

WATER E-NEWS

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Delaware Water Resources Center (*DWRC*) <http://ag.udel.edu/dwrc/>
UD Water Resources Agency (WRA) <http://www.wr.udel.edu/>

In this month's issue, online at <http://ag.udel.edu/dwrc/> :

- I. *DWRC NEWS*: Spotlight on 2009-10 *DWRC* Undergraduate Intern J. Rufft
- II. *JOBS IN WATER RESOURCES*: Nanticoke Watershed Volunteer Coordinator
- III. *UPCOMING WATER CONFERENCES / EVENTS*: DE AWRA Scavenger Hunt
- IV. *WATER RESOURCES INFORMATION / TRAINING*: USGS Stream Info Links

I. *DWRC NEWS*

Spotlight on 2009-10 *DWRC* Undergraduate Internships



UD's Department of Civil and Environmental Engineering *DWRC* intern Jennalee Rufft tells of her experience working in Sussex County, Delaware, this summer. "The Cape Henlopen Rapid Infiltration Basin Systems (RIBS) have been operating for approximately 27 years and, with the growing

importance for successful treatment systems, testing and assessing the RIBS performance has become imperative. As an intern with the Delaware Geological Survey, I conducted Double-Ring Infiltration experiments. In my work I applied two enhancements to the experimental procedure. For the first enhancement, Time Domain Reflectometry (TDR) was used to measure moisture content at different increments below surface, from 9 inches to 6 feet. The second enhancement used data logger probes to measure water depth in the inner and outer rings. With the depths and moisture contents, I estimated the infiltration rates through ground surface while monitoring how the water moves below surface. By doing these tests, RIBS can be better understood and utilized more efficiently at Cape Henlopen."

II. JOBS IN WATER RESOURCES

Nanticoke Watershed Alliance (NWA) Seeks Volunteer Coordinator

There is an immediate opening for an AmeriCorps' Volunteer Coordinator at the NWA in Vienna, MD. This is a full-time, paid staff position and a good way for someone to enter into the environmental community on the Eastern Shore. A detailed position description is found at <http://ag.udel.edu/dwrc/>. Further information about the NWA can be found at <http://www.nanticoke river.org/> and by contacting NWA Programs Manager Megan Ward at meganward@nanticoke river.org and 410-873-3045.

Delaware State University offers water-related undergraduate and graduate assistantships, and undergraduate scholarships. Contact Dr. Dennis McIntosh, phone 302-857-6456, fax 302-857-6402, e-mail dmcintosh@desu.edu, or visit <http://cars.desu.edu/aqua-sci/opportunities.htm>.

For news about fellowships through the **University of Delaware College of Earth, Ocean, and Environment** (formerly the College of Marine and Earth Studies), visit <http://www.ceoe.udel.edu/prospective/scholarships/index.shtml>.

III. UPCOMING WATER CONFERENCES / EVENTS

Sunday, Sep. 20, 2009: Southeastern Pennsylvania Coast Day

This free event will be held near the River Link Ferry at Penn's Landing, Philadelphia, PA, from 11 a.m. – 4 p.m. Visit http://www.delawareestuary.org/news_coastday.asp.

Oct. 7-9, 2009: 2nd WaterSmart Innovations Conference and Exposition, Las Vegas, NV. Visit <http://www.WaterSmartInnovations.com>.

Thursday, Oct. 8, 2009: 2009 Experience the Estuary Celebration

Organized by The Partnership for the Delaware Estuary, **"Dive into the Delaware,"** features a cocktail reception, auctions, dinner, and music, on the Delaware River at the Adventure Aquarium in Camden, NJ. **RSVP no later than Sep. 23.** Visit http://www.delawareestuary.org/news_dinner_reception.asp.

Friday, Oct. 23, 2009: Delaware Environmental Institute Inaugural Event

The University of Delaware will announce the formation of the Delaware Environmental Institute (DENIN). The institute will be housed at UD but will be a statewide institute affiliated with other educational institutions and entities in the state. Event details are forthcoming. Visit <http://ag.udel.edu/dwrc/> for updates.

Dec. 10-13, 2009: National Ground Water Association Expo, New Orleans, LA.
Visit <http://www.ngwa.org/2009expo/index.aspx>.

Apr. 11-15, 2010: Ground Water Summit

The 2010 conference, "**Groundwater for a Thirsty World,**" will be held in Denver, CO. Visit <http://www.ngwa.org/summit2010/index.aspx>. **ABSTRACT DEADLINE NOV. 6.**

***** 2009 WATER QUEST SCAVENGER HUNT *****

The Delaware Section of the American Water Resources Association is hosting the 2nd annual (fun and free!) statewide scavenger hunt. It will begin in early October and run through early November. A grand prize will be awarded for speed, creativity, and completeness of the package. Teams must consist of 2-4 individuals, age 18 and over. Details and registration information are found at <http://www.deawra.org/scavhunt>.

The **Delaware Section of the American Water Resources Association** meeting information is found at <http://www.deawra.org/meetings>.

The **Delaware Nutrient Management Commission** (as well as other State of Delaware departments) public meeting and workshop information is found at <http://www.delaware.gov/egov/calendar.nsf/>.

IV. WATER RESOURCES INFORMATION / TRAINING

Nutrient Concentrations Remained Stable in Many Streams from 1993-2003

The USGS National Water Quality Assessment (NAWQA) Program has posted links to 1) information on changes in nutrient concentrations and loads in streams and rivers and how these changes correspond to streamflow and nutrient sources; 2) information on how trends in total nitrogen and total phosphorus concentrations vary by major geographic regions of the U.S.; 3) maps of changes in nutrient concentrations, sources, and streamflow, 1993-2003; and 4) regional scale assessments of examined trends in nutrient and suspended sediment concentrations and loads, along with contact information for selected major river basins. Find all these links at http://water.usgs.gov/nawqa/pubs/nutrient_trends/.

Online predictions for stream concentrations of the herbicide atrazine are now available as interactive maps and graphs for any stream in the U.S., as based on the Watershed Regression for Pesticides (WARP) USGS statistical model. Visit <http://infotrek.er.usgs.gov/warp/>. The contact for WARP questions is Bob Gilliom, rgilliom@usgs.gov and 916-278-3094.

The **Delaware Nutrient Management Commission's** most recent CAFO newsletter contains information on managing stormwater on the farm. Read at <http://ag.udel.edu/dwrc/>.

World Water Monitoring Day™: This international public awareness education and outreach program will be celebrated on September 18, 2009. Visit <http://www.worldwatermonitoringday.org/>.



Welcome new subscribers! Contributions, comments and questions are always appreciated. Water E-News serves citizens interested in topics on Delaware water resources and is published by the Delaware Water Resources Center, University of Delaware. Our address: 113 Townsend Hall, Newark, DE 19716-2103. Phone: 302-831-0847; fax: 302-831-0605; Web: <http://ag.udel.edu/dwrc/>. Dr. Tom Sims, Director, email jtsims@udel.edu; Maria Pautler, Program Coordinator, email mpautler@udel.edu. To unsubscribe, email mpautler@udel.edu with "Unsubscribe Water E-News" in the subject line.