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Richmond Branch - ASCE
<http://www.ascevirginia.org>

INSIDE THIS ISSUE

1 September Meeting Information

2 7th Annual Golf Tournament, Update on DCR Stormwater Regualtions

3 MEET THE...Education Chair Mike Howell

4 Upcoming events, Newsletter sponsor

Sophisticated Sequencing of Water Transmission Main Repairs

Date: September 22, 2009

Place: Westwood Club

Time: 12:00 Lunch, 12:30 Program

Costs: \$20.00

Menu: Option 1 - Salad, Grilled Pork Loin, Sweet Potatoes, Green Beans, & Dessert

Option 2 - Salad, Grilled Chicken, Sundried Tomatoes Rice, Spinach & Dessert

Option 3 - Salad, Pasta Primavera, and Dessert

Contact Bryan Stevenson at bryan.stevenson@aesva.com or 330-8040 by the end of the day on September 18, 2009.

The Richmond Water Treatment Plant (100+ MGD) and distribution system of water mains, pumping stations, and storage facilities provide water to approximately 500,000 customers in the city and surrounding counties. As part of an ongoing program to maintain the distribution system, the water transmission mains are scheduled to be upgraded. The project, under construction now, includes numerous scheduling and design challenges. The project includes rehabilitation of two of the four existing transmission mains by dig and replace, relocation, or rehabilitation, where necessary. Additionally, the project includes installing valves and access manholes, construction in waterways, CSX railroad crossings, access ramp work, microtunneling, electrical instrumentation, controls and programming work, PCCP pipeline testing and inspection, environmental services for relocation of river mussels and wetland restoration, and James River bank restoration. Construction will follow a three phase, four year schedule for completing the work in periods of low seasonal water demand and to comply with environmental permits.

Greeley and Hansen's (and our own Young Member Chair) Denise Nelson, P.E. will be speaking to us about the sophisticated sequencing of scheduling construction repairs for such essential pieces of infrastructure. A variation of the presentation will be included in this year's Water JAM by co-authors Bill Judy, Roger Cronin, and Ed Alleyne.

The 7th Annual ASCE Golf Tournament and Picnic October 6, 2009

The annual Golf Tournament and Picnic will be held on October 6, 2009 (rain date - October 13, 2009) this year at Rivers Bend Golf Course. The tournament, hosted by the Young Member Group, is a fundraiser for the Branch's ASCE Civil Engineering Scholarship Fund at UVA.

Did you know ?... Participation and donations to the golf tournament are tax deductible (tax ID #23-7066182) within all appropriate tax laws.

Included with this newsletter is a flyer about the event. Craig Ponte will be leading the efforts for this year's tournament and he could use your help. Contact Craig at CPonte@ammann-whitney.com or 804-262-5111 if you are interested in being involved.

Updates on new DCR Stormwater Regulations

The Department of Conservation and Recreation (DCR) completed the public hearing/public comment period on the following two regulation changes:

- Amendments to statewide permit fee schedule and to improve the administration and implementation of fees
- Amend Parts I, II, and III of the Virginia Stormwater Management Program Permit Regulations to address water quality and quantity and local stormwater management program criteria.

Since the close of the public comment period, DCR is considering revisions to the regulations. These revisions can be found at:

<http://www.dcr.virginia.gov/documents/swmp123findisc.pdf>

These revisions will be discussed at the upcoming Virginia Soil and Water Conservation Board Meeting, Sept. 17, 2009 at 9:30 am. An agenda with additional information can be found here: <http://www.dcr.virginia.gov/documents/swmp123finagnda.pdf> A special meeting of the Virginia Soil and Water Conservation Board Meeting will be held on October 6, 2009 to vote on the passing of the regulation revisions.

The Section Stormwater Technical Committee wrote a letter to DCR with technical comments by individual ASCE members. The committee is meeting to further prioritize comments for the State Water Control Board and DCR.

MEET THE... Education Outreach Chair Mike Howell



Mike Howell

This month we profile Education Outreach Chair Mike Howell. Mike has been very active in pre college education outreach with the Branch for a few years. Mike organized last year's successful popsicle stick competition at Engineer Career Day. Mike works as a structural engineer for Austin Brockenbrough and Associates.

Where are you from and where did you go to school?

I grew up in a little town northwest of Pittsburgh, Pennsylvania and moved to Richmond about 2 years ago. I studied Civil Engineering at the University of Pittsburgh.

Why did you become a Civil Engineer?

Until Christmas of my senior year in high school I was on track to major in history (I wanted nothing to do with math or science). At the urging of a Physics teacher, I decided to look into Civil Engineering. Once I heard a college recruiter describe it as "it's kind of like building with really expensive Lego's" I was hooked and the rest is history.

What is the most interesting thing you have done in your career?

Right after college I took a job with a general contractor and I was sent to work on the Woodrow Wilson Bascule Replacement project in Washington DC. The existing bridge was being replaced with a twelve lane wide span which, at the time, was the largest drawbridge in the world. My main responsibility was for the demolition of the existing bridge. The most memorable part of the project was when the Discovery Channel was doing a special on the project for its show "Modern Marvels" and I was filmed right in the front of the shot. It could have been my fifteen seconds of fame...if I wasn't reading the wrong side of the stick-ruler when I was taped!

What is your role on the Board?

I was recently appointed to the new position of Educational Outreach Chair.

What Educational Outreach does the Branch do?

In addition to our annual Popsicle Bridge Contest, Branch members serve on the LC Bird Pre-Engineering School Board of Directors, serve as advisors for the Swift Creek Middle School Future City Competition, and members have helped with numerous career and science fairs around the area. Additionally, several members have gone into students classrooms to talk about the field of Engineering.

Why is Educational Outreach important for the Branch?

If you ask the average student what an engineer does they will probably reply "they do math stuff" or at best "they build stuff". The solution to the shortage of engineers we always hear about is sitting in the classroom but they have no idea what engineers do! It's my hope to educate students about the field through our outreach efforts. The Popsicle Bridge Contest was enormously successful this past year and I hope that it will continue to be the keystone to our outreach efforts.

If you are interested in outreach opportunities including mentoring or speaking please feel free to contact Mike Howell at 804-777-3058 or mhowell@brockenbrough.com .

Schedule of Upcoming Richmond Branch and other Events

Date	Speaker	Topic	Location
September 15	-	Last Day to respond on Election Ballots	
September 16-17	-	2009 Virginia Engineer's Conference	Williamsburg Kingsmill Marriott
September 17	ASCE President Wayne Klotz	Virginia Section Annual Banquet	Williamsburg Kingsmill Marriott
September 22	Denise Nelson	Water Transmission Mains Repairs (Sept. Branch Meeting)	Westwood Club
September 22	-	UVA ASCE Networking Night	Thornton Hall (UVA)
October 6	-	7 th Annual ASCE Golf Tournament and Picnic	Rivers Bend Golf Course
October 20	Speight, Marshall and Francis	Williams Mullen Building Structural	Westwood Club

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Support your branch! Would you like to advertise your company's logo in next month's issue? The cost is \$10 (checks only, made payable to ASCE Richmond Branch). Contact any board member for details.

Did you know there are over 200 active members of the Richmond Branch! Do you have something to say? Would you like to contribute an article? Let's hear from you, and maybe your thoughts will be in the next newsletter. Contact Bryan Stevenson at 330-8040.