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I. **DWRC NEWS**

2010-11 **DWRC Undergraduate Internship Program Poster Session**

**Friday, April 22, 2011**: Free and open to all interested individuals

**DWRC** 2010-11 Undergraduate Internships research project Poster Session, part of the larger session sponsored by the UD Undergraduate Research Scholars Program (http://urp.udel.edu/content/scholar-poster-session-2011), 2:00 p.m. - 4:30 p.m., UD Trabant University Center Multipurpose Rooms A, B & C, Newark, DE.


- Poster requirements: [http://urp.udel.edu/content/poster-instructions](http://urp.udel.edu/content/poster-instructions)

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

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II. **JOBS IN WATER RESOURCES**

2011-12 **Delaware Water Resources Center undergraduate internships**

The newest internship projects will be announced in the next issue of Water News.
Water Resources Research - Competitive Grants Program
Request for Proposals – FY 2011

The Institute for Water Resources (IWR), U.S. Army Corps of Engineers (USACE), in cooperation with the National Institutes for Water Resources (NIWR), requests proposals for grants to support applied investigative proposals for specific areas related to water resources issues in the United States. The purpose of this grant is to stimulate investigation and analysis that develops and effectively communicates reasoned and practical alternatives to select challenges in National water resource policy. Proposals that include a strong educational component (student support) are encouraged. The IWR and NIWR prefer that efforts supported by this program involve substantial collaboration between the IWR and university scientists, which can range from use of USACE data and information to the mutual involvement of the IWR and university scientists on projects. The RFP is found at http://www.wrri.msstate.edu. Proposals, requesting up to $200,000 in federal funds, will be for projects that conclude by submission of a final draft paper to the IWR not later than August 1, 2013. Proposals must be submitted to the IWR by 4:00 PM, EDT, Monday, August 1, 2011. All portions of the proposal must be submitted by a NIWR designated Water Resources Research Institute or Center by email in PDF format to IWR.Research@usace.army.mil. Applicants whose proposals are selected for funding will be requested to submit their proposals to the U.S. Geological Survey through the website at www.grants.gov. (Successful applicants will be provided instructions for submitting their applications on grants.gov.) Questions may be directed to Dr. Joe Manous, phone 703-428-7074 or email Joe.Manous@usace.army.mil. The Government's obligation under this program is contingent upon the availability of funds.

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

Apr. 17-22, 2011: Earth Week at the University of Delaware
Visit the Earth Week website at http://www.udel.edu/earthweek for schedule of events.

Apr. 18-20, 2011: AWRA Spring Specialty Conference
Energy and Environmental Policy Colloquium

SPEAKER: Dr. Medha Patkar
National Convener
National Alliance of Peoples Movements (India)

SUBJECT: “Livelihoods and Development: An Activist’s Perspective”

DATE: April 21, 2011

TIME: 12-1:30 p.m.

PLACE: Ewing Room; Perkins Student Center

~Lunch will be provided~

As National Convener of the National Alliance of People’s Movements, Medha Patkar leads India’s (and possibly, the world’s) largest civil society movement. An alliance of peasant, tribal, dalit (socially oppressed), women, youth and labor groups across India, NAPM challenges globalization and liberation-based economic policies, advocating alternative livelihoods-based development designed and decided directly by people. In addition, Shrimati Patkar is an organizer for Namada Bachao Andolan (“Save the Narmada River” Campaign), a non-violent resistance movement that opposes plans for dams and canals that would disrupt the lives and livelihoods of millions of farmers, grazers, and tribal communities whose ancestors have stewarded this watershed for centuries. For her work, Shrimati Patkar has been internationally recognized, receiving the Right Livelihood Award, the Goldman Environment Prize, the BBC Green Ribbon Award, and Amnesty International’s Human Rights Defender Award, among others. Her efforts are credited with building successful civil society cases that led to the withdrawal of the World Bank from the Sardar Sarovar dam project on the Narmada, and the dissolution of state contracts with Enron for an unneeded powerplant in western India. She has led teams to organize relief efforts in the wake of cyclones, tsunamis and earthquakes across India and has effectively challenged government plans and policies that would displace and burden at-risk communities after these calamities. She is presently engaged in an Indian Supreme Court case questioning the government’s continuation of dam and canal projects in the Namada Valley. Shrimati Patkar has faced false government charges and police assaults, threats and intimidation for her stances. She and colleagues of NAPM and NBA have brought hope to millions of people in and beyond India.

