

**Appendix 4.** Extended abstracts submitted as part of the Federal Interagency Sediment Monitoring Instrument and Analysis Research Workshop, September 9-11, 2003, Flagstaff, Arizona

The extended abstracts associated with this report are available only online at the following URL:

<http://water.usgs.gov/osw/techniques/sediment/sedsurrogate2003workshop/listofpapers.html>

Extended abstracts by U.S. Geological Survey authors were reviewed and approved for publication by the U.S. Geological Survey. Articles submitted by others did not go through the U.S. Geological Survey review process, and therefore may not adhere to U.S. Geological Survey editorial standards or stratigraphic nomenclature. However, all articles were edited for consistency in appearance. The use of brand, firm, or trade names in any extended abstract does not constitute endorsement by the U.S. Geological Survey. The authors and titles of extended abstracts are listed below in alphabetical order by principle author.

*Abraham, David, Quantification of bed-load transport using multi-beam survey data: the ISSDOT Method (Integrated-Section Surface Difference over Time).*

*Agrawal, Y.C., and Pottsmith, H.C., Laser diffraction method: two new sediment sensors.*

*Barton, J.S., Slingerland, R.L., Gabrielson, T.B., and Johnson, P.A., Listening to bedload: a flume study relating acoustic response to bedload motion.*

*Braatz, D.A., and Tucker, R.L., A new series of sediment collectors for monitoring true bedload.*

*Bunte, Kristin, Potyondy, J.P., and Abt, S.R., Development of an improved bedload trap for sampling gravel and cobble bedload in coarse mountain streams.*

*Davis, J.E., and Rosati, J.D., Regional Sediment Management.*

*Dinehart, R.L., Spatial analysis of ADCP data in streams.*

*Gartner, J.W., and Gray, J.R., Summary of suspended-sediment technologies considered at the Interagency workshop on turbidity and other sediment surrogates.*

*Gray, J.R. and Glysson, G.D., Attributes for a sediment monitoring instrument and analysis research program.*

*Gray, J.R., Melis T.S., Eduardo Patiño, Gooding, D.J, Topping, D.J., Larsen, M.C., and Rasmussen, P.P., U.S. Geological Survey suspended-sediment surrogate research on optic, acoustic, and pressure-difference technologies.*

*Jackson, W.L., Regulated river restoration monitoring: The Elwah River dam removal and restoration project.*

*Kuhnle, R.A., and Wren, D.G., Cross-stream variations in suspended sediment transport over dunes, implications for sampling.*

*Laronne, J.B., and Gray, J.R., Formation of a Bedload Research International Cooperative.*

*Martini, Marina, USGS capabilities for studying sediment transport in the ocean.*

*Nichols, M.H., and Renard, K.G., Sediment research and monitoring at the USDA-ARS Walnut Gulch experimental watershed.*

*Northby, J.A., New optical instruments for sediment re-suspension measurements.*

*Pratt, Thad, and Parchure, Trimbak, OBS calibration and field measurements.*

*Parchure, T.M., Sobecki, T.M., and Pratt, T.C., Fine sediment parameter measurement for sedimentation studies.*

*Roberts, J.D., James, S.C., and Jepsen, R.A., Measuring bedload fraction with the ASSET flume.*

*Ryan, S.E., The use of pressure-difference samplers in measuring bedload transport in small, coarse-grained alluvial channels.*

*Wren, Daniel, Kuhnle, R.A., and Chambers, James, Measurement of suspended-sediment concentration and particle size in laboratory flumes.*

*Wright, Scott, Comparison of direct and indirect measurements of cohesive sediment concentration and size.*