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### I. **DWRC NEWS**

#### Mentors / Projects Needed: 2011-12 DWRC Undergraduate Internship Program


- **Current faculty advisors, application materials, report and poster requirements:** [http://ag.udel.edu/dwrc/internships.html](http://ag.udel.edu/dwrc/internships.html)

Students having a 3.0 GPA or better enrolled at any Delaware institute of higher learning (except those graduating in Spring ‘11) may **apply through Mar. 25, 2011** for **DWRC**’s undergraduate internships and earn up to $3500 at the rate of $10 per hour worked. **DWRC**’s research and education opportunities are especially attractive to undergraduates seeking mentored experiences leading to publication and possibly a degree with distinction or senior thesis. All interns must have the active support of a mentor who matches intern earnings 2:1, usually through a commitment of time to the project. Advisors may mentor up to two students concurrently.

If you would like to mentor a deserving **DWRC** intern and/or propose a project of up to 350 hours to be completed by Feb. 29, 2012, contact Maria Pautler at 302-831-0847 or mpautler@udel.edu.
Friday, April 22, 2011: Free DWRC 2010-11 Undergraduate Internships research project Poster Session, part of larger session sponsored by UD Undergraduate Research Scholars Program. 2:00 p.m. - 4:30 p.m., UD Trabant University Center Multipurpose Rooms A, B & C, Newark, DE.

Visit http://www.udel.edu/water/ to learn about the activities of UD WATER (Watershed Action Team for Ecological Restoration).

II. JOBS IN WATER RESOURCES

2011-12 Delaware Water Resources Center undergraduate internships. See I above.

The EPA's National Network for Environmental Management Studies (NNEMS) 2011 Student Fellowships program has been announced. The application deadline is Mar. 4, 2011. For details and an application visit http://www.epa.gov/education/students.html.

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, email dmcintosh@desu.edu, or visit http://cars.desu.edu/aqua-sci/opportunities.htm.

Visit http://www.ceoe.udel.edu/prospective/scholarships/index.shtml for news about fellowships through the University of Delaware College of Earth, Ocean, and Environment.

III. UPCOMING WATER CONFERENCES / EVENTS

Thursday, Mar. 10, 2011: Water Forum
The Source Water Collaborative (http://www.protectdrinkingwater.org/), a coalition of 23 national organizations and agencies united to protect sources of drinking water, will hold the first-ever Delaware River Basin Drinking Water Forum. This free event will simultaneously take place at eight linked locations around the basin and will also be viewable online via live webcast. The focus of this forum is to identify and explore issues impacting the quality and quantity of the basin's drinking water, as well as overall sustainability of the basin's water resources. For details on the event locations and how to register, visit http://www.delawarebasindrinkingwater.org/. For a downloadable flyer, visit http://www.state.nj.us/drbc/DRBForum031011.pdf. The Delaware River Basin Commission (http://www.state.nj.us/drbc/) is one of the local hosts for this forum.
Apr. 1-2, 2011: Symposium on fresh ways to think about water
The symposium, “In the Terrain of Water,” will be held at PennDesign (The University of Pennsylvania School of Design) in Philadelphia, PA. Visit http://www.design.upenn.edu/calendar/terrain-water.

Apr. 18-20, 2011: AWRA Spring Specialty Conference

May 1-5, 2011: Groundwater Summit

May 22-26, 2011: World Congress
The World Environmental & Water Resources Congress, with its technical program “Bearing Knowledge for Sustainability,” will be held in Palm Springs, CA. Visit http://content.asce.org/conferences/ewri2011/index.html.

The Delaware Section of the American Water Resources Association meeting information is found at http://www.deawra.org/meetings. Learn about the activities of the Delaware Student Section at http://student.deawra.org.

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

The World Water Monitoring Day program (http://www.worldwatermonitoringday.org/) (WWMD) announces the release of a series of water monitoring lesson plans developed in partnership with water education nonprofit Project WET. Covering monitoring program design, common water quality indicators, cumulative human impacts, and graphic analysis, these lessons provide a convenient guide for groups wishing to augment their WWMD monitoring activities. Access the plans at http://www.worldwatermonitoringday.org/Resources/Toolkits.html.

The Pacific Institute launches the Water and Climate Bibliography. The Bibliography is a comprehensive database of scientific literature pertaining to climate change and freshwater resources worldwide. The current version contains more than 4,300 entries. The goal is to provide a valuable resource for the academic community, policymakers, and individuals interested in the science and policy of climate change and water resources. Access the Bibliography at http://biblio.pacinst.org/biblio/.
Judith Denver of the Delaware Office of the Maryland-Delaware-DC Water Science Center of the USGS shares that a new National Water-Quality Assessment report on groundwater quality in the Piedmont, Blue Ridge, and Valley and Ridge is available (online at http://pubs.usgs.gov/sir/2010/5176 or in hard copy by e-mailing jmdenver@usgs.gov):


The sources, fate, and transport of phosphorus from groundwater to streams were evaluated using water-quality data collected from 1991 through 2007 in paired networks of groundwater and streams in different hydrogeologic and land-use settings of the Piedmont, Blue Ridge, and Valley and Ridge Physiographic Provinces in the eastern United States. Geochemical controls effectively limit phosphorus transport to streams in areas underlain by carbonate rocks and elevated concentrations of phosphorus in stream base flow are presumably derived from local anthropogenic sources. In crystalline and siliciclastic settings, however, phosphorus from mineral or human sources may be effectively transported by groundwater and contribute a substantial fraction to base-flow stream loads. Mineral dissolution was identified as the dominant source of phosphorus in the groundwater and streams in these settings. The potential for geologic contributions of phosphorus to water may be an important watershed management consideration as concentrations of phosphorus in streams at base flow and in groundwater commonly exceed ecological criteria for streams in the study area.

From Matt Larsen, USGS Associate Director for Climate and Land Use Change:
“… visit the USGS Science Strategy website (http://www.usgs.gov/start_with_science/) to review the draft “USGS Global Change Science Strategy: A Framework for Understanding and Responding to Climate and Land-Use”…. The draft will be available for a 60-day period. Comments received will be taken into consideration in preparing the final document. The website also includes background material… and the strategic science planning process for all the USGS Mission Areas. Please help us create a compelling, comprehensive, and relevant strategy by visiting the site to offer your input.”

Sierra Club Student Coalition offers Summer Programs (SPROG) for Environmental Leadership Training. Visit http://www.ssc.org/.

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