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Bibliography (through April 23, 2015)

Gray, J.R., and Demas, C.R., Measuring Sediment Transport in Large Rivers: 15 pages, approved for publication by the U.S. Geological Survey, submitted for inclusion in an international through editor Desmond Walling, University of Exeter, England, June 2013.

Gray, J.R., Demas, C.R., and Landers, M.N., Traditional and surrogate sediment-transport monitoring technologies for large rivers: 26 pages, in review prior to submission for publication in the International Journal of Sediment Research or another appropriate journal.

Brown, J.E., Gray, J.R., and Hornewer, N.J., 2015, In situ densimetric measurements as a surrogate for suspended-sediment concentrations in the Rio Puerco, New Mexico: Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada, p. 1,261-1,272 (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/7B-Brown.pdf> and <http://acwi.gov/sos/pubs/3rdJFIC/Proceedings.pdf>).

Gray, J.R., 2015, Progress toward developing a national, dynamic reservoir sedimentation database: Abstract, Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada, 12 p. (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/7C-Gray.pdf>).

Gray, J.R., and Landers, M.N., 2015, History of the Federal Interagency Sedimentation Project, Part V: Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada, P. 264-275. (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/2C-Gray.pdf> and <http://acwi.gov/sos/pubs/3rdJFIC/Proceedings.pdf>).

Gray, J.R., and O'Halloran, Denis, 2015, Maximizing the reliability and cost- effectiveness of your suspended-sediment data: Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada., p. 433-446 (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/3C-Gray.pdf> and <http://acwi.gov/sos/pubs/3rdJFIC/Proceedings.pdf>).

Johnson, G.P., Gray, J.R., Spicer, K.R., and Landers, M.N., 2015, U.S. Geological Survey training on sediment data collection techniques: Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada., p. 432. (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/3C-Johnson.pdf> and <http://acwi.gov/sos/pubs/3rdJFIC/Proceedings.pdf>).

Oms, J.A., López-Trujillo, Dianne, Gray, J.R. Skach, K.A. and Granad-Santos, Francisco, 2015, Electronic notes application for on-site recording and storage of U.S. Geological Survey fluvial-sediment data: Proceedings of the 3rd Joint Federal Interagency Conference (10th Federal Interagency Sedimentation Conference and 5th Federal Interagency Hydrologic Modeling Conference), April 19 – 23, 2015, Reno, Nevada., p. 279-286 (<http://acwi.gov/sos/pubs/3rdJFIC/Contents/2C-Skach.pdf> and <http://acwi.gov/sos/pubs/3rdJFIC/Proceedings.pdf>).

- Gray J.R., and Landers M.N., 2014, Measuring suspended sediment. In: Ahuja S. (ed.) *Comprehensive Water Quality and Purification: United States of America*, Elsevier, vol. 1, p. 157-204 (http://water.usgs.gov/osw/techniques/sediment/gray_landers_elsevier_chapter_12_10_17_2013.pdf).
- Randle, T.J., Collins, K.L., and Gray, J.R., 2013, Avoiding the inevitable – capacity loss from reservoir sedimentation: EOS, Transactions, American Geophysical Union, Meetings, DOI: 10.1002/2013EO010008, vol. 94, no. 1, January 1, page 4 (http://acwi.gov/sos/res_sust_workshop_sum_agu_eos_1_1_2013.pdf or <http://onlinelibrary.wiley.com/doi/10.1002/2013EO010008/abstract>).
- Collins, M.J., Gray, J.R., Peppler, M.C., Fitzpatrick, F.A., and Schubauer-Berigan, J.P., 2012, Developing a national stream morphology data exchange: Needs, challenges, and opportunities: EOS, Transactions, American Geophysical Union, Forum, doi:10.1029/2012EO200005, vol. 93, no. 20, p. 195 (<http://acwi.gov/sos/2012EO-forum.pdf>).
- Landers, M.N., Arrigo, J., and Gray, J.R., 2012, Advancing hydroacoustic technologies for sedimentology research and monitoring: EOS, Transactions, American Geophysical Union, Meetings, doi:10.1029/2012EO260007, vol. 93, no. 26, p. 244 (http://acwi.gov/sos/eos_landers_arrigo_gray_sed_hydroacoustics_6-26-12.pdf).
- Gartner, J.W., and Gray, J.R., 2010, Laser diffraction, *in*, Gray, J.R., and Gartner, J.W., eds., Section 1.2.2, Chapter 1, Surrogate technologies for monitoring suspended-sediment transport in rivers: Poletto, Cristiano, and Charlesworth, Susanne, eds., *Sedimentology of Aqueous Systems*, London: Wiley-Blackwell, p. 16-20 (http://water.usgs.gov/osw/techniques/sed_aq_sys_chap_1_pdf_from_wb_3_16_2010.pdf).
- Gray, J.R., Bernard, J.M., Stewart, D.W., McFaul, E.J., Laurent, K.W., Schwarz, G.E., Stinson, J.T, Jonas, M.R., Randle, Timothy, and Webb, J.W., 2010, Development of a national, dynamic reservoir sedimentation database. Proceedings of the Joint Federal Interagency (9th Sedimentation, and 4th Hydrologic Modeling) Conferences, June 27–July 1, Las Vegas, Nevada, 12 p. (http://acwi.gov/sos/pubs/2ndJFIC/Contents/7C_Gray_rested_3_4_2010_paper.pdf).
- Gray, J.R., Bernard, J.M., Stewart, D.W., McFaul, E.J., Laurent, K.W., Schwarz, G.E., Stinson, J.T, Jonas, M.R., Randle, Timothy, and Webb, J.W., 2010, Development of a national, dynamic reservoir sedimentation database: Proceedings of abstracts of papers of the 4th Federal Interagency Hydrologic Modeling Conference and the 9th Federal Interagency Sedimentation Conference, Las Vegas, NV, June 27–July 1, 2010, p. 172. (http://acwi.gov/sos/pubs/2ndJFIC/Contents/7C_Gray_rested_3_4_2010_paper.pdf).
- Gray, J.R., and Gartner, J.W., 2010, Surrogate technologies for monitoring suspended-sediment transport in rivers, *in*, Poletto, Cristiano, and Charlesworth, Susanne, eds., *Sedimentology of Aqueous Systems*, London: Wiley-Blackwell, Chapter 1, p. 3-45 (http://water.usgs.gov/osw/techniques/sed_aq_sys_chap_1_pdf_from_wb_3_16_2010.pdf).
- Gray, J.R., and Gartner, J.W., 2010, Overview of selected surrogate technologies for high-temporal resolution suspended-sediment monitoring: Proceedings of the Joint Federal Interagency (9th Sedimentation, and 4th Hydrologic Modeling) Conferences, June 27–July 1, Las Vegas, Nevada, 12 p. (http://acwi.gov/sos/pubs/2ndJFIC/Contents/3C_Gray_surrogates_3_3_2010_paper.pdf).
- Gray, J.R., and Gartner, J.W., 2010, Overview of selected surrogate technologies for high-temporal resolution suspended-sediment monitoring: Proceedings of abstracts of papers of the 4th Federal Interagency Hydrologic Modeling Conference and the 9th Federal Interagency Sedimentation Conference, Las Vegas, NV, June 27–July 1, p. 208.
- Gray, J.R., and Gartner, J.W., 2010, Surrogate technologies for monitoring bed-load transport in rivers, *in*, Poletto, Cristiano, and Charlesworth, Susanne, eds., *Sedimentology of Aqueous Systems*, London: Wiley-Blackwell, Chapter 2, p. 45-79 (http://water.usgs.gov/osw/techniques/sed_aq_sys_chap_2_pdf_from_wb_3_16_2010.pdf).
- Gray, J.R., Hornewer, N.J., Larsen, M.C., Fisk G.G., and Macy, J.P., 2010, Pressure difference, *in*, Gray, J.R., and Gartner, J.W., eds., Section 1.2.4, Chapter 1, Surrogate technologies for monitoring suspended-sediment transport in rivers: Poletto, Cristiano, and Charlesworth, Susanne, eds., *Sedimentology of Aqueous Systems*, London: Wiley-Blackwell, p. 23-28 (http://water.usgs.gov/osw/techniques/sed_aq_sys_chap_1_pdf_from_wb_3_16_2010.pdf).
- Gray, J.R., Laronne, J.B., and Marr, J.D.G, 2010, Bedload-surrogate monitoring technologies: U.S. Geological Survey Scientific Investigations Report 2010-5091, 37 p. (<http://pubs.usgs.gov/sir/2010/5091/>).

