104 ACE Call for Proposals

The U.S. Army Corps of Engineers (USACE) Institute for Water Resources (IWR) in cooperation with the National Institutes for Water Resources (NIWR) has requested proposals for grants to support applied investigations related to water resources issues in the United States.

Grant proposals may request up to $200,000 in federal funds. No matching funds are required for the awards. The government's obligation under this program is contingent upon the availability of funds. The awards will be made only to the Water Resources Research Institutes authorized by the Water Resources Research Act of 1984 which for South Dakota is the South Dakota Water Resources Institute (SDWRI) at South Dakota State University. All proposals from South Dakota researchers located at accredited colleges or universities in the state must submit their proposal through the SDWRI. The SDWRI will be the official applicant and will subcontract the awards to the proposers. As per requirements of the RFP the SDWRI will not charge fees nor apply indirect cost rate to the award.

For more information about the grant opportunity, visit http://www.sdstate.edu/abe/wri/research/104ace.cfm

Developing BMPs to Minimize the Surface Water Quality Impacts of Winter Manure Spreading

The timing and amount of manure application to land is important in order to manage nutrients and to meet the regulatory requirements and guidelines developed by the South Dakota Department of Environment and Natural Resources and the Natural Resources Conservation Service as outlined in e.g. the conservation practice standard 590 on nutrient management and water pollution control permits for concentrated animal feeding operations.

What are the best management practices relating to timing and placement for solid manure application? That is the research question Nathan Brandenburg, Graduate Research Assistant at the SD Water Resources Institute has set out to find. Spreading manure on frozen ground is a management option for livestock producers since winter spreading of manure reduces the quantity of winter storage needed, provides more time for application on cropland and reduces soil compaction by heavy equipment. Because of reduced infiltration capacity of the soil when frozen and manure being applied on snow, there is a risk of manure including fecal coliform bacteria, nutrients and suspended particles being carried off the field with water runoff. Fecal coliform bacteria, nutrients, and sediment have been identified as sources of water resource impairment in many South Dakota watersheds. More information and preliminary results are available at http://www.sdstate.edu/abe/wri/research-projects/winter-manure-spreading.cfm.
“Water is Life”

Providing water education to area 4th graders in the form of activities, presentation, and exhibits …in its 20th Year!

Fostering Awareness:

The Big Sioux Water Festival fosters awareness of our most valuable resource: WATER. It is an opportunity for fourth grade students to learn more about water issues and how they can do their part in protecting the environment. The festival provides hands-on, interactive activities to demonstrate how water impacts our lives and the importance of clean water for all living things now and into the future.

The Big Sioux Water Festival is a national model festival.

It’s the largest one-day festival in the state.

This year 1,033 4th grade students and 135 parents and teachers are attending from 30 area schools.

There are more than 40 presenters from South Dakota, Minnesota, Nebraska, and North Dakota.

Over 250 people from surrounding communities volunteer for this event.

This event is made possible by donations from many companies, organizations, and groups supporting this program.

Supported by national, state, & local entities.

Interested in volunteering please contact Trista at: trista.koropatnicki@sdsstate.edu

bigsiouxwaterfestival.org
Lake & Stream Ecology & Water Quality Workshops

Presented by the Northeast Glacial Lakes Watershed Improvement and Protection Project, South Dakota Discovery Center and Aquarium, and the Water Resources Institute.

June 6-8, 2012
Outlaw Ranch
Custer, SD

July 18-20, 2012
NeSoDak Bible Camp
Enemy Swim Lake, SD

What will you learn!
- Aquatic Invertebrate Collecting Techniques and Identification
- Basic Limnology Principles
- Water Quality Testing Procedures
- How to Interpret Water Quality Data
- Environmental Curriculum and Activities for Classroom use
- Earn Graduate and Continuing Education Unit Credit

Workshop materials, meals, and lodging are provided at no cost to the participant. Cost for Continuing Education Credits (CEU) $5 or one Graduate Credit at $40.

For further information, pictures of past workshops, and pre-registration information (to be posted early spring 2012) visit [www.neglwatersheds.org](http://www.neglwatersheds.org)

Funding for the workshop is made possible by a grant from the South Dakota Department of Environment and Natural Resources “319 Information and Education Project” grant sponsored by the South Dakota Discovery Center and Aquarium.
South Dakota State Student Receives USCID Scholarship

Nathan A. Brandenburg, a master’s degree student at South Dakota State University, is the recipient of the 2011 USCID/Summers Engineering Scholarship. The Scholarship was presented at the USCID awards dinner during the San Diego Conference. The award included $1,000, registration for the Conference, and travel and hotel expenses.

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http://www.sdstate.edu/abe/wri/newsletters/index.cfm

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