

## Message from the President



Hi all,

I hope that you all had a nice Valentines Day since the February meeting had to be canceled. I was somewhat relieved when ESB called me to say they were cancelling all functions for the evening. I was just about ready to call it myself, but they made it easy for me.

A lot will have happened once you read this and attend the March Meeting. The Future Cities competition, The Wood Bridge Challenge and other Engineering Week programs are now completed, so congratulations to the winners. The Indoor Golf sponsored by the Scholarship Committee will also have been held. I know from past years this will have been a great event and as of this writing there are over 160 people registered and 41 hole sponsors.

The speaker for our March meeting will be Anne Pearson who is the Director of Alliance for Sustainable Communities. She will be discussing Stormwater Management Legislative Update. I look forward to finding out what we, as engineers, can do to help.

Since we were not able to host Student Night in February, we have decided to incorporate Student Night into our March meeting. The University of Maryland, College Park, will be providing information during dinner and we will still have the Job Fair for the firms who advertise in the Newsletter. Please contact Kelly Brennan, BrennanK@pb-

*Continued on Page 5*

## PHOTOS FROM THE 2007 INDOOR GOLF TOURNAMENT



**SAVE THE DATE!!**  
**MEMBER APPRECIATION NIGHT**  
**THURSDAY JUNE 14, 2007**  
*from*  
**6:00 PM TO 9:30 PM**  
*at*  
**BOORDY VINEYARDS**  
Look for Details Next Month



## The BIM Revolution

By H. Michael Hill

Last spring, world renowned architect Frank Gehry delivered the keynote address at the 50<sup>th</sup> Annual CSI Show & Convention in Las Vegas. Gehry talked about one of his favorite topics – Building Information Models (BIM) – and described how BIM will change the construction industry forever.

As Gehry suggested, the BIM revolution is particularly relevant for civil engineers, because it will connect them with other disciplines more closely and in different ways than ever before. The revolution will come, he said, only with “the architect, engineer, and everyone working together.”

### A Virtual Catalog of All Project Information

BIM, which is being used on such high-profile projects as New York City’s Freedom Tower, is a computerized model linked to databases that store project information in a variety of forms. It provides a one-stop “virtual building” catalog that allows engineers to access all conceivable project information.

With BIM, a new glazing system entered into the model behaves like an actual glazing system does in relationship to other building components. Change the glazing system, and relationships to affected objects adjust in real time. Because all participants can access the central database, everyone in the project can see the change at the same time and act accordingly.

What will make BIM truly revolutionary is the addition of the fourth dimension of time to the management of object- and process-oriented systems. Everyone on a project team, including engineers and engineering consultants, will have access to up-to-the minute schedules, reports, drawings and visualizations.

### The Revolution is Now

In a recent survey of visitors to the CSI Web site, the Institute asked respondents if they believe BIM will revolutionize the construction industry. Three out of every four said that it will.

That places a premium on getting up to speed on BIM now, even as the transition process unfolds. Engineers need to watch the issue closely and carefully consider their business models as they contemplate a switch to BIM. The investment in time, energy, and money will be significant, and engineers who move too quickly may find that the technology they choose has become obsolete. Those that wait too long could find themselves at a significant competitive disadvantage.

Civil engineers can be sure that BIM will change the industry quickly. We all need to understand how this technology will affect how we do business, and learning about BIM now is a good first step to take.

### Where to Learn More

As crucial members of the building design community, engineers should educate themselves now on the promises of BIM. Fortunately, many sources of information exist:

- ASCE’s Web site ([www.asce.org](http://www.asce.org)) has some information about BIM, and its publications cover the issue fairly regularly.
- CSI ([www.csinet.org](http://www.csinet.org)) is heavily involved in the development of the National BIM Standard and the BIM issue generally.
- Like this one, many trade magazines, newsletters and journals follow the BIM issue closely.

H. Michael Hill, AIA, CSI, CCS, CCCA, LEED™ AP, serves on the Construction Specification Institute’s Board of Director, and is the membership representative on the National Institute of Building Science’s committee developing the National BIM Standard. He is Director of Quality Assurance at Torti Gallas and Partners in Silver Spring, Md

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# MD Section ASCE Newsletter Younger Member News

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



## 2007 Northeast Regional Younger Member Council Well Attended

On January 26-27, 2007, ASCE held its annual Regions 1 & 2 Leadership Conference in Princeton, New Jersey. The conference consisted of three separate parts including the Workshop for Section and Branch Leaders (WSBL), the Northeast Regional Younger Member Council (NERYMC), and the Workshop for Student Chapter Leaders (WSCL); each conference was geared toward promoting and advancing leadership within the three membership sections.