Gray, J.R., Laronne, J.B., Osterkamp, W.R. and Vericat, D., 2010, Bedload Research International Cooperative – BRIC, *in*, Gray, J.R., Laronne, J.B., and Marr, J.D.G, Bedload-surrogate monitoring technologies: U.S. Geological Survey Scientific Investigations Report 2010-5091, 10 p. (<http://pubs.usgs.gov/sir/2010/5091/papers/Gray.pdf>).

Gray, J.R. and Shadie, C.E., 2010, Determination of sediment, nutrient, and sediment-associated concentrations and loads for the conterminous United States – A proposal to establish a long-term, based-funded, network-design national monitoring program to generate sediment, nutrient, and sediment-associated concentrations, loads, budgets, and temporal trends (piloted in the Mississippi River basin): Several contributors, not formally published (http://acwi.gov/sos/minutes/MRB_full_proposal_usgs_coe_1_28_2010.pdf).

Larsen, M.C., Gellis, A. C., Glysson, G.D., Gray, J.R., and Horowitz, A.J., 2010, Fluvial sediment in the environment – a national challenge: Proceedings of the Joint Federal Interagency (9th Sedimentation, and 4th Hydrologic Modeling) Conferences, June 27–July 1, Las Vegas, NV, 15 p., (http://acwi.gov/sos/pubs/2ndJFIC/Contents/OS_Larsen_9fisc_sediment_vision_3_4_2010.pdf) .

Marr, J.D.G., Gray, J.R., Davis, B.E. Ellis, Chris, and Johnson, Sara, 2010, Large-scale laboratory testing of bedload-monitoring technologies—overview of the Streamlab06 experiments, *in*, Gray, J.R., Laronne, J.B., and Marr, J.D.G., Bedload-surrogate monitoring technologies: U.S. Geological Survey Scientific Investigations Report 2010-5091, 17 p. (<http://pubs.usgs.gov/sir/2010/5091/papers/Marr.pdf>).

Rasmussen, P.P., Gray, J.R., Glysson, G.D., and Ziegler, A.C., 2010, Computing time-series suspended-sediment concentrations and loads from in-stream turbidity-sensor and streamflow data: Proceedings of the Joint Federal Interagency (9th Sedimentation, and 4th Hydrologic Modeling) Conferences, June 27–July 1, Las Vegas, NV, 14 p. (http://acwi.gov/sos/pubs/2ndJFIC/Contents/8B_Rasmussen_03_01_10_paper.pdf).

Rasmussen, P.P., Gray, J.R., Glysson, G.D., and Ziegler, A.C., 2010, Computing time-series suspended-sediment concentrations and loads from in-stream turbidity-sensor and streamflow data: Proceedings of abstracts of papers of the 4th Federal Interagency Hydrologic Modeling Conference and the 9th Federal Interagency Sedimentation Conference, Las Vegas, NV, June 27–July 1, 2010, p. 303.

Rasmussen, P.P., Gray, J.R., Ziegler, A.C., Glysson, G.D., and Anderson, Chauncy, 2010, Turbidity (Bulk Optics), *in*, Gray, J.R., and Gartner, J.W., eds., Section 1.2.1, Chapter 1, Surrogate technologies for monitoring suspended-sediment transport in rivers: Poletto, Cristiano, and Charlesworth, Susanne, eds., *Sedimentology of Aqueous Systems*, London, Wiley-Blackwell, p. 11-16 (http://water.usgs.gov/osw/techniques/sed_aq_sys_chap_1_pdf_from_wb_3_16_2010.pdf).

Rus, D.L. Blevins, D.W., Demas, C.R., Gray, J.R., Heimann, D.C., Horowitz, A.J., Shadie, C.E., Stefanov, J.E., Wilson, R.C., and Ziegler, A.C, 2010, Proposed national sediment and water-quality monitoring Program piloted in the Mississippi River Basin – A synopsis: Abstracts, 2010 Missouri River Natural Resources Committee Conference and BiOP Forum, A Climate For Change: March 17-19, Nebraska City, MO, 1 p.

Gray, J.R., Bernard, J.M., Schwarz, G.E., Stewart, D.W., and Ray, K.T., 2009, Online interactive U.S. REServoir SEDimentation survey database and website: EOS, Transactions, American Geophysical Union, 2009ES002696, vol. 90, no. 23, p. 199 (http://water.usgs.gov/osw/techniques/eos_rested_6_9_2009_2009EO230003.pdf).

Gray, J.R., Bernard, J.M., Schwarz, G.E., Stewart, D.W., and Ray, K.T., 2009, RESSED – An Online Interactive REServoir SEDimentation Survey Database for the U.S.: Final Program and Abstract Book, “From Dust Bowl to Mud Bowl: Sedimentation, Conservation Measures and the Future of Reservoirs,” September 14-16, 2009, Kansas City, MO, p. 58-59.

Gray, J.R., Bernard, J.M., Stewart, D.W., Schwarz, G.E., and Ray, K.T., 2009, RESSED – an online interactive reservoir sedimentation survey database for the United States: Abstract, National Interdisciplinary Conference, Soil & Water Conservation Society, September 14-16, 2009, Kansas City, Missouri, 1 p.

