

Subcommittee on Sedimentation Teleconference Meeting Minutes

January 24, 2018

2:00 to 4:00 PM, EST; 1:00 to 3:00 PM, CST
12:00 to 2:00 PM, MST; 11:00 AM to 1:00, PM, PST

Roll Call

Subcommittee on Sedimentation (SOS) Chair, Eddy Langendoen, called the meeting to order and began with a roll call of member organizations.

Organization	Representatives	Mailing Address
American Society of Civil Engineers	Jeff Bradley	American Society of Civil Engineers; West Consultants, Inc., 2601 25th St. SE Suite 450, Salem, OR 97302
Colorado Water Resources Research Institute	Absent	Colorado Water Resources Research Institute, Colorado State University; 1372 Campus Delivery, Fort Collins, Colorado 80523-1372
Consortium of Universities for the Advancement of Hydrologic Sciences, Inc.	Marian Muste	The Consortium of Universities for the Advancement of Hydrologic Science, Inc., Executive Director, CUAHSI Cambridge, MA
Cooperative Institute for Research in Environmental Sciences	Toby Minear	Cooperative Institute for Research in Environmental Sciences, 216 UCB University of Colorado Boulder, CO 80309
DOI - Bureau of Land Management	Doug Curtis	Water Resources Specialist Bureau of Land Management Environmental Quality and Protection 20 M St., SE, Room 5282 Washington, DC 20003
	Bob Boyd	Bureau of Land Management Denver Federal Center, Building 50 Denver CO 80225-0047
DOI - Bureau of Reclamation	Tim Randle	Bureau of Reclamation Denver Federal Center, Building 67 PO Box 25007, 86-68240
	Caroline Ubing	Denver CO 80225
	Jennifer Bountry	Denver CO 80225
DOI - National Park Service	Absent	National Park Service, 1201 Oakridge Drive Suite 250, Fort Collins CO 80526
DOI - U.S. Geological Survey	Molly Wood	U.S. Geological Survey, Office of Surface Water, 230 Collins Rd, Boise, ID 83702
	Tim Straub	U.S. Geological Survey, 405 N. Goodwin Avenue Urbana IL 61801
DOT - Federal Highway Administration	Absent	Federal Highway Administration, Central Federal Lands Division, 12300 West Dakota Ave., Suite 340, Lakewood, CO 80228

Federal Energy Regulatory Commission	Absent	Federal Energy Regulatory Commission, Division of Hydropower Licensing, 888 First St. NE, Washington, D.C., 20426
Missouri Water Resources Research Center	Amanda Cox	Missouri Water Resources Research Center, Saint Louis University, 3450 Lindell Blvd, Saint Louis, Missouri 83103
NOAA - National Marine Fisheries Service	Matt Collins	NOAA Fisheries, 55 Great Republic Drive Gloucester, MA 01930-2276
Tennessee Valley Authority	Absent	Tennessee Valley Authority, Dam Safety Governance & Oversight, WT 10C-K, 400 W. Summit Hill Dr., Knoxville, TN 37902
U.S. Army Corps of Engineers	John I. Remus, II	U.S. Army Corps of Engineers - Omaha District, 1616 Capitol Avenue, Suite 9000, Omaha, Nebraska 68102
	Paul M. Boyd	
	Sean Smith	U.S. Army Corps of Engineers, Headquarters (CECW-CE) 441 G Street, NW Washington, DC 20314-1000
U.S. Environmental Protection Agency	Joseph Schubauer-Berigan	Chief, Environmental Stressors Management Branch, U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory, 26 W. Martin Luther King Drive, Cincinnati, OH 45268
USDA - Agricultural Research Service	Eddy Langendoen	Agricultural Research Service; United States Department of Agriculture; Watershed Physical Processes Research Unit; 598 MC ELROY DRIVE Oxford, MS 38655
USDA - Forest Service	Dan Cenderelli	U.S. Forest Service, Fluvial Geomorphologist/Hydrologist, National Stream and Aquatic Ecology Center
USDA - Natural Resource Conservation Service	Jo Johnson	National Resources Conservation Service, NDCSMC, 501 W. Felix St., Fort Worth, TX 76115
	Jon Fripp	National Resources Conservation Service, NDCSMC, 501 W. Felix St., Fort Worth, TX 76115

Sean Smith of the US Army Corps of Engineers (USACE)-Headquarters announced USACE has selected Paul Boyd to replace John Remus, and represent USACE on SOS. Paul has worked directly with a host of Subcommittee members in the past on a host of items directly pertinent to the Subcommittee's scope of duties. SOS welcomed Paul and are looking forward to his contributions.

