

Subcommittee on Sedimentation
June 25, 2014
Teleconference/WebEx Meeting
Minutes

Subcommittee on Sedimentation (SOS) Chair Amanda Cox called the meeting to order at 1:01 p.m. EDT. The minutes were prepared by Amanda Cox. Present were:

- Amanda Cox, Chair, Assistant Professor, Missouri Water Resources Research Institute (MWRRI), Saint Louis University, St. Louis, MO
- Tim Randle, Vice-Chair, Manager of the Sedimentation and River Hydraulics Group, Bureau of Reclamation (Reclamation), Lakewood, CO
- Jerry Bernard, retired NRCS, SEDHYD Technical Program Coordinator, Stafford, VA
- Jenifer Bracewell, via webex, USGS, RESSED FilemakerPro Database Programming Team Member, Reston, VA
- Deborah Cooper, Research Hydraulic Engineer, Engineer Research and Development Center, U.S. Army Corps of Engineers (USACE), Vicksburg, MS
- Jonathan Fripp, Hydraulic Engineer, National Design, Construction and Soil Mechanics Center, NRCS, Fort Worth, TX
- Marie Marshall Garsjo, retired geologist, Natural Resources Conservation Service (NRCS), Fort Worth, TX; SEDHYD FISC Technical Program Chair
- John R. Gray, Scientist Emeritus, Office of Surface Water (OSW), USGS, Reston, VA
- Meg Jonas, Research Hydraulic Engineer, U.S. Army Corps of Engineers (USACE), Alexandria, VA
- Mark Landers, Federal Interagency Sedimentation Project Chief and OSW, USGS, Atlanta, GA
- Kevin Laurent, USGS RESSED FilemakerPro Project Database Management System Expert, USGS, Patuxent, MD
- Paula Makar, Civil Engineer (Hydraulics), Sedimentation and River Hydraulics Group, Reclamation, Lakewood, CO
- Matt Römken, Director National Sedimentation Lab, and Researcher in erosion processes, Agricultural Research Center (ARS), Oxford MS
- Joseph Schubauer-Berigan, Research Ecologist and Chief, Environmental Stressors Management Branch, USEPA, Office of Research and Development, National Risk Management Research Laboratory, Cincinnati, OH
- David Wegner, Senior Democratic Staff, Subcommittee on Water Resources and Environment, Committee on Transportation and Infrastructure

Minutes from April 2014 SOS Meeting

Cox

Draft minutes from the April 3, 2014 meeting were sent to the committee for review on June 23. Amanda will send an email with a deadline for providing comments. After receiving comments, the minutes will be revised and sent for review and approval a second time. If no comments are received, the minutes will be approved.

Programmatic Information:

- **SOS REPRESENTATION:** After the June 25 SOS meeting, Mark Landers (currently Alternate Member) will assume the position of USGS representative. The USGS Office of Surface Water (OSW) will decide if Gray will become the alternate, or just dry up and blow away.
- **REPLACING GRAY:** USGS OSW intends to advertise John Gray's "National Sedimentologist" position this summer. Presumably the hire will take over leadership of the SOS-sponsored, USGS-funded (WaterSMART program)RESSED project. Gray intends to remain associated with the RESSED effort in an advisory (read, 'fly-in-the-ointment') capacity.
- **REVIEW:** The first WaterSMART program review of the RESSED project is to be scheduled to take place before FY2015.
- **PAPER:** An abstract for a RESSED paper for the SEDHYD (10th Federal Interagency Sedimentation) Conference has been re-submitted. Intent is to write a "follow-up" paper to that published in the 9FISC proceedings. Seek confirmation of those who would like to co-author the paper...and what co-authors might contribute to the paper. This paper needs to be written before August expires due to other writing commitments and the USGS review/approval process. At a minimum, I would hope that the following might be included:
 - A description of explore functionality
 - A series of plots that might 'whet the interest' of our readers
 - A table with statistics from the DB...number of reservoirs, number of surveys, range in reservoir size, some info on capacity losses, whatever can be touched on somewhat lightly the paper shouldn't exceed ~10 pages