Gray, J.R., and Gartner, J.W., 2009, U.S. Geological Survey synopsis of selected surrogate technologies for continuous suspended-sediment monitoring in rivers, *in*, *Produção de Sedimentos e Seus Impactos Ambientais, Sociais e Econômicos* (Proceedings of the VIII Brazilian Engineers Sediment Conference), Carlos Nobuyoshi Ide,

Luiz Augusto Araujo do Val, and Maria Lúcia Ribeiro, Organizers, November 2-8, 2008, Campo Grande, Matto do Sul, Brazil, p. 133-158.

Gray, J. R., and Gartner, J.W., 2009, Technological advances in suspended-sediment surrogate monitoring, *Water Resour. Res.*, 45, W00D29, doi:10.1029/2008WR007063, 20 p. (<http://water.usgs.gov/osw/techniques/2008WR007063.pdf>)

Rasmussen, P.P., Gray, J.R., Glysson, G.D., and Ziegler, A.C., 2009, Guidelines and procedures for computing time-series suspended-sediment concentrations and loads from in-stream turbidity-sensor and streamflow data: U.S. Geological Survey Techniques and Methods book 3, chapter. C4, 53 p. (<http://pubs.usgs.gov/tm/tm3c4/>).

Rasmussen, P.P., Gray, J.R., Ziegler, A.C., and Glysson, G.D., 2009, Final Program and Abstract Book, "From Dust Bowl to Mud Bowl: Sedimentation, Conservation Measures and the Future of Reservoirs," September 14-16, 2009, Kansas City, MO, p. 36.

Diplas, Panyiotis, Kuhle, R.A., Gray, J.R., Glysson, G.D., and Edwards, T.K., 2008, Sediment transport measurements, *in*, Marcelo Garcia, ed., *Sedimentation Engineering – Processes, Measurements, Modeling, and Practice*, American Society of Civil Engineers Manual 110, chapter 5, p. 305-351 (http://water.usgs.gov/osw/techniques/Diplas_Kuhnle_others.pdf).

Diplas, Panyiotis, Kuhnle, R.A., Gray, J.R., and Glysson, G.D., 2008, General introduction to chapter 5, sediment-transport measurements, *in*, Marcelo Garcia, ed., *Sedimentation Engineering – Processes, Measurements, Modeling, and Practice*, Chapter 5.1, pp. 305-307 (http://water.usgs.gov/osw/techniques/Diplas_Kuhnle_others.pdf).

Gray, J.R., Glysson, G.D., and Edwards, T.E., 2008, Suspended-sediment samplers and sampling methods, *in*, *Sediment transport measurements*, *in*, Marcelo Garcia, ed., *Sedimentation Engineering – Processes, Measurements, Modeling, and Practice*, American Society of Civil Engineers Manual 110, Chapter 5.3, p. 318-337 (http://water.usgs.gov/osw/techniques/Diplas_Kuhnle_others.pdf).

Gray, J.R., and Simões, F.J.M., 2008, Estimating sediment discharge, *in*, Marcelo Garcia, ed., *Sedimentation Engineering – Processes, Measurements, Modeling, and Practice*, American Society of Civil Engineers Manual 110, Appendix D, p. 1065-1086 (http://water.usgs.gov/osw/techniques/Gray_Simoes.pdf).

Gray, J.R. 2007, Mechanisms and measurement of fluvial-coal transport: Coal Mining and the Aquatic Environment (Conservation Management of the Clinch and Cumberland River Systems: Collaborative Discussion), symposium abstracts, Southwest Virginia Higher Education Center, Abingdon, VA, September 5-7, 2 p.

Gray, J.R., Laronne, J.B., and Marr, J.D.G., 2007, Outcomes from the International Bedload-Surrogate Monitoring Workshop, Minneapolis, Minnesota, USA, April 11-14, 2007: American Geophysical Union, EOS, DOI: 10.1029/2007EO450008, vol. 88, no. 45, November 6, p. 471 (<http://onlinelibrary.wiley.com/doi/10.1029/2007EO450008/abstract>).

Gray, J.R., Laronne, J.B., and Osterkamp, W.R., 2007, Bedload research international cooperative: Proceedings of the 10th International Symposium on River Sedimentation, Moscow, Russia, August 1-4, 2007, vol. III, p. 120-126 (abstract only at: http://www.irtces.org/zt/10isrs/lunwen/Session%203/Symposium_3_15a.htm).

Gray, J.R. and Osterkamp, W.R., 2007, A vision for a worldwide fluvial-sediment information network: Keynote (Invited) Paper, Proceedings of the 10th International Symposium on River Sedimentation, Moscow, Russia, August 1-4, 2007, vol. I, p. 43-54 (http://www.irtces.org/zt/10isrs/lunwen/Session%200/Symposium_0_5.htm).

Laronne, J.B., Marr, J.D.G., and Gray, J.R. 2007, Initial recommendations from the International Bedload-Surrogate Monitoring Workshop, Minneapolis, Minnesota, USA, April 11-14, 2007: U.S. Forest Service Stream Notes, October 2007, p. 5-7 (http://www.stream.fs.fed.us/news/streamnt/pdf/SN_10_07.pdf).

Osterkamp, W.R., Gray, J.R., Laronne, J.B., and Martin J.R., 2007, Structure and composition of a watershed-scale sediment information network: *International Journal of Sediment Research*, vol. 22, no. 3, p. 238-246.

Gray, J.R., 2006, Measurement of suspended-sediment transport: Dekker Encyclopedia of Water Science. DOI 10.1081/E-EWS-120042046, 5 p.
(<http://www.dekker.com/sdek/section?content=a713627207&scope=doc&fmt=.html> link broken; try:
<http://www.tandfonline.com/doi/abs/10.1081/E-EWS-120042046#.UxbWYfmwIb1>).

Gray, J.R., and Gartner, J.W., 2006, Overview of selected surrogate technologies for continuous suspended-sediment monitoring, *in*, Proceedings, 8th Federal Interagency Sedimentation Conference, April 2-6, 2006, Reno, Nevada, (ISBN 0-9779007-1-1), 8 p. (http://pubs.usgs.gov/misc_reports/FISC_1947-2006/pdf/1st-7thFISCs-CD/8thFISC/Session%204C-1_Gray.pdf) .

Koltun, G.F., Eberle, Michael, Gray, J.R., and Glysson, G.D., 2006, User's Manual for the Graphical Constituent Loading Analysis System (GLAS): U.S. Geological Survey Techniques and Methods Book 4, Chap. C1, 50 p. (<http://pubs.usgs.gov/tm/2006/tm4C1/>).