Sponsored by the
Center for Energy and Environmental Policy and
the Graduate Program in Energy and Environmental Policy
University of Delaware
Saturday, Apr. 30, 2011: UD College of Agriculture and Natural Resources 36th annual Ag Day and UD Botanic Gardens Spring Plant Sale. Rain or shine, 10 a.m. – 4 p.m. Schedule of events and location are found at http://ag.udel.edu/agday.

May 1-5, 2011: Ground Water 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.

Jul. 9-10, 2011: Gordon-Kenan Research Conference and Seminar

Jul. 17-22, 2011: GLOBE Annual Partner Meeting
The meeting, “Expanding International Perspectives about Climate,” will be held in Washington, DC. Visit http://globe.gov/events/2011-annual-meeting.

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

EPA has released the final report titled, “Climate Change Vulnerability Assessments: Four Case Studies of Water Utility Practices.” This report was prepared by the National Center for Environmental Assessment’s Global Climate Research Staff in the Office of Research and Development and presents a series of case studies describing the approaches currently being taken by four water utilities in the United States to assess their vulnerability to climate change. Access the report and comments at http://cfpub.epa.gov/ncea/global/recordisplay.cfm?deid=233808.
From the Centers for Disease Control and Prevention:

Drought is a natural phenomenon. During a drought, rainfall levels or other precipitation types are lower than average for an extended period, resulting in an inadequate water supply. Although the literature contains many well-researched articles on the aspects and implications of drought itself, the Centers for Disease Control and Prevention (CDC) recognizes much is yet to be learned about how drought affects public health in the United States. With regard to drought preparedness and response, public health experts at all levels operate today with only limited guidance. With regard to how water shortages affect public health at the community level, overall understanding is less than optimal.

In response, CDC’s National Center for Environmental Health (NCEH) developed “When Every Drop Counts: Protecting Public Health during Drought Conditions—A Guide for Public Health Professionals.” This publication is intended to assist public health officials, practitioners, and other stakeholders in their efforts first to understand and then to prepare for drought in their communities. It provides information about how drought affects public health, recommends steps to help mitigate the health effects of drought, identifies future needs for research and other drought related activities, and provides a list of helpful resources and tools.

To access a fact sheet about the publication and view the publication itself, visit http://www.cdc.gov/nceh/ehs/Publications/Drought.htm.

From the U.S. Geological Survey’s National Water-Quality Assessment Program (NAWQA), in cooperation with the Conservation Technology Information Center (CTIC):

A newly released data series report and maps that document county-level tillage practices by 8-digit hydrologic unit watersheds are found in “Tillage Practices in the Conterminous United States, 1989-2004 – Datasets Aggregated by Watershed.” County-level data were aggregated, including three types of conservation tillage (no-till, ridge-till, and mulch-till), reduced tillage, and intensive tillage. The dataset includes total planted acreage by tillage type for selected crops (corn, cotton, grain sorghum, soybeans, fallow, forage, newly established permanent pasture, spring and fall seeded small grains, and “other” crops) for 1989-2004. This national dataset can be useful in spatial and statistical analyses of land-management practices and their possible effects on the quality of water in nearby surface-water bodies and groundwater. Access the report at http://pubs.usgs.gov/ds/ds573/.

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 ltsims@udel.edu; Maria Pautler, Program Coordinator, email mpahtler@udel.edu. To unsubscribe, email mpahtler@udel.edu with “Unsubscribe Water E-News” in the subject line.