 97 lots, 2 SWM ponds and closed section streets. The original design also required a sewage pump station and most of the wooded site would have been required to be cleared. When redesigned as an LID subdivision, it exhibits and benefits from the win/win attributes of the LID process which include:

- The use of LID allowed the site design to eliminate the use of two SWM ponds which had been envisioned in an earlier concept plan for the site. This represents a reduction in infrastructure costs of

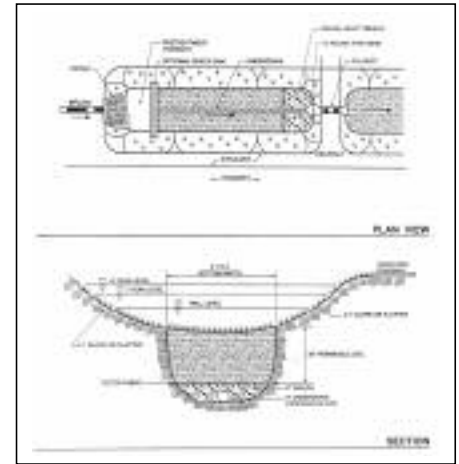
roughly \$200,000.

- In place of the SWM ponds 2.5 acres of undisturbed open space and wetlands were preserved. Again a considerable savings in wetlands mitigation impacts were realized.
- Also the site plan gained two additional lots increasing the 43 acre site yield from 68 to 70 lots. This added roughly \$90,000 in additional value to the project.
- Extensive use of site fingerprinting techniques (Figure 2), an elemental LID design feature, and a green building design feature, allowed the site design to preserve approximately 50% of the site in undisturbed wooded condition. This design feature was essential for maintaining the pre-development curve number (CN), which is very difficult on a wooded site.



Pembroke Site Plan

conjunction with better site planning techniques such as; reduction and disconnection of impervious areas and fingerprinting techniques for site grading. This approach to



Conceptual Detail

- Approximately 3000 linear feet of roads were converted from an urban road section to a rural road. This design feature

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DATED MATERIAL INSIDE

— MEETING NOTICE — AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: Wednesday, May 11, 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. Dave LaBella, Chairman, MD Section ASCE Awards

Program: Maryland Section ASCE 2005 Awards

Abstract: Come join us to acknowledge the 2005 Award Recipients and Life Members. Dave LaBella will introduce us to the 2005 Scholarship winners from John Hopkins University, Morgan State and the University of Maryland at College Park, introduce the new life members of our section and present the Maryland Section Awards for the following:

Civil Engineer of the Year
Young Engineer of the Year
Meritorious Service

Outstanding Civil Engineering Achievement – Less than \$15 Million
Outstanding Civil Engineering Achievement – Greater than \$15 Million
We look forward to seeing you all there for a wonderful meeting to join in support and praise for the well deserving award recipients.

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:

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, MAY 9th 12:00 noon.

FUTURE MEETING DATES:

June 8, 2005
September 14, 2005