Laronne, J.B., and Gray, J.R. 2006, Bedload Research International Cooperative: European Geophysical Union General Assembly, April 2-7, 2006, Vienna, Austria, poster.

Gartner, J.W., and Gray, J.R., 2005, Summary of suspended-sediment technologies considered at the interagency workshop on turbidity and other sediment surrogates, *in*, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, September 9-11, 2003, Flagstaff, Arizona, J.R. Gray, ed.: U.S. Geological Survey Circular 1276, 9 p.
(http://water.usgs.gov/osw/techniques/sediment/sedsurrogate2003workshop/gartner_gray.pdf) .

Gray, J.R., (ed), 2005, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Research Workshop, September 9-11, 2003, Flagstaff, Arizona: U.S. Geological Survey Circular 1276, 46 p. (<http://water.usgs.gov/pubs/circ/2005/circ1276/>).

Gray, J.R., and Glysson, G.D., 2005, Attributes for a sediment monitoring instrument and analysis research program, *in*, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, September 9-11, 2003, Flagstaff, Arizona, J.R. Gray, ed.: U.S. Geological Survey Circular 1276, 6 p.
(http://water.usgs.gov/osw/techniques/sediment/sedsurrogate2003workshop/gray_glysson.pdf).

Gray, J.R., Melis, T.S, Bent, G.C. and Johnson, G.P., 2005, Introduction to the proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, *in*, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, September 9-11, 2003, Flagstaff, Arizona, J.R. Gray, ed.: U.S. Geological Survey Circular 1276, p. 4-7 (<http://pubs.usgs.gov/circ/2005/1276/pdf/introduction.pdf>).

Gray, J.R., Melis, T.S, Patiño, Eduardo, Gooding, D.J., Topping, D.J., Larsen, M.C., and Rasmussen, P.P., 2005, U.S. Geological Survey suspended-sediment surrogate research on optic, acoustic, and pressure-difference technologies. *in*, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, September 9-11, 2003, Flagstaff, Arizona, J.R. Gray, ed.: U.S. Geological Survey Circular 1276, 10 p.
(http://water.usgs.gov/osw/techniques/sediment/sedsurrogate2003workshop/gray_melis.pdf).

Laronne, J.B., and Gray, J.R., 2005, Formation of a Bedload Research International Cooperative, *in*, Proceedings of the Federal Interagency Sediment Monitoring Instrument and Analysis Workshop, September 9-11, 2003, Flagstaff, Arizona, J.R. Gray, ed.: U.S. Geological Survey Circular 1276, 9 p.
(http://water.usgs.gov/osw/techniques/sediment/sedsurrogate2003workshop/bric_3_19_2004.pdf).

Nolan, K.M., Gray, J.R., and Glysson, G.D., 2005, Introduction to suspended-sediment sampling: U.S. Geological Survey Scientific Investigations Report 2005-5077 (<http://pubs.er.usgs.gov/pubs/sir/sir20055077>), also available on CD-ROM.

Schwarz, G.E., Smith, R.A., Alexander, R.B., and Gray, J.R. 2005, A SPARROW model for mean sediment flux in the Conterminous U.S.: US-China Workshop on Advanced Computational Modeling in Hydrosience and Engineering: the University of Mississippi, Sept. 19-21, Workshop Program, Proceedings of Abstracts and Papers, p. 7.

Osterkamp, W.R., Heilman, Phil, and Gray, J.R., and 33 others, 2004, An invitation to participate in a North American sediment-monitoring network: American Geophysical Union, EOS, DOI: 10.1029/2004EO400005, vol. 84, no. 40, October 5, 2004, p. 386, 388-389 (<http://onlinelibrary.wiley.com/doi/10.1029/2004EO400005/abstract>).

Gray, J.R., Agrawal, Y.C., and Pottsmith, H.C., 2004, The LISST-SL streamlined isokinetic suspended-sediment profiler, *in*, Proceedings of the 9th International Symposium on River Sedimentation, Cheng Liu, ed.: Yichang, China, October 18-21, 2004, Tsinghua University Press, vol. IV, p. 2549-2555 (http://water.usgs.gov/osw/techniques/Lisst_Gray_Agrawal_Pottsmith.pdf).

Gray, J.R., and Gartner, J.W, 2004, Surrogate technologies for continuous suspended-sediment monitoring in the United States, *in*, Proceedings of the 9th International Symposium on River Sedimentation, Cheng Liu, ed.: Yichang, China, October 18-21, 2004, Tsinghua University Press, vol. IV, p. 2515-2522 (http://kleene.er.usgs.gov/sdct/images/8/8b/Gray_surrogate_tech_9isrs.pdf).

Gray, J.R., and Glysson, G.D., 2004, Traditional and new techniques for deriving sediment-discharge information in the United States (Invited Lecture), *in*, Proceedings of the 9th International Symposium on River Sedimentation, Ying Tan, ed.: Yichang, China, October 18-21, 2004, Tsinghua University Press, vol. 1, p. 493-504 (http://kleene.er.usgs.gov/sdct/images/1/13/Iv08_isrs9_jrgray_5_7_2004.pdf).

Gray, J.R., Laronne, J.B., and Osterkamp, W.R., 2004, Coordination of International Bedload Research, *in*, Proceedings of the 9th International Symposium on River Sedimentation, Cheng Liu, ed.: Yichang, China, October 18-21, 2004, vol. IV, Tsinghua University Press, p. 2501-2506, (http://kleene.er.usgs.gov/sdct/images/c/cb/Gray_bric.pdf).

Bent, G.C., Gray, J.R., Smith, K.P., and Glysson, G.D., 2003, A synopsis of technical issues for monitoring sediments in highway and urban runoff, *in*, The National Highway Runoff Data and Methodology Synthesis, Gregory E. Granato, Chester Zenone, and Patricia E. Cazenias, eds: U.S. Department of Transportation Publication No. FHWA-EP-03-054, vol. 1, p. 113-163 (<http://ma.water.usgs.gov/fhwa/products/ofr00497.pdf>).

Gartner, J.W., Mueller, D.S., Wall, G.R., and Gray, J.R., 2003, Breakout session 4—other fluvial-sediment surrogates, *in*, Gray, J.R. and Glysson, G.D., eds, Proceedings of the Federal Interagency Sedimentation Workshop on Turbidity and Other Sediment Surrogates, April 30-May 2, 2002, Reno, Nevada: U.S. Geological Survey Circular 1250, p. 21-27 (<http://water.usgs.gov/pubs/circ/2003/circ1250/>).

Gray, J.R., Patiño, Eduardo, Rasmussen, P.P., Larsen, M.C., Melis, T.S., Topping, D.J., and Alamo, C.F., 2003, Evaluation of sediment surrogate technologies for computation of suspended-sediment transport: Proceedings of the 1st International Yellow River Forum on River Basin Management, October 21-24, 2003, Zhengzhou, Henan Province, China, the Yellow River Conservancy Publishing House, vol. III, p. 314-323 (http://water.usgs.gov/osw/techniques/yrcc_surrogates.pdf).