Jo Johnson kindly agreed to serve as Vice-Chair of SOS for the departing Meg Jonas.

Minutes from the past meeting September 7-8, 2017, were approved and will be posted to the SOS website.

Work Group Reports

SEDHYD 2019 Planning Work Group — Tim Randle

A brief overview of the conference site selection process was presented. The conference will be held June 24-28, 2019 at the Peppermill Resort, Reno.

During September's face-to-face meeting a few SOS members volunteered to assist with the organization of the conference (see below Table). However, various volunteer positions still need to be filled. The planning committee will schedule a meeting to work on this and prepare a call for abstracts.

Volunteer Positions	SEDHYD-2019	SEDHYD-2015
Conference Chair	Jerry Webb	Doug Glysson
Conference Operations Chair	Jennifer Bountry	Paula Makar
Conference Technical Program Chair		Jerry Bernard
Sedimentation Chair	Tim Randle	Tim Randle
Sediment Technical Program Chair	Eddy Langendoen	Marie Marshall Garsjo
Hydrologic Modeling Chair		Jerry Webb
Hydrologic Technical Program Chair		Claudia Hoeft
Registration Coordinator		Darren Nezamfar & Penni Baker
Web site Coordinator		Darren Nezamfar & Penni Baker
Proceedings Coordinator	Bob Boyd	Mark Strudley
Audio-Visual Equipment & Student Assistants Coordinator		Jeff Harris
Exhibits Coordinator		Mark Landers
Short Course Coordinator		Jeffrey B. Bradley
Field Trip Coordinator		Victor Hom
Poster and Model Demonstration Coordinator		Jennifer Bountry
Student Program Coordinator	Amanda Cox	Amanda Cox
Young Professionals Program Coordinator		Rebecca Kallio & Allison Danner

The Water Quality Monitoring Council delayed the National Monitoring Conference (NMC) from 2018 to Spring 2019. To date, SOS purposely organized SEDHYD in different years as NMC to minimize conflicts related to government travel expenses to interagency conferences. The Environmental and Water Resources Institute (EWRI) of ASCE would like to organize a session led by Rollin Hotchkiss, which possibly is related to Reservoir Sediment Management.

Work Group on Reservoir Sedimentation and Sustainability — Tim Randle

The work group prepared a Frequently Asked Questions document, which has been posted on the SOS website. The work group is working on a White Paper, intended for policy makers who can make decisions about reservoir sediment management, and is organizing a Webinar Series hosted by the Cooperative Institute for Research in the Environmental Sciences. The first webinar entitled "Reservoir

sedimentation management: Big deal! Why should we even care about it?” was presented by George Annandale on January 18. Another four webinars will be presented on February 22, March 22, April 26, and May 24 covering sediment management, permitting and economics of sediment management. The webinar series will be recorded and posted on a web site. A position paper was prepared regarding the permitting aspects of reservoir sediment management and was reviewed by the lawyers within USACE. This position paper was presented to the Advisory Committee on Water Information (ACWI) at its annual meeting on January 17-18; it is awaiting ACWI’s approval.

The EWRI and United States Society on Dams (USSD) also have study groups/task committees working on sustainable reservoir sediment management. It was discussed to collaborate with EWRI and USSD in order not to duplicate efforts. ASCE is already a member of the SOS. SOS could extend a membership invitation to the USSD Hydraulics and Hydrology Committee.

[Work Group on Dam Removal Sediment Analysis Guidelines](#) — Jennifer Bountry

Tim Randle and Jennifer Bountry have been working on sediment analysis guidelines for dam removal since their first workshop in 2008. These guidelines have evolved over the years with information gained from experience and from publications on the removal of the Elwha River dams, Condit Dam, and other much smaller dams. An extensive peer-review of the guidelines was completed in 2017, and the guidelines were approved by SOS on January 16, 2018 and posted on the SOS website. The SOS commended Jennifer and Tim on this immense effort.

The work group plans to revisit the guidelines in about 10 years, and to continue hosting sessions on Dam Removal at future SEDHYD conferences.

