

2006 Request for Proposals for
Watershed Information and Education Projects

Spring Request for Proposals

Deadline: March 1, 2006

Attachment One

Project Summary Sheet

Project Title Name:

Conducting a Basic Limnology Workshop to Train Speakers for Improved Lake Water Quality Education

Contact Information

Project Coordinator: *David German*

Address: *SAE 211 Box 2120 Brookings, SD 57007*

Phone: *(605) 688-5611*

Email: *David.German@sdstate.edu*

Summarization of Goals:

The purpose of this proposal is to teach and train 30 adults about basic limnology concepts and provide tools for them to speak to small groups about lake water quality.

Project Description:

The project will involve preparing a power-point presentation and associated handouts about basic limnology concepts. The presentation will be designed so that after attending the class, the attendees will be able to share what they have learned with a secondary audience. The primary target audience will attend a two-day class to learn about basic limnology. The class will include:

- Limnology concepts*
- Ecosystem concepts—algae, invertebrates, plants*
- Practice public speaking to each other*
- Socialize and exchange ideas*
- Use of lake sampling water quality equipment*

The class will be advertised through the Lakes and Streams Association newsletter. Individuals will be responsible for transportation to and from the class. This proposal includes funding to provide for materials, and facilities at NeSoDak Camp on Enemy Swim Lake.

One LCD projector will be made available for check-out by class attendees to make presentations to their local lake associations. After the class, the projector will be located at the Water Resources Institute in Brookings, SD or at the Natural Resources Conservation Service in Webster, SD.

Start & End Dates: *May 15, 2006 through July 31, 2006*

Amount Requested: *\$4,312*

Match: *\$2,935*

Total Project Cost: *\$7,247*

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1. Project Summary Sheet.

Please see attached.

2. Who is your direct audience? How many do you expect to reach? Is there a secondary audience?

The primary audience for this project will be adults within the northeast lakes regional area of South Dakota and could include lake property owners, landowners in the watershed, extension educators, and members of the general public interested in lake and watershed issues. The secondary audience for this project will be lake association members, individual landowners, and others that the primary audience would have contact with in small-group and individual meetings.

3. A. Which priority topic does your project address ?

The priority topic that will be covered through this proposed project will be water quality, primarily focused on lake water quality and how watershed processes affect lake water quality.

B. What are you going to do to address this priority?

We will teach 30 adults about basic limnological concepts and provide them with the tools necessary to share the learned concepts with others in their community. A major focus will be on how human activities in the watershed affect water quality in lakes.

C. Is this a one-time project or is there potential for it to continue after the funding period?

The individuals trained through this project will have the knowledge and resources to return to their local communities and present the information learned through this 2-day limnology course. Water Resources Institute staff will manage the projection equipment and make it available to attendees for presentations. The equipment will also be available for use by other water quality educational projects coordinated by Anne Lewis at the South Dakota Discovery Center. The class will be a one-time event although a modified version of the course will be offered to Natural Resource Conservation Service staff and extension educators. The arrangements have not been made at this time. The materials produced for the course will be made available through the Water Resources Institute's web site.

4. What will the audience learn or become aware of as a result of this project?

The audience will learn basic limnological concepts and how watershed processes affect lake water quality. Human influences on water quality will be stressed. They will also learn presentation skills and activities to inform others.

5. How will you measure your audience's learning or awareness?

We will evaluate the effectiveness of the limnology course through a pre- and post-survey method. The target audience will receive a survey before any water quality/limnologic theories are discussed to ascertain what is already known. At the end of the course, another survey will be given to determine changes in knowledge, attitudes, and actions as a result of material presented.

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6. **Who is the project sponsor and who are the partners?**

The Water Resources Institute is the project sponsor. Partners include NeSoDak Camp and Day Conservation District representative Dennis Skadsen.

The Water Resources Institute will develop all the materials needed and presented during the course and serve as the primary instructor through the expertise of Limnologist, David German.

Dennis Skadsen from Day Conservation District will be available to teach portions of the class including "The Lake Game," water chemistry, and dissolved oxygen demonstrations. The environmental education center at NeSoDak Camp will be used to host the class, as it is located in the northeast lakes region, is designed for group activities, and has excellent access to a mesotrophic lake for hands-on activities.

7. **What are your milestones?**

<i>Conducting a Basic Limnology Workshop to Train Speakers for Improved Lake Water Quality Education</i>				
Activity	April	May	June	July
<i>Prepare workbook, handouts, CD Presentation</i>	X	X		
<i>Teach 2-day limnology course at NeSoDak Camp</i>			X	
<i>Prepare final report</i>				X

8. **Budget**

Please see attached.

9. **Letters of Commitment**

Please see attached.

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*Applicant Signature & Date: John J. Ruffolo 3/2/06

Applicant Title: Associate Dean, Research & Sponsored Programs and Graduate School

**Signatory must be a representative who is able to commit the organization to the project*

Category	319 I &E	Matching Sources (include a column for each source)	Total
Salary & wages	\$490.00	\$2,052	\$2,542
Permanent Equipment *	\$1,303	\$0	\$1,303
Supplies & Materials	\$203	\$0	\$203
Contractual Services	\$1,350	\$0	\$1,350
Travel	\$76	\$0	\$76
Other Direct Costs	\$0	\$0	\$0
Indirect Costs **	\$890	\$883	\$1,773
Total Project Costs	\$4,312	\$2,935	\$7,247

Attachment Two Budget Justification

Salary & Wages

\$480 requested from 319 I&E to support undergraduate student(s) in the assembly of workshop materials and setup/tear down activities at the class site. Fringe benefits for the undergrad student(s) are calculated at 2% of proposed salary.

Match is provided to cover David German's salary for 8 days to prepare and present the workshop. Fringe benefits are calculated at 15% of yearly salary plus \$5,250 and pro-rated to percent time committed to the project.

Permanent Equipment

In order to facilitate the presentation at NeSoDak, an LCD projector and travel case would be purchased to use during the workshop and then be made available for check-out by workshop participants for their presentations when they speak to groups about lake water quality.

Supplies and Materials

Workshop participants receive a PowerPoint presentation (on CD) to assist them when they return to their own communities to answer questions about local water quality. CDs will be purchased to make copies of the Power Point presentation for individuals to utilize when they speak to groups about lake water quality.

Publication Materials

Each workshop participant will receive a spiral bound, informative, workbook to help reinforce class teaching and demonstrations. \$183.00

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Services and Consultants

Services comprise rental of NeSoDak facilities for two days/one night based on 30 people @ \$45 per person.

Travel

Travel covers the use of a minivan for David German to transport microscopes, specimen collection equipment, and other workshop materials on the 200-mile round trip from Brookings, SD to NeSoDak Camp at \$0.38 per mile.

Indirect Costs (federal)

Indirect cost is calculated at 26% (South Dakota Board of Regents rate for the state funds, which is 60% of federal share).

Indirect Costs (match)

Indirect cost is calculated at 43%, which is mandatory for all SDSU-sponsored projects. Also included in indirect costs match is the use of all South Dakota State University facilities and secretarial support to ensure success of the proposal.