Five members from the Maryland section attended NERYMC. The conference provided an excellent networking opportunity and a chance to draw ideas from other Younger Member groups to incorporate into Maryland's group.

## Attention Volunteers!!!

### Baltimore Hosts 2008 Regional Leadership Conference

Next year, Baltimore will serve as host of the Regional Leadership Conference. While past conferences have consisted only of ASCE sections near the coast from Washington, DC to Maine, the 2008 conference will invite all sections east of the Mississippi River.

The Younger Member group is responsible for organizing the Younger Member portion of the conference including speakers, an evening reception, and social activities. All members of the Maryland section, not just Younger Members, are encouraged to help with planning and organizing the conference.

If you have any questions or would like to get involved, please contact Todd Eckhart, 2008 NERYMC Conference Chair, at [teckhart@members.asce.org](mailto:teckhart@members.asce.org).

### Help Build Ruxton Ridge School's New Playground

The Ruxton Ridge School needs volunteers to give their energy and skills toward possible design/CADD work and construction on a site plan for their new playground. Construction will start middle to late spring. If you're interested in volunteering, contact Jen Reigle at [Jennifer.Reigle@jacobs.com](mailto:Jennifer.Reigle@jacobs.com) for more information.



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**Raymond L. Moravec** has joined Wallace, Montgomery & Associates, LLP, in Towson, Maryland as an Associate in charge of the Transportation Planning Group. Ray holds a bachelor's degree in Civil Engineering from Penn State University and has over 17 years of experience in all phases and aspects of Transportation Planning and the National Environmental Policy Act (NEPA) process. Ray's experience includes highway alignment and transit

studies; environmental technical studies and documentation, such as Categorical Exclusions, Environmental Assessments, Environmental Impact Statements, and Re-evaluations; traffic analysis; highway noise analysis; land use analysis; agency and public official coordination; public involvement and facilitation.

Prior to joining WM&A, Ray served as the project manager for the MD 140 Transportation Improvement Study in Westminster, Maryland and MD 3 Project Planning Study in Anne Arundel and Prince George's Counties for the Maryland State Highway Administration (SHA). As project manager, Ray was responsible for the coordination of the environmental and engineering studies necessary to carry these projects through the NEPA Environmental Streamline Process.

Ray also served as the project engineer for the Task Force on Traffic Capacity Across the Chesapeake Bay for the Maryland Transportation Authority (MdTA). Ray's responsibility included the development and evaluation of transportation corridors for improvements to the existing crossing or new crossing of the Chesapeake Bay in Maryland. Currently, Ray is Conference Committee Co-Chair for the Maryland Quality Initiative (MDQI) and a member of the ASCE and ASHE.



**Robert Hudson, P.E.** has joined Wallace, Montgomery & Associates, LLP, in Towson, Maryland as a Project Manager and Team Leader. Rob is a Registered Professional Engineer in Maryland and three other states, and holds a Bachelor of Science Degree in Civil Engineering from Penn State University. He has over 18 years experience in all aspects of highway design and site develop-

ment. Most recently, Rob has worked as a Project Manager on various roadway improvement projects and ridesharing facilities for the State Highway Administration, including US 219 in Garrett County and US 11 in Washington County. He has also managed and designed roadway improvement projects for the Baltimore County Department of Public Works, including improvements to Grays Road and Patterson Avenue.

Prior to relocating to Maryland, Rob served as Township Engineer for several municipalities in Central Pennsylvania, and as served as consultant project engineer on several highway design and bridge replacement projects for the Pennsylvania Department of Transportation. Rob is also the current Secretary of the American Society of Highway Engineers - Chesapeake Section. With Wallace, Montgomery & Associates, Rob will serve as Project Manager on design projects related to highway and transportation facilities throughout the region.

Whitney, Bailey, Cox, & Magnani, LLC is pleased to announce the following promotions:

**Joseph O'Neil, P.E.**, Senior Vice President, has been promoted to Class B Principal. Mr. O'Neil currently serves as the Branch Manager of the firm's Camp Hill, Pennsylvania office.

**Mindy Hinsley, CPSM** has been promoted to Vice President of Marketing. Mrs. Hinsley recently serves as the firm's Business Development Director.

**Jesse Lindsay, P.E.** has been promoted to Vice President. Mr. Lindsay is a Project Manager within the firm's Marine-Industrial division.

**KCI Technologies Inc.**, a Maryland-based consulting engineering firm with offices in the Northeast, Southeast and Mid-Atlantic, has promoted **Franklin R. Snyder, P.E.**, to vice president. The head of the firm's mechanical and electrical division, Snyder was hired by KCI in August, 2004, and has expanded the services of the division to include building commissioning, fire protection engineering, and plumbing engineering. He has also added a new office in southern Pennsylvania.