Osterkamp, W.R., and Gray, J.R., 2003, Hazard mitigation related to water and sediment fluxes in the Yellow River basin, China, based on comparable basins of the United States: Proceedings of the 1st International Yellow River Forum on River Basin Management, October 21-24, 2003, Zhengzhou, Henan Province, China, the Yellow River Conservancy Publishing House, vol. II, p. 465-473 (http://www.irtces.org/isi/isi_document/wro_jrg_yellow_river.pdf).

Osterkamp, W.R., and Gray, J.R., 2003, An international watershed research network: Proceedings of the 1st International Yellow River Forum on River Basin Management, October 21-24, 2003, Zhengzhou, Henan Province, China, the Yellow River Conservancy Publishing House, vol. I, p. 7-10.

Latysh, Natalie, Schroder, L.J., and Gray, J.R., 2003, USGS sediment quality system for suspended-sediment concentration and particle-size analyses: Proceedings of the 1st International Yellow River Forum on River Basin Management, October 21-24, 2003, Zhengzhou, Henan Province, China, the Yellow River Conservancy Publishing House, vol. III, p. 324-332.

Glysson, G.D., and Gray, J.R., 2003, Total suspended solids—a critical evaluation: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, p. 25-30 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Gray, J.R., 2003, U.S. Geological Survey suspended-sediment surrogate research, Part I, Call for a sediment monitoring instrument and analysis research program: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, p. 53-57 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Gray, J.R., Gooding, Melis, T.S., Topping, D.J., and Rasmussen, P.P., 2003, U.S. Geological Survey suspended-sediment surrogate research, Part II: Optic technologies: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, p. 58-64 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Gray, J.R., Patiño, Eduardo, and Larsen, M.C., 2003, U.S. Geological Survey suspended-sediment surrogate research, Part III: Acoustic and pressure-differential technologies: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, pp. 65-69 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Gray, J.R. and Glysson, G.D., 2003, Synopsis of outcomes from the Federal Interagency Workshop on Turbidity and Other Sediment Surrogates: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, p. 37-44 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Gray, J.R., Glysson, G.D., Eychaner, J.H., and Anderson, C.W., 2003, Introduction to the proceedings of the Federal Interagency Workshop on Turbidity and Other Sediment Surrogates, *in*, Gray, J.R. and Glysson, G.D., eds, Proceedings of the Federal Interagency Sedimentation Workshop on Turbidity and Other Sediment Surrogates, April 30-May 2, 2002, Reno, Nevada: U.S. Geological Survey Circular 1250, p. 7-11 (<http://water.usgs.gov/pubs/circ/2003/circ1250/>).

Gray, J.R., Melis, T.S., Patiño, Eduardo, Larsen, M.C., Topping, D.J., Rasmussen, P.P., and Figueroa-Alama, Carlos, 2003, U.S. Geological Survey research on surrogate measurements for suspended sediment, *in*, Renard, Kenneth G., McElroy, Stephen A., Gburek, William J., Canfield, H. Evan, and Scott, Russell L., eds., Proceedings of the 1st Interagency Conference on Research in Watersheds: U.S. Department of Agriculture, Agricultural Research Service, October 27-30, 2003, Benson, Arizona, p. 95-100 (<http://www.tucson.ars.ag.gov/icrw/Proceedings/Gray.pdf>).

Gray, J.R., Osterkamp, W.R., Christiansen, Scott, and Sprigg, W.A., 2003, Formation of the Sino-U.S. Centers for Soil and Water Conservation and Environmental Protection: International Journal of Sediment Research Special Issue on Sediment Transport and Environmental Studies, vol. 18, no. 2, p. 248-252.

Gray, J.R., Osterkamp, W.R., and Xu Jianhua, 2003, Effects of water management on sediment transport in China's Yellow River, with comparisons from the United States (Keynote Lecture): International Journal of Sediment Research Special Issue on Sediment Transport and Environmental Studies, edited by Charles S. Melching and Cheng Liu, Vol. 18, no. 2, p. 285-290.

Gray, J.R., and Turcios, L.M., 2003, U.S. Geological Survey on-line fluvial sediment data: Proceedings of the Virginia Water Research Symposium 2003, Water Resource Management for the Commonwealth, Virginia Polytechnic Institute and State University, Blacksburg, October 8-10, 2003, p. 18-25 (http://vwrrc.vt.edu/pdfs/proceedings/2003WaterResearchSymposium_proceedings.pdf).

Osterkamp, W.R., and Gray, J.R., 2003, A proposed International Watershed Research Network, *in*, Renard, Kenneth, G., McElroy, Stephen A., Gburek, William J., Canfield, H. Evan, and Scott, Russell L., eds., Proceedings of the 1st Interagency Conference on Research in Watersheds: U.S. Department of Agriculture, Agricultural Research Service, October 27-30, 2003, Benson, Arizona, p. 292-295 (<http://water.usgs.gov/osw/techniques/china.pdf>).

Ries, K.R., and Gray, J.R., 2003, StreamStats: A U.S. Geological Survey web site for stream information, *in*, Renard, Kenneth, G., McElroy, Stephen A., Gburek, William J., Canfield, H. Evan, and Scott, Russell L., eds., Proceedings of the 1st Interagency Conference on Research in Watersheds: U.S. Department of Agriculture, Agricultural Research Service, October 27-30, 2003, Benson, Arizona, pp. 309-314.

Schwarz, G.E., Smith, R.A. Alexander, R.B., and Gray, J.R., 2003, Recent progress in the development of a SPARROW model of sediment for the conterminous U.S., *in*, Renard, Kenneth, G., McElroy, Stephen A., Gburek, William J., Canfield, H. Evan, and Scott, Russell L., eds., Proceedings of the 1st Interagency Conference on Research in Watersheds: U.S. Department of Agriculture, Agricultural Research Service, October 27-30, 2003, Benson, Arizona, p. 257-262 (<http://www.tucson.ars.ag.gov/icrw/Proceedings/Schwarz.pdf>).

Gray, J.R., 2002, The need for sediment surrogate technologies to monitor fluvial-sediment transport, *in*, Gray, J.R. and Glysson, G.D., eds, Proceedings of the Federal Interagency Sedimentation Workshop on Turbidity and Other Sediment Surrogates, April 30-May 2, 2002, Reno, Nevada: U.S. Geological Survey Circular 1250, 4 p. (<http://water.usgs.gov/osw/techniques/TSS/gray.pdf>).