Status of USACE Data Merge:

- **DATA ISSUES:** 9 of the 16 submitted districts' data had significant data issues requiring further examination and clarification by district staff in order to proceed.
 - 8 of those have supplied the needed information.
 - 1 of them has not sufficiently clarified lingering duplicate (triplicate) reservoir record issues - seeking further clarification via Deborah Cooper.
- **OTHERWISE...**15 districts' data has been prepared and is ready to be merged with the master file data.
 - Expect to be completed by the week of July 4, 2014.
- **BETA-TEST OF WEB-BASED RESSED:** The remaining districts who intend to submit data (~15) have been instructed to await the on-line input interface.

- In the meantime, they can use their run-time files to organize their data.

Status of Data Release:

- EXPLORER: New version of RESSED Data Explorer in progress.
 - New map layers for lakes, rivers, parks, urban areas.
 - New map projection shows Alaska, Puerto Rico, and Hawaii.
 - Ability to generate Form 34/1787.
 - Release to coincide with new data release.

Status of RESSED Online Data Call Application:

- DEVELOPMENT SERVER: Web server for RESSED on-line development created.
- INTERFACE: Interface between web server and database server has been established.
- LINKAGES: Several small applications have been built to test access to database server from the web pages.
- DEFINITION OF METHODOLOGY: Methodology of operation of the data call application has been defined.
- FALL PREVIEW: Development in progress towards a preview application by end of October.

Reservoir Sustainability

Randle

SOS member organizations were invited to nominate experts to serve on the voluntary National Reservoir Sedimentation Team.

Tim Randle proposed that SOS sponsor a face-to-face meeting of the National Reservoir Sedimentation Team in a workshop setting for the following purposes:

- Develop a short course on reservoir sedimentation and sustainability for the SEDHYD conference.
- Develop a list of frequently asked questions and answers regarding reservoir sedimentation and sustainability to be posted on the SOS website.

SOS was asked for approval to pay the workshop meeting room and pay the travel costs of non-federal team members. The Subcommittee liked the idea of the workshop. Although the Subcommittee was not opposed to paying for the meeting room and travel costs of non-federal team members, they first wanted to first make sure from Doug Glysson that sufficient funds were available in the Federal Interagency Sedimentation Conference bank account. Tim Randle agreed to check with Doug Glysson to see if sufficient funds are available and report back to the Subcommittee.

SEDHYD 2015 Planning Overview

Makar/ Bernard

The conference organization chart has been finalized. Victor Hom will head up Field trips, Mark Strudley is in charge of Proceedings, and Jennifer Bountry will organize Posters/Demos.

Doug contacted Wendy Norton in early May; she thought DOI approval status was close to going downtown. Victor will check-in with Wendy too.

The Peppermill can supply all AV and computer equipment on our list. They will setup three nearby guest rooms (AV set up, storage, etc.) and there will be registration desks available outside Tuscan ballroom with computer lines for our use. There is free WIFI available throughout the hotel. Committee approved Doug's travel expenses of \$792. GES & Freeman exhibit contractors responded to RFP. Freeman is likely winner because Reno is the warehouse location for their region.

A summary of the technical program is shown in the table below. Jerry Bernard will add request for special sessions to reminder emails. Proceedings will be all electronic and will likely have download location for abstracts at registration.

Posters	Demos		Oral Papers								
9	2		142								
USGS	USACE	USBR	University	Consultant	NRCS	USFS	EPA	FERC	International	NOAA	USFWS
38	27	23	21	17	16	4	1	1	1	1	1

Please send agency field trip suggestions to Victor. Potential field trip locations include:

- Truckee river watershed (COE – GSSHA model)
- Tour NWS forecast office
- UAV and surveying website - Civil Defense

Registration will be contracted to Active. Conference approval is needed to open registration. Assistants will be needed from all agencies - non-technical people will not be required to register, but assistants attending conference sessions will be required to register.

