

Reservoir Sediment Management & Analysis for Engineers

June 11-15, 2018

University of Kansas, Lawrence, KS



US Army Corps
of Engineers



Why attend the workshop?

Sedimentation and loss of storage is a chronic problem in reservoirs big and small. Agencies are looking to maintain current benefits and reduce the loss of benefits in the future. To preserve these benefits, a plan for reservoir sustainability must be developed through studies and analysis. Reservoir sedimentation analysis is becoming a key component in many O&M, environmental, hydropower, and flood risk reduction studies. USACE engineers will demonstrate how to analyze reservoir sedimentation problems. The instructors will also explain how to select and assess solutions using tools and technologies that represent current best practices, including empirical equations and numerical models. This workshop will include numerous case studies, hands-on modeling exercises, 'bucket-and-sand' demonstrations, and a site visit to a reservoir during a pressure flush.

Workshop Topics:

The workshop topics include sedimentation mechanics, computing reservoir volume change, an overview of available management methods, selecting a reservoir management method, empirical analysis for reservoir future without project conditions, and numerical modeling of sediment management scenarios such as altered release timing and drawdown flushes.

Who should attend:

Hydraulic and Civil Engineers focusing on river and reservoir engineering, modeling, design, and management. USACE sediment transport numerical models will be used extensively throughout the workshop - with a focus on HEC-RAS. Previous experience with the software is recommended but not required. An optional HEC-RAS and modeling refresher will be held Monday morning for those less familiar.

Can non-Corps practitioners attend?

State and Local agency personnel are welcomed with a USACE host.

Tuition: No tuition cost to participants.

Workshop Location and Time:

University of Kansas (Room TBA)
1530 W. 15th Street
Lawrence, KS 66045

RAS Refresher: Mon. June 11th—8:30-11:30am

Workshop: Mon. Jun 11th—1:00pm to Fri. Jun 15th—noon

For Additional Information, Contact:

John Shelley, NWK, 816-389-2310
Paul Boyd, NWO, 402-995-2350

john.shelley@usace.army.mil
paul.m.boyd@usace.army.mil

Sponsors: This workshop is being supported by the USACE Regional Sediment Management (RSM) program, which aims to develop a systems approach to **deliberately** manage sediments in a manner that maximizes natural and economic efficiencies to contribute to sustainable water resource projects, environments, and communities. Find out more at: <http://rsm.usace.army.mil/>

Partial instructor funding provided by the USACE Water Operations Technical Support (WOTS) program. See <https://wots.el.erdc.dren.mil/> for more information.

Sign up at:

<https://operations.erdc.dren.mil/nav/rsm.cfm?Step=1> by 15 May 2018.