Gray, J.R., 2002, Formation of the Sino-US Centers for Soil and Water Conservation and Environmental Protection: U.S.-Chinese Joint Workshop on Sediment Transportation and Environmental Studies: Conference Program and Abstracts, p. 1

Gray, J.R., Glysson, G.D., and Mueller, D.S., 2002, Comparability and accuracy of fluvial-sediment data: A view from the U.S. Geological Survey: Proceedings of the American Society of Civil Engineers, Hydraulic Measurements and Methods Symposium, July-August, 2002, Estes Park, CO, 6 p. (<http://water.usgs.gov/osw/techniques/asce.pdf>).

Gray, J.R., Osterkamp, W.R., and Xu Jianhua, 2002, Effects of soil and water conservation on China's Yellow River with comparisons from the United States: Proceedings of the International Soil Conservation Organization, May 27-31, Beijing, vol. II, p. 565-569.

Gray, J.R., Osterkamp, W.R., and Xu Jianhua, 2002, Effects of water management on sediment transport in China's Yellow River, with comparisons from the United States: International Journal of Sediment Research Special Issue, Proceedings of the 2nd US-Chinese Joint Workshop on Sediment Transport and Environmental Studies, July 22-28, 2002, Milwaukee, WI, 6 p.

Glysson, G.D., and Gray, J.R., 2002, Total suspended solids data for use in sediment studies, *in*, Gray, J.R. and Glysson, G.D., eds, Proceedings of the Federal Interagency Sedimentation Workshop on Turbidity and Other Sediment Surrogates, April 30-May 2, 2002, Reno, Nevada: U.S. Geological Survey Circular 1250, 4 p. (<http://water.usgs.gov/osw/techniques/TSS/glysson.pdf>).

Glysson, G.D., Gray, J.R., and Schwarz, G.E., 2001, A comparison of load estimates using total suspended solids and suspended-sediment concentration data: Proceedings of the 2001 ASCE Water World Congress, Orlando, FL, May 20-24, 10 p. (http://water.usgs.gov/osw/pubs/TSS_Orlando.pdf).

Gordon, J.D., Newland, C.A., and Gray, J.R., 2001, Sediment laboratory quality-assurance project: Studies of methods and materials: Proceedings of the 7th Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-29, Vol. II, VI-41 to VI-48.

Gray, J.R., and Glysson, G.D., 2001, Are total suspended solids and suspended-sediment concentrations in open-channel flows the same data type?: Conservation and Survey Division, Institute of Agriculture and Natural Resources, Open-File Report 60, Programs and Abstracts of the 7th International Conference on Fluvial Sedimentology, University of Nebraska, Lincoln, August 6-10, 2001, p. 112.

Gray, J.R., and Glysson, G.D., 2001, Collection and use of total suspended solids data: U.S. Forest Service Stream Systems Technology Center, STREAM Notes, April, p. 6-7 (http://stream.fs.fed.us/news/streamnt/pdf/SN_4_01.pdf).

Gray, J.R., Gordon, J.D., Newland, C.A., and Schroder, L.J., 2001, A national quality assurance program for sediment laboratories operated or used by the U.S. Geological Survey: Proceedings of the 7th Federal Interagency Sedimentation Conference, Vol. I, poster 37-40.

Larsen, M.C., Figueroa-Alamo, C., Gray, J.R., and Fletcher, William, 2001, Continuous automated sensing of streamflow density as a surrogate for suspended-sediment concentration sampling: Proceedings of the 7th Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-29, vol. I, III-102 to III-109 (http://pubs.usgs.gov/misc_reports/FISC_1947-2006/pdf/1st-7thFISCs-CD/7thFISC/7Fisc-V1/7FISC1-3.pdf).

McKallip, T.E., Koltun, G.F., Gray, J.R., and Glysson, G.D., 2001, GCLAS – a graphical constituent loading analysis system: Proceedings of the 7th Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-29, vol. II, VI-49 to VI-52.

Osterkamp, W.R., and Gray, J.R., 2001, U.S. Geological Survey programs and investigations related to soil and water conservation: International Journal of Sediment Research, vol. 16, no. 3, p. 421-429 (http://water.usgs.gov/osw/techniques/china_paper.pdf).

Schwarz, G.E., Smith, R.A., Alexander, R.B., and Gray, J.R., 2001, A spatially referenced regression model (SPARROW) for suspended-sediment in streams of the conterminous U.S.: Proceedings of the 7th Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-29, Vol. II, VII-80 to VII-87.

Turcios, L.M., and Gray, J.R., 2001, U.S. Geological Survey sediment and ancillary data on the World Wide Web: Proceedings of the 7th Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-29, Vol. 1, Poster 31-36.

Turcios, L.M., Gray, J.R., and Ledford, A.L., 2000, Summary of U.S. Geological Survey on-line instantaneous fluvial sediment and ancillary data (<http://water.usgs.gov/osw/sediment/>).

Bent, G.C., Gray, J.R., Smith, K.P., and Glysson, G.D., 2000, A synopsis of technical issues for monitoring sediments in highway and urban runoff: U.S. Geological Survey Open-File Report 00-497, 51 p. (<http://pubs.usgs.gov/of/2000/ofr00-497/>).

Gray, J.R., Glysson, G.D., Turcios, L.M., and Schwarz, G.E., 2000, Comparability of suspended-sediment concentration and total suspended solids data: U.S. Geological Survey Water-Resources Investigations Report 00-4191, 14 p. (<http://water.usgs.gov/osw/pubs/WRIR00-4191.pdf>).

Gray, J.R., Gordon, J.D., Newland, C.A., and Schroder, L.J., 2000, The U.S. Geological Survey national sediment laboratory quality-assurance program: Proceedings of the 2000 Gravel Bed Rivers Symposium compiled on CD-ROM by T.J. Nolan and C.R. Thorne as a Special Publication of the New Zealand Hydrological Society, August 28-September 3, 2000, Christchurch, New Zealand, 5 p.

Gray, J.R., and Schmidt, L.J., 2000, Sediment-data quality, availability, and emerging technologies, in, Proceedings of the 2000 Gravel Bed Rivers Symposium, M. Paul Mosley, ed, p. 369-373.

Glysson, G.D., Gray, J.R., and Conge, L.M., 2000, Adjustment of total suspended solids data for use in sediment studies: Proceeding of the ASCE's 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, July 30 – August 2, 2000, Minneapolis, Minnesota, 10 p. (<http://water.usgs.gov/osw/pubs/ASCEGlysson.pdf>).

Turcios, L.M., Gray, J.R., and Ledford, A.L., 2000, Summary of U.S. Geological Survey On-Line Instantaneous Fluvial Sediment and Ancillary Data (<http://water.usgs.gov/osw/sediment/index.html>).