Student Program - Amanda

The rules/requirements for the student program were posted on website and competition winner will be based solely on the paper. Participants in the student program are required to register. Each student is only eligible to receive one award. Students enrolled in at least 9 credit hours for either the Spring 2014, Fall 2014, or Spring 2015 semesters are eligible to participate in the competition. For the student competition awards, the first-place prize is \$1000 and the second-place prize is \$750, with a total of \$3500 total for prizes. A judging committee will be formed from volunteers. Please contact Amanda if you would like to volunteer to be a judge.

We will need approximately 20 audio/visual (AV) assistants for the conference. An amount of \$6500 has been guaranteed to support funding for student travel (students must provide information to Amanda), where students will be expected to serve as an AV assistant. Not everyone got the same amount of travel assistance for the last conference. It was dependent upon their need and how much they

requested. Amanda will check with student chapters at UNR/ DRI to help identify AV assistants for the conference.

Short courses

PDU will be offered for short courses. The following is a list of potential courses – approval at next meeting:

- Yong Lai - SRH2D
- Gary Brunner - HECRAS
- Claudia will forward other classes

Jerry B will add an invitation to submit short course ideas to abstract reminders. Doug will provide information on hotel costs.

Federal Interagency Sedimentation Project

Landers

The Technical Committee that governs the FISP met on May 19th (virtual meeting). During this Spring meeting the TC typically reviews objectives, budgets, and progress within the FISP and in FISP-Sponsored research projects. Currently the following federal agencies direct the FISP: Bureau of Reclamation; Bureau of Land Management, USDA Agricultural Research Service, USACE, USGS, and USEPA (non-funding). At the Spring meeting the TC heard presentations on progress and plans for the 2014 (and one remaining 2013 research program. Important progress is represented in several of these proposals and a few of the highlights were presented to SOS. These FISP-funded proposals include:

Proposal Title	Submitting Organization	Proposal Year
Computational Fluid Dynamics Analysis of Suspended Sediment Sampler Efficiency	USGS KY WSC/OSW	2014
Development of a Portable Passive-Acoustic Bedload Monitoring Surrogate for Non-Experts	NCPA, Ole Miss, Oxford, MS	2014
Using close-range remotely-sensed multispectral imagery to quantify the effects of particle size distribution on turbidity	USGS, Cascades Volcano Obs	2014
Estimating the size of the measurement volume for passive acoustic monitoring of Self-Generated Noise (SGN)	ARS Oxford, MS	2014
Laboratory and Field Measurement of Bed Load using Self-Generated-Noise (SGN)	USDA ARS	2013

In house FISP research is focused largely on operational performance of bag samplers, and on acoustic surrogates of suspended sediment concentration. A new fact sheet on sediment-acoustics has been prepared and is available at: <http://pubs.usgs.gov/fs/2014/3038/>.

Prospectus 2007 – 2012 update

Jonas

Tim made a motion to form a task committee for updating the Prospectus and reporting back to the SOS. Meg seconded the motion and it was unanimously approved. Meg volunteered to lead the committee and Tim, Amanda, and Mark volunteered to participate on the committee. Meg will setup a meeting for the task committee to start the task. Amanda will review emails from Marie to identify other people interested in participating the task committee.

National Stream Morphology Data Exchange Proposals

Cox

Amanda provided an update on the status of the research proposals as Matt Collins could not attend the meeting. The NASA proposal submitted in July 2013 is still under review. The Terrestrial Hydrology Program Manager indicated that a decision should be made in June. Amanda will follow-up with the Program Manager at the end of June.

Since the previous meeting, there has been no additional discussion of responding to the proposal solicitation from the USGS Powell Center.

New Business

Cox

Meg Jonas volunteered to represent the SOS at the ACWI annual meeting scheduled to be held August 19-20 at USGS Headquarters in Reston, Virginia.

Set date and host for fall meeting to be held in Washington D.C.

Cox

Amanda will setup a Doodle poll online to identify a date during the week of November 3. She will also contact Matt Collins from NOAA to see if they have interest in hosting the fall meeting. If they are not available, Meg Jonas indicated that the USACE can host the meeting at their Headquarter located in Washington D.C.

The meeting was adjourned at 3:04 EDT