With more than 20 years of experience, Snyder has developed a strong foundation of federal, educational, and municipal clients for KCI's mechanical and electrical division. He has managed and designed projects for numerous public and private clients, including the federal government and the public school systems in Baltimore County and the District of Columbia.

Snyder received a bachelor's degree in mechanical engineering technology from Pennsylvania State University in 1992. He is a member of the Building Commissioning Association. He resides in Dallastown, PA.

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# Section Announcements



**Dr. Manoj K. Jha, PE.**, an ASCE member has been promoted to the rank of Associate Professor in the Department of Civil Engineering at the Morgan State University effective Fall 2006. Dr. Jha started his academic career as Assistant Professor of Civil Engineering at the Morgan State University in Fall 2001. At Morgan State he teaches transportation engineering courses, conducts advanced research in transportation systems modeling, and oversees the graduate transportation engineering program. Prior to joining Morgan State, Dr. Jha worked for the Maryland State Highway Administration (SHA) in various capacities, most notably as the Y2K Risk Manager during 1998-2000 and as the Program Manager for the Acquisition of a Maintenance Management System in the highway maintenance division during 2000-2001. Dr. Jha is currently serving as the ASCE-Region 2 governor and treasurer, Maryland Society of Professional Engineers (MSPE) president, and he is a past director of the ASCE-MD section. Dr. Jha lives with his wife Amarjit and daughter Navjot in Severn.

## President's Message (Continued from Page 1)

world.com to reserve your spot. Also check the website for future meeting dates.

All those interested in serving either on the Board or on a Committee next year please let Mandy Schindhelm, [mandy@members.asce.org](mailto:mandy@members.asce.org), or another Board or Committee Chair know.

In closing, I want to mention that we will be going to the Boordy Vineyards for the Members Appreciation Meeting in June. This year it will be on June 14<sup>th</sup> which is a THURSDAY not Wednesday like our normal meeting date.

See you at the March meeting!

John M

## CONTINUING COURSES ANNOUNCEMENT

The Maryland Society of Professional Engineers (MSPE), in collaboration with ASCE-MD section will offer a number of short courses during Spring 2007. The courses will be offered in April-May timeframe and announcements will be posted on the MSPE website at: <http://www.mdspe.org/CONTINUINGEDUCATION.htm>

Dr. Manoj K. Jha of the Morgan State University will offer two 2-day courses: highway design and traffic engineering. The continuing courses will be beneficial to working professionals. For further information about MSPE spring continuing course offerings please contact Bob Mead, MSPE executive director at: 410-675-8967 or by email at: [md.spe@verizon.net](mailto:md.spe@verizon.net).

## ENGINEERING SCHOLARSHIPS FROM NORTH GRUMMAN CORPORATION

Applications are now being accepted for the fifth annual Northrop Grumman Corp Engineering Scholarship competition, which will provide a total of \$240,000 in college scholarships across Maryland this year to promising high schools seniors interested in studying engineering. Individual scholarships of \$10,000 will be awarded by Northrop Grumman this spring to qualified graduating high school senior in each of Maryland's 23 counties and Baltimore city. The application deadline is March 31. To apply go to [www.es.northropgrumman.com/engscholars](http://www.es.northropgrumman.com/engscholars).

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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## — MEETING NOTICE — AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: Wednesday, March 14, 2007  
Time: 6:00 PM – Cocktails  
7:00 PM – Dinner  
8:00 PM – Meeting

Place: The Engineers Club, 11 W. Mount Vernon Place  
Speaker: Ms. Anne Pearson, Alliance for Sustainable Communities  
Program: **Stormwater Management Legislative Update & Student Night 2007**

**Abstract:** Anne Pearson is the Director of Alliance for Sustainable Communities. She will discuss House Bill 1024 which offers a subsidy for Low Impact Development as well as House and Senate Bills: **STORMWATER MANAGEMENT ACT OF 2007**, requiring local governments to update zoning ordinances to allow for the implementation of environmental site design techniques in specified stormwater management practices and requiring the Department of the Environment to adopt regulations that establish a model ordinance or model regulation for specified purposes. She will also talk about a new concept "Stormwater Utility", a legislative process to create sufficient funds to provide for watershed restoration that will help restore Maryland Creeks and Rivers and the Chesapeake Bay.

Due to inclement weather "Annual Student Night", earlier scheduled for Feb 14<sup>th</sup> was cancelled and is being combined with March meeting. This year's program is being sponsored by University of Maryland, College Park, ASCE Student Chapter.

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:

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

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

### FUTURE MEETING DATES:

April 11, 2007  
May 9, 2007