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SDWRI Water News

South Dakota Water Resources Institute

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SDWRI WATER NEWS

SOUTH DAKOTA WATER RESOURCES INSTITUTE
SOUTH DAKOTA STATE UNIVERSITY
COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

SEPTEMBER 2013

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The 8th Annual Eastern South Dakota Water Conference

October 30, 2013 at the University Student Union at SDSU

Conference stipends covering travel, hotel and registration are available. Contact Trista Koropatnicki at trista.koropatnicki@sdstate.edu or 605-688-4910 for more information.

The goal of the ESDWC is to bring stakeholders in water resources, including policy makers, industry, agriculture, officials from federal, state, and local governments, universities, engineers, interest organizations and the citizens of the state together to exchange information, discuss solutions to current and emerging water resources topics, define new policies and network to form professional relationships. In addition, a large number of college-level students from engineering, agronomy and other biological sciences attend the conference to engage in water-related discussions of relevance to the state and the region and meet with prospective employers

Conference Website: http://www.sdstate.edu/abe/wri/activities/ESDWC/index.cfm





USGS 104b Request for Pre-Proposals

We are pleased to announce the fiscal year 2014 104b grant competition, pending program approval and Congressional funding. Proposals are invited from faculty or affiliates employed at all South Dakota public universities and colleges on topics relating to water resources science and engineering.

The deadline for pre-proposal submission to the South Dakota WRI is **November 15**, **2013.** See http://www.sdstate.edu/abe/wri/research/index.cfm or contact Trista Koropatnicki at 605-688-4910 or Trista.koropatnicki@sdstate.edu for more information.



Representative Kristi Noem discuss form policies



Dennis & Jeppe talking to visitors

SDSU ice cream social

The Water Resources Institute, Department of Agricultural & Biosystems Engineering, and the SD Climate Office participated in Dakotafest August 20-22, 2013 in Mitchell, SD. Our shared booth showed ongoing research projects. The SD Climate Office sold CoCoRaHS rain gauges at a discounted rate.



Hefty Field Day July 29th Baltic, SD



In conjunction with Hefty Field Day, WRI personnel demonstrated the design and installation of a denitrifying woodchips bioreactor to remove nitrate from subsurface drainage water.



Jeppe is explaining the nuances of controlled drainage. The drainage water management/subirrigation model is on the front of the table and the bioreactor model is on the rear of the table.

AG DRAINAGE FIELD DAY

The South Dakota Water Resources Institute sponsored a field trip for ten undergraduate students to the Ag Drainage Field Day held in Luverne, MN. The Field Day featured presentations by producers and representatives from commodity groups and academia, discussing practical and theoretical aspects of conservation drainage practices such as denitrifying woodchip bioreactors, controlled drainage and saturated buffers. A demonstration site was visited after lunch.



Students from Soil and Water Mechanics gearing up for ag drainage field day in Luverne, MN.

Irrigation Show & Education Conference



Ms. Ntsieng Rasoeu, who is working towards her graduate degree in Agricultural and Biosystems Engineering with support from the Water Resources Institute, has been awarded a full scholarship to attend the annual Irrigation Show and Education Conference held in Austin, Texas on November 4-8 2013. Ms. Rasoeu will participate in the educational programs as well attend other aspects of the show.

Woodchip Bioreactor Installation



Personnel and students from the South Dakota Water Resources Institute and the Department of Agricultural and Biosystems Engineering completed the installation of a third woodchip bioreactor. Water from a tile drainage systems is routed through a trench filled with woodchips where nitrate-nitrogen is converted into atmospheric nitrogen gas. For more information please see www.sdstate.edu/abe/wri/research-projects/bioreactors.cfm





Arturo Gonzalez, Graduate Student

The study of Water Management with emphasis on Crop Water

Productivity and Evapotranspiration has been of great interest in my professional development, especially in my research in Irrigation Water use by agricultural crops area. I have had experience working in Irrigation District and Research in Experimental Station with satisfactory results, doing my work with enthusiasm because gives me the opportunity to do what I like. I am convinced that the South Dakota State University (SDSU) was my best choice for carrying out a doctoral program; it is recognized for excellence in its



programs and academics in Agricultural and Biosystems Engineering. I want to obtain a Ph. D in Agricultural and Biosystems Engineering Department, because I wish to become a good researcher and better person, and apply the knowledge to develop tools that save water resources in my country.

Van C. Kelley

Director

Kevin Dalsted

Assistant Director

Jeppe Kjaersgaard

Assistant Professor

Boris A. Shmagin

Adjunct Professor

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Water News features water-related topics, including SDWRI activities.

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