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In late June Dave German and I traveled north to Aberdeen Sportfishing Day held at the Brown County Fairgrounds.

The event started bright and early and lasted until noon. Sportfishing Day showcased exhibits on angling skills, tackle crafting, fish cleaning, fishing ethics and aquatic ecology.

Before the event we collected scuds, mayflies, caddisflies, crayfish and other aquatic “critters” for the 60 or so kids to get their hands on. The 8-16 year olds sorted through several tanks, finding various species of aquatics.

After identifying what they found the kids were then able to decipher the health of the water body in which the species were collected. Microscopes were set up for the kids to look at algae, zooplankton and smaller invertebrates.

I was very impressed to see such enthusiasm and willingness to dive in and collect things. They were not afraid to get dirty looking for the elusive invertebrates either.

Some of the children were repeat visitors from previous years and claimed this was their favorite exhibit. They all cooperated very well making my job easier and a lot of fun.

The event was topped of with hotdogs, great prizes and a fishing tournament at a nearby lake.
Students enjoy NPS Pollution model
By Ross Vander Vorste, SDSU

In May I was given the opportunity to demonstrate a Non-point Source Pollution model at the Big Sioux Water Festival. The model displayed a topographical layout of a typical landscape found in the Midwest. It included farms, houses, factories and even a golf course. Fertilizers, pesticides and sludge were represented by cool-aid and chocolate syrup. Once the contaminates were applied to the landscape a rainfall event was simulated using a spray bottle. Runoff from the event could be seen flowing down creeks and roads polluting a once pristine lake located at the bottom of the model. Kids enjoyed seeing the different colors of cool-aid run into the lake and they began to understand that lakes can be affected by things done miles away.

Ross demonstrates the Non-Point Source model for 4th grade students at the Big Sioux Water Festival in Brookings, SD.

Missouri Reservoirs Add Water (7/17/05)

Water Management Monthly News Release (7/7/05)

Ranchers to get drought aid for livestock water (7/14/05)

Corps gets OK to build water-intake system (8/13/05)

Mo. governor wants more water released (8/13/05)
http://www.rapidcityjournal.com/articles/2005/08/14/news/state/top/state01.txt

Conservation groups lose appeal of Missouri River ruling (8/16/05)

Reservoir levels hold steady (8/21/05)
**Upcoming Meetings**

**SD Department of Environment and Natural Resources (SD DENR)**

9/22-23/05: Board of Water and Natural Resources  
Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol Avenue, Pierre, SD. For more information, contact Elyane Lande, DENR, at 773-4216

10/5-6/05: Water Management Board Meeting  
Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol Ave, Pierre SD. For more information, contact Eric Gronlund, DENR, at 773-3352

10/19-20/05: Board of Minerals and Environment Meeting  
Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol Avenue, Pierre. For more information, contact Jenny Hegg, DENR, at 773-3153

10/28/05: South Dakota State Emergency Response Commission Meeting  
via the Digital Dakota Network. For more information, contact Lee Ann Smith, DENR, at 773-3296

**Contact Information:**

SD DENR, Joe Foss Building, 523 East Capitol, Pierre, SD 57501  
Phone: 605-773-3151  
Web: [http://www.state.sd.us/denr/denr.html](http://www.state.sd.us/denr/denr.html)

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**Missouri River Basin Association (MRBA)**

9/21-22/05: MRBA Director’s Meeting  
Bismarck, ND

**Contact Information:**

MRBA  
Phone: 1-605-343-6054  
Email: mnisose@qwest.net  
P.O. Box 2890  
Rapid City, SD 57709-2890  

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**SD DENR 319**

**Funding Announcements**

**319 Nonpoint Source Pollution (NPS) Project Grant Applications**

SD Department of Environment and Natural Resources (SD DENR) is accepting applications for Clean Water Act Section 319 grants. The 319 grant funds may be used for watershed implementation and assessment/ planning, ground water, and information and education projects that control or prevent NPS pollution. Project applications in both paper and electronic format plus letters of commitment from project partners who are contributing cash, in-kind funds or technical assistance for the project must be submitted to DENR on or before **October 3, 2005**.

Send copies to:  
**Dr. Dennis C. Clarke**  
**South Dakota Department of Environment and Natural Resources**  
**Joe Foss Building**  
**523 East Capitol**  
**Pierre, South Dakota 57501-3182**  
**Dennis.Clarke@state.sd.us**

Application guidelines may be obtained by visiting:  
[http://www.state.sd.us/denr/DFTA/WatershedProtection/319.htm](http://www.state.sd.us/denr/DFTA/WatershedProtection/319.htm)

The applications will be considered by the South Dakota Nonpoint Source Task Force November 8, 2005. The Task Force’s recommendations will be considered by the DENR Board of Water and Natural Resources at the Board’s January 5, 2006 meeting.

For more information or assistance preparing project proposals, contact Dr. Dennis C. Clarke at (605) 773-4254.

**Information and Education Targeted Activities**

The South Dakota Discovery and Aquarium announces that funding for specific outreach activities addressing non-point source pollution and watershed ecology is now available. Water Festivals, teacher/facilitator workshops (must use standards compliant water education curriculums) and adult outreach are the only allowable activities under this grant.

For application guidelines, visit:  
or contact:  
**Anne Lewis • 805 W Sioux Ave • Pierre, SD 57501**  
605-224-8295 • 605-224-2865 (fax)  
annelewis@sd-discovery.com
An Experience in Cambodia

By Darrell W. DeBoer, Professor Emeritus
South Dakota State University Agricultural and Biosystems Engineering

As a member of an Engineering Ministries International team, an engineering and architectural volunteer organi-

zation, I had the opportunity to visit Cambodia in February 2005. Cambodia is a third world country where many people only earn one dollar per day and was a victim of a rogue Pol Pot regime where most of its educated citizens were tortured and/or killed about 30 years ago. Our team of six accepted the responsibility of assessing the possi-

bility of using an aban-

doned US military apartment building near Phnom Phen, the capitol, for conversion to a hospital.
My responsibilities were to perform soil percolation tests on hospital property soils and to design a septic system waste disposal system for the hospital.

In addition, we reviewed water supply options including polluted ground water being used by those in adjoining neighborhoods and a distant city water supply line. Hos-

pital water demand would increase the city demand by about one-third which indicates the limited infrastructure available in the city. We also did our best to derive a cost estimate for the building conversion project and decided that it is about as costly to convert the structure to a hos-

pital use as to move to a new location and start from bare land where the new facilities would be more culturally acceptable to the Cambodians.

One day was spent doing the tourist thing by visiting the famous 10th century Angkor Wat temple ruins. The temples were originally constructed by Hindu believers from India but today are the domain of Buddhist faithful.
Future Features

If you have a project that you think Water News readers would be interested in, please contact Jennifer Pickard at Jennifer.Pickard@sdstate.edu or via the link on SD WRI’s web site at http://wri.sdstate.edu.
Your suggestions and comments are welcome!

Congratulations!

WRI would like to congratulate Ph. D. candidate Angela Guidry on her recent employment at East Dakota Water Development District.
She has been hired to oversee the Central Big Sioux River Implementation Project. Angela is working towards completion of a doctoral dissertation at South Dakota State University where she has been studying the fate and transport of phosphorus in soils.

Her dissertation project, “Evaluation of Phosphorus Loss of Dominate Agricultural Soils in Eastern South Dakota Using Rainfall Simulations and Laboratory Studies” was supported in part through the United States Geological Survey (USGS) 104b grant program.

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"Sometimes we forget that the water cycle and the life cycle are one."
-Jacques Cousteau