Buxton, J.T., Nimick, D.A., von Guerard, P., Church, S.E., Frazier, A.G., Gray, J.R., Lipin, B. R., Marsh, S.P., Woodward, D.F., Kimball, B.A., Finger, S.E., Ischinger, L.S., Fordham, J.C., Power, M.S., Bunck, C.M., and Jones, J.W., 1997, A science-based, watershed strategy to support effective remediation of abandoned mine lands, in, Proceedings of the Fourth International Conference on Acid Rock Drainage, May 30-June 6, 1997, Vancouver, British Columbia, Canada, 8 p. (<http://amli.usgs.gov/reports/icard97/icard97.html>).

Glysson, G.D. and Gray, J.R., 1997, Coordination and standardization of Federal sedimentation activities, in, Expanding Sediment Research Capabilities in Today's USGS, J.R. Gray, ed: Technical Committee of the Subcommittee on Sedimentation, St. Petersburg, FL, Feb. 17-19, 1997, 3 p. (<http://water.usgs.gov/osw/techniques/sedtech21/gray.html>).

Gray, J.R., Williams, S.J., Finger, S.E., and Jones, J.W., 1997, Overview of USGS sediment research and monitoring capabilities, in, Expanding Sediment Research Capabilities in Today's USGS: 4 p. (<http://water.usgs.gov/public/osw/techniques/workshop/>).

Gray, J. R., Van Metre, P. C., 1996, Uranium-mining releases from the Grants mineral belt to the Little Colorado River basin, Arizona and New Mexico, in, Stevens, P. R. and Nicholson, T. J. (eds), Joint U.S. Geological Survey, U.S. Nuclear Regulatory Commission workshop on Research related to low-level radioactive waste disposal, Reston, Virginia, May 4-6, 1993, U.S. Geological Survey Water-Resources Investigations Report 95-4015, p. 14-18 (<http://pubs.er.usgs.gov/pubs/wri/wri954015>).

Graf, J.B., Wirt, Laurie, Swanson, E.K., Fisk, G.G., and Gray, J.R., 1996, Streamflow transport of radionuclides in the Puerco and Little Colorado River basins, Arizona and New Mexico: U.S. Geological Survey Water-Supply Paper 2459, 89 p. (<http://pubs.er.usgs.gov/publication/wsp2459>).

Landa, E.R., and Gray, J.R., 1995, U.S. Geological Survey research on the environmental fate of uranium mining and milling wastes (Invited Paper): Environmental Geology, Vol. 26, p.19-31 (<http://link.springer.com/article/10.1007%2FBF00776028#page-1>).

Gray, J.R., Hart, R.J., and Molnia, B.F., 1994, 1994 Changes in physical and sedimentary characteristics of proglacial Vitus Lake resulting from the surge of Bering Glacier, Alaska (abs): EOS, Transactions, American Geophysical Union, 1994 Fall Meeting, vol. 75, no. 44, November 1, 1994, Supplement, p. 63, Invited Abstract.

Healy, R.W., Gray, J.R., de Vries, M.P., Mills, P.C., 1994, Water balance for the Sheffield, Illinois low-level radioactive-waste disposal site (abs): American Geophysical Union, EOS, Transactions, vol. 75, no. 16, p. 163.

- Koltun, G.F., Gray, J.R., and McElhone, T.J., 1994, User's manual for SEDCALC, a computer program for computation of suspended-sediment discharge: U.S. Geological Survey Open-File Report 94-459, 46 p. (<http://pubs.er.usgs.gov/pubs/ofr/ofr94459>).
- Merrand, Y., Hallet, B., Molnia, B., Gray, J., and Hart, R., 1994, Bering Glacier: Toward a sediment budget (abs): EOS, Transactions, American Geophysical Union, 1994 Fall Meeting, Vol. 75, No. 44, November 1, 1994, Supplement, p. 63-64.
- Gray, J.R., and Fisk, G.G., 1992, Monitoring radionuclide and suspended-sediment transport in the Little Colorado River basin, Arizona and New Mexico, USA, in Bogen, J., Walling, D.E., and Day, T.J., eds, Erosion and Sediment Transport Monitoring Programmes in River Basins, Proceedings: International Association of Hydrological Sciences Publication No. 210, p. 505-516 (http://ks360352.kimsufi.com/redbooks/a210/iahs_210_0505.pdf).
- Van Metre, P.C., and Gray, J.R., 1992, Effects of uranium mining discharges on water quality in the Puerco River basin, Arizona and New Mexico: Journal of Hydrological Sciences, vol. 37, no. 5, p. 463-480 (https://itia.ntua.gr/hsj/37/hysj_37_05_0463.pdf).
- Gray, J.R., 1991, Low-flow sediment transport in the Colorado River (abs): Arizona Hydrological Society, Spring Seminar, Page, AZ, May 3-5, 1991, Proceedings, p. 6-7.
- Gray, J.R., 1991, Runoff and land modification, in Ryan B.J., ed., Results of hydrologic research at a low-level radioactive-waste disposal site, Sheffield, Illinois: U.S. Geological Survey Water-Supply Paper 2367, p. 23-27 (<http://pubs.usgs.gov/wsp/2367/report.pdf>).
- Gray, J.R., Smith, J.D., and Graf, J.B., 1991, Sediment-transport research, Grand Canyon, Arizona (abs): Proceedings of the First Biennial Conference on Research in the Colorado Plateau National Parks, July 22-24, Flagstaff, AZ, p. 29.
- Gray, J.R., Van Metre, P.C., and Wirt, Laurie, 1991, Radionuclide transport in the Little Colorado River basin (abs): Proceedings of the First Biennial Conference on Research in the Colorado Plateau National Parks, July 22-24, Flagstaff, AZ, p. 30.
- Gray, J.R., Webb, R.H., and Hyndman, D.W., 1991, Low-flow sediment transport in the Colorado River, in, Proceedings of the Fifth Federal Interagency Sedimentation Conference: Interagency Advisory Committee on Water Data, Subcommittee on Sedimentation, Las Vegas, vol. 1, p. 4-63 to 4-71.
- Gray, J.R., Lopes, T.J., and Wirt, L., 1990, Water quality in uranium-mine pits and ground water in the Cameron Uranium Mining Belt, Arizona (abs.), in, Minimizing Risk to the Hydrologic Environment: Proceedings, American Institute of Hydrology 1990 Spring Meeting, Las Vegas, NV, p. 19-20.
- Gray, J.R., and McElhone, T.J., 1990, A computer program to increase automation in computations of sediment-discharge records, in Balthrop, B.H., and Baker, E.G., compilers, U.S. Geological Survey National Computer Technology Meeting - Program and Abstracts, May 7-11, 1990: U.S. Geological Survey Open-File Report 90-161, p. 12 (<http://pubs.er.usgs.gov/pubs/ofr/ofr90161>).
- Gray, J.R., and Webb, R.H., 1990, Historic activities of radionuclides in the Puerco and lower Little Colorado River basin, Arizona and New Mexico, in Radon Gas in Water, Gunderson and Wanty, eds., Field Studies of Radon in Rocks, Soils, and Water: U.S. Geological Survey Bulletin 1971, p. 297-311.
- Gray, J.R., 1989, Surface hydrology at the low-level radioactive-waste repository site near Sheffield, Illinois, in Bedinger, M.S. and Stevens, P.R., eds., Safe disposal of radionuclides in low-level radioactive-waste repository sites -- low-level radioactive-waste disposal workshop, U.S. Geological Survey, July 11-16, 1987, Big Bear Lake, Calif., Proceedings: U.S. Geological Survey Circular 1036, p. 8-13.