[Work Group on Environment and Infrastructure](#) — Caroline Ubing

The work group completed a guidance document entitled “Managing Infrastructure in the Stream Environment,” which lays the foundation for managers to understand how to build, maintain, or decommission infrastructure that is more resilient and environment-friendly. It provides a decision tool to inform best practices for approaching riverine infrastructure management. The SOS approved the document in December, 2017, and it has been posted on the SOS website. A manuscript based on the guidance document was submitted to the Journal of the American Water Resources Association.

During discussion on future activities of the work group, Jennifer Bountry proposed to provide guidance on mitigation plans, lessons learned, and best practices to get such plans implemented by agencies. This led to a more general discussion on how to ‘get the message out’ to managers. During its annual meeting in on January 17-18 ACWI had identified this to be an issue for all Subcommittees, and is studying to potentially establish a “Subcommittee on Information Development.”

The impact of climate change on sedimentation processes is not well represented in the National Climate Assessment. The Climate and Sediment work group will prepare a briefing paper on the impact of extreme events and climate change on sediment delivery and geomorphology. An outline for this paper was drafted. The work group has formed teams that are responsible for reviewing historical documentation and projections of climate change for the same regions as used by the National Climate Assessment. The review includes the roll of storm events in landscape affected by droughts and wild fires, which is an important issue in southern California at this time. The work group also provides input to other SOS work groups regarding climate change effects.

Work Group on National Stream Morphology Data Exchange — Eddy Langendoen

During ACWI's Annual Meeting Eddy Langendoen met with Al Rea (USGS, Chair of the Subcommittee on Spatial Water Data [SOSWD]) and Doug Yeskis (USGS, Chair of the Streamflow Information Collaborative [SIC] within the Subcommittee on Hydrology). Both SOSWD and SIC have a need for inland water (that is, rivers) bathymetric information, which should be linked to NHDPlus High Resolution. Amanda Cox met with an NSF program manager who thought that EarthCube would be a possible fit for the National Stream Morphology Data Exchange (NSMDE), though Marian Muste thought that this program is more focused on developing basic elements of the EarthCube environment. Toby Minear informed that the Decadal Survey for Earth Science and Applications from Space of the National Academies of Sciences, Engineering, and Medicine could identify key science priorities and measurements for Earth observations that would help with developing funding programs that are a better fit for the NSMDE. Molly Wood mentioned that a USGS Water Mission Area's focus for the next five years is the development of an erosion tool that also needs an underlying stream geomorphology database.

Federal Interagency Sedimentation Project

The highlights of the FISP December 2017 meeting were reported:

- The FISP website has been updated. It includes, among others, Kristin Bunte's recent work on Pressure Difference Samplers, and the current work on predicting suspended sediment using downlooking acoustic Doppler current profilers. During their April 2017 meeting the FISP committee members collected such data on the Sacramento River.
- Two surrogate bed load monitoring projects have been funded for 2018. ARS (JR Rigby and Daniel Wren) received funding to conduct research on sediment-generated noise. John Gray (USGS, retired) received funding to further analyze data collected during large-scale flume experiments in the Main Channel at the St. Anthony Falls Laboratory involving research and testing of selected conventional and surrogate bedload-monitoring technologies.

Other (New) Business

SOS Website

A small committee was formed during the September, 2017 semi-annual meeting to modernize the SOS website. This committee has not met since. ACWI is in favor of SOS updating its website. We have to make sure the website will also look good on mobile devices. We will inquire with ACWI on the software to use.

SOS Publication Protocol

Questions arose regarding the permissible language on the cover page of publications issued by SOS during the approving of the recent publications by the work group on Infrastructure and Stream Environment and the work group on Dam Removal Guidelines. The final cover page listed the primary authors and their agencies (incl. logos), and the inside cover page listed the member agencies of SOS.

There still exist questions on agency sponsorship for certain type of publications. Receiving clearance could be problematic for certain agencies because of increased scrutiny and oversight. It was proposed to also have a logo for SOS. Members were asked to submit ideas for a logo to Toby Minear, who will then forward the compiled set to Jon Fripp to draft the designs.

Prospectus Update

No progress was made on updating the prospectus and terms of reference. These documents are over 10-years old. Tim Randle, Scott Davis, and Eddy Langendoen will lead this effort.

Next Meeting

The next in-person meeting is scheduled for late March or late April 2018 in Washington, DC. Doug Curtis volunteered to host the meeting at the Bureau of Land Management M street Offices on the banks of the Anacostia River.

Meeting Adjourned