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## Fluvial Sediment in the Environment: an International Challenge

By John Gray

Tuesday November 13, 11am-12pm

1080 Torgersen Hall

**Abstract:** Problems associated with sediment carried by rivers are common across the globe. John describes some of these problems, and some current methods and national strategies for measuring and tracking sediments through fluvial systems<sup>1</sup>.

**Bio:** John R. Gray is a Scientist Emeritus with the U.S. Geological Survey in Reston, VA, and Principal of GraySedimentology LLC (GraySedimentology.com). He has national and international experience and expertise in river science (sedimentology, hydrology & water quality) and limnology (nutrient cycling & water mass balance) largely acquired during his 37-year USGS career in IL, AZ, and VA. John served as the USGS Office of Surface Water National Sedimentologist from 1996-2014, during which he was responsible for technical oversight and support of a broad range of fluvial-sediment monitoring, research, coordination, and evaluation activities and for their coordination nationally and internationally. John holds an M.S. in Hydrosystems (Civil) Engineering with an emphasis in sedimentology from the University of Illinois, Urbana-Champaign; and a B.S. in Biology (aquatic ecology) from Northern Illinois University, Dekalb. He is currently a Ph.D. candidate in Civil and Environmental Engineering at Virginia Tech's Northern Virginia Center. Furthermore, John is a Professional Hydrologist, certified by the American Institute of Hydrology (2006), and a recipient of several awards, including: the U.S. Geological Survey Superior Service Award (2004); the Subcommittee on Sedimentation's Career Recognition Award (2013); the Department of the Interior's Distinguished Service Award (2014); and the American Institute of Hydrology's Robert G. Wetzel Award for Water Quality (2018).



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<sup>1</sup> This presentation is consistent with his Sept. 26, 2018, invited presentation at Brazil's biennial Sediment Engineering conference in Vitória. It is based on a [2010 conference paper](#) co-authored by John.