Healy, R.W., Gray, J.R., de Vries, M.P., Mills, P.C., 1989, Water balance at a low-level radioactive-waste disposal site: American Water Resources Association, Water Resources Bulletin, v. 25, no. 2, April 1989, p. 381-390.

Mades, D.M., Weiss, L.W., and Gray, J.R., 1989, Techniques for computing discharge at four navigation dams on the Illinois and Des Plaines Rivers in Illinois: U.S. Geological Survey Water-Resources Investigations Report 89-4106, 58 p. (<http://pubs.er.usgs.gov/pubs/wri/wri894106>).

Van Metre, P.C., Wirt, Laurie, and Gray, J.R., 1989, Geochemical controls on radionuclide mobility in shallow ground water near an ephemeral stream in northeastern Arizona (abs): U.S. Geological Survey Second Symposium on Water Quality: Abstracts of the Technical Sessions, Orlando, Florida, November 12-17, 1989, p. 103.

Wirt, Laurie, Van Metre, P.C., and Gray, J.R., 1989, Occurrence and movement of radionuclides in the Puerco River basin, Arizona and New Mexico (abs)- U.S. Geological Survey Second Symposium on Water Quality: Abstracts of the Technical Sessions, Orlando, Florida, November 12-17, 1989, p. 109.

Gray, 1987, Erosion and landform modification at a low-level radioactive-waste disposal facility near Sheffield, Illinois, in Glysson, G.D., ed., Proceedings of the Advanced Seminar on Sedimentation, August 15-19, 1983, Denver, Colorado: U.S. Geological Survey Circular 953, p. 21 and 23 (<http://pubs.er.usgs.gov/publication/cir953>).

Gray, J.R., 1986, Landform modifications at a nuclear-waste burial site, in, Proceedings, Fourth Federal Interagency Sedimentation Conference: Interagency Advisory Committee on Water Data, Subcommittee on Sedimentation, Las Vegas, Vol. 1, pp. 3-93 to 3-102; available online via: http://water.usgs.gov/pubs/misc_reports/FISC_1947-2001/.

Ryan, B.J., Gray, J.R., Striegl, R.G., and Healy, R.W., 1986, Sheffield, Illinois, in U.S. Geological Survey research in radioactive waste disposal--Fiscal Years 1983, 1984, and 1985: U.S. Geological Survey Water-Resources Investigations Report 87-4009, p. 80-84 (<http://pubs.er.usgs.gov/pubs/wri/wri874009>).

Gray, J.R., 1985, Collapse and erosion at the low-level radioactive-waste burial site near Sheffield, Illinois, in Seventh Annual Department of Energy low-level waste management program Participants' information meeting, DOE Low-Level Waste Management Program, Las Vegas, Nevada, September 10-13, 1985, Abstracts: U.S. Department of Energy, Oak Ridge National Laboratory, CONF 8509121, p. 737-753.

Gray, J.R., and McGovern, L.L., 1985, Collapse and erosion at the low-level radioactive-waste burial site near Sheffield, Illinois, in Seventh Annual DOE LLWMP Participants' Information Meeting, DOE Low-Level Waste Management Program, Las Vegas, Nevada, September 10-13, 1985, Abstracts: U.S. Department of Energy, Oak Ridge National Laboratory, CONF 8509121, abstracts, p. 90.

Gray, J.R., and Peters, C.A., 1985, Runoff, sediment transport, and surface collapse at a low-level nuclear-waste burial site in Sheffield, Illinois (abs), in Graves, D.H., and De Vore, R.W., eds., Proceedings, 1985 National Symposium on Surface Mining, Hydrology, Sedimentology, and Reclamation, December 9-13, 1985: University of Kentucky report, p. 389.

Allen, H.E., Jr., and Gray, J.R., 1984, Runoff, sediment transport, and water quality in a northern Illinois agricultural watershed before urban development, 1979-81: U.S. Geological Survey Water-Resources Investigations Report 82-4073, 55 p. (<http://pubs.er.usgs.gov/pubs/wri/wri824073>).

Foster, J.B., Healy, R.W., and Gray, J.R., 1984, Low-level waste studies, Sheffield, Illinois, in Schneider, Robert, and Trask, N.J., eds., U.S. Geological Survey research in radioactive waste disposal--Fiscal year 1982: U.S. Geological Survey Water Resources Investigations Report 84-4205, p. 89-93 (<http://pubs.er.usgs.gov/pubs/wri/wri844205>).

Gray, J.R. and deVries, M.P., 1984, A system for measuring surface runoff and collecting sediment samples from small areas, in Meyer, E.L., ed., Selected papers in the hydrologic sciences, 1984: U.S. Geological Survey Water-Supply Paper 2262, p. 6-11 (<http://pubs.er.usgs.gov/usgspubs/wsp/wsp2262>).

Gray, J.R., 1984, Runoff, sediment transport, and landform modifications near Sheffield, Illinois, in Sixth Annual Department of Energy Low-Level Waste Management Program Participants' Information Meeting, DOE Low-Level Waste Management Program, Denver, September 11-13, 1984: U.S. Department of Energy, Oak Ridge National Laboratory, CONF-8409115, pp. 534-544.

Gray, J.R., and deVries, M.P., 1984, Runoff, sediment transport, and landform modifications near Sheffield, Illinois (abs.), in Sixth Annual DOE LLWMP Participants' Information Meeting, DOE Low-Level Waste Management Program, Denver, September 11-13, 1984, Abstracts: U.S. Department of Energy, Oak Ridge National Laboratory, CONF-8409115, abstract, p. 67.

Gray, J.R., 1983, Erosion and landform modification studies at a low-level radioactive-waste disposal facility near Sheffield, Illinois, (abs.): DeKalb, Illinois, Illinois Water Resources Conference, Illinois Water--Planning for the Future, April 7-8, 1983, p. 33.

Gray, J.R., 1976, The periphytic diatom flora of the South Branch Kishwaukee River at Dekalb, Illinois, and their use as indicators of water quality, *in*, Graham, M.W., ed., Effects and indications of industrial and domestic effluents upon the Kishwaukee River: National Science Foundation Student Organized Studies Grant No. SMI76-08018, Final Technical Report, p. 222-247.