Federal Interagency Sedimentation Project

FY2014 Call for Proposals

Submission Deadline: Tuesday, Oct. 15, 2013

Submit proposals to: Mark N. Landers (landers@usgs.gov)

This is an announcement (with proposal format guide) for project proposals consistent with the mission and current focus areas of the Federal Interagency Sedimentation Project (FISP).

FISP Composition and Leadership: The FISP (http://water.usgs.gov/fisp/) is an independent, interagency project overseen and supported by a Technical Committee consisting of representatives from the U.S. Geological Survey, U.S. Bureau of Reclamation, the Agricultural Research Service, U.S. Bureau of Land Management, U.S. Forest Service, U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency. The FISP works with the Subcommittee on Sedimentation (http://acwi.gov/sos/) to unify the research and development activities of Federal agencies involved in fluvial-sediment monitoring and investigations. Mark Landers (landers@usgs.gov) is the FISP Chief.

FISP Mission: The continuing mission of FISP is to provide leadership in the development of standardized, calibrated equipment and methods to allow consistent and accurate quantification of sediment characteristics and transport in surface waters. FISP activities focus on the measurement, computation, and analysis of suspended sediment (SSC), bedload, bed material, bed topography, sorbed constituents, and other sedimentary characteristics using physical samplers and surrogate technologies.

Request for Proposals: FISP interacts with other organizations including federal agencies, academia and private industry to promote research and development and improved quality and cost effectiveness of sediment-based data. To the extent that funds are available, FISP solicits proposals and seeks to leverage funds and resources to cooperatively achieve these goals. Preference will be given to proposals that share development costs, directly or indirectly.

In general, FISP-supported research studies are formulated to (1) identify, develop, or test emerging sediment surrogate technologies or methodologies, or (2) provide improvements to physical samplers. Submission of project proposals relevant to operational monitoring programs is encouraged. Results from FISP projects may be in reports, papers, and/or presentations as specified in the successful proposal.

The FISP research focus areas for 2014 for which proposals are specifically encouraged are:

- Evaluation and verification of accuracy of FISP physical sediment samplers (particularly bag-type) through physical testing or CFD modeling for a range of sediment size/SSC/ fluid temperature conditions;
- Acoustic surrogates for quantifying SSC and particle-size distribution (PSD) including:
    - Data sets and demonstration of multi-frequency acoustics related to SSC and PSD,
    - Acoustic instrument development to improve accuracy and reduce costs, and
    - Demonstration of real-time, continuous surrogate-estimated SSC and PSD to highly relevant applications
- Temporal and spatial variation of SSC and grain-size distributions, and
- Surrogate bedload-transport monitoring.

FISP projects are typically funded for 1 year for less than $30,000. Written support from one of the participating Federal agencies may be influential in the proposal-selection process. Proposals that appear to benefit only one organization or entity have not fared well in previous years.

Proposals should be submitted directly to the FISP Chief (landers@usgs.gov) as an attachment in the requested format (see page 2 of this file) on or before Tuesday, October 15, 2013. The proposals will be evaluated by the FISP Technical Committee at the annual Fall Meeting. Funding of successful proposals is contingent in part on the federal budgetary process. Thanks for your time and consideration on behalf of the Federal Interagency Sedimentation Project.

Mark Landers, Ph.D., P.E., D.WRE
Chief, Federal Interagency Sedimentation Project
1770 Corporate Drive, Suite 500
Norcross, GA 30093
landers@usgs.gov
water.usgs.gov/fisp

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The form below is complementary to page 1, "Federal Interagency Sedimentation Project FY2014 Call for Proposals," and provides the preferred format for proposals to be submitted by Tuesday, October 15, 2013, to FISP Chief Mark Landers. History has shown that only well-written, organized and complete proposals that rank sufficiently high by the Technical Committee get funded. Within that context, brevity is appreciated.

The length of the proposal should be no more than 4 pages, with (more or less) one page for each item below. Supplemental materials that would help the committee evaluate the merit of proposals (scientific papers, appropriate websites, etc.) may be appended as necessary. Direct any questions to the FISP Chief via email, landers@usgs.gov .

Reminder, proposals due on or before Tuesday, Oct. 15, 2013, to Mark N. Landers, FISP Chief (landers@usgs.gov).

FEDERAL INTERAGENCY SEDIMENTATION PROJECT
PROPOSAL FORM

Proposal Title:

Project Chief:

Project Chief Location:

Proposed Start Date: Proposed End Date:

1-Year Funding Request:

1. **Relation to FISP goals –** The relation of submitted proposals to FISP research focus areas for the current year will be the primary criterion in selecting proposals for funding. Be careful to explain how your proposed work is related to these objectives, and, if relevant, how and when it might benefit operational monitoring programs.

2. **Scientific Merit and Relevance –** What is the purpose of your proposed work? Please make clear what the primary technical/scientific contribution of your work will be toward the improvement of sediment measurement and/or analysis technology. Please include a brief statement that explains clearly how your and/or any cooperator's experience and background is related to the proposed work. If there is substantial present or previous work related to your proposal, please make clear why the proposed work adds value to existing work. If your proposed work is an advance beyond current approaches, make sure you explain why the proposed work is relevant and important.

3**. Methodology –** Please describe the proposed approach and methods. Specifically identify which components of the study approach will be funded by the FISP.

4. **Timeline, budget (Feasibility), and partners -** What is the proposed duration of the project? Single year? Multiple years? Please provide a timeline showing major steps that will be taken by the project towards completion, the time allotted for each, and the expected product (outcome). Please provide a budget, including labor, travel, contracts, supplies, equipment purchases, use of facilities, etc. Also indicate any cost share contributions you bring to the project either in kind or direct contributions (e.g., expertise, facilities, funding, partners). If the total dollars being requested exceeds $30,000, break down the tasks into phases, not to exceed $25,000, that can be funded separately.