

RECENT PUBLICATIONS:

Books and Book Chapters

1. Calvin C. Chien; Miguel A. Medina, Jr.; George F. Pinder; Danny D. Reible; Brent E. Sleep; and Chunmiao Zheng, Ed. *Contaminated Ground Water and Sediment*, CRC Press (2004)
2. Reible, D., K. Demnerova, Ed. *In-Situ Assessment and Remediation of Contaminated Sites*, NATO Science Series in Environmental Sciences, Kluwer, Netherlands (2002)
3. Choy, B. and D.D. Reible, *Diffusion Models of Environmental Transport*, CRC Press (2000) 184 pp.
4. Reible, D.D. *Fundamentals of Environmental Engineering*, CRC Press (1999) 526 pp.
5. Chapman, P., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harass, C. Hogstrand, D.D. Reible, A. Ringwood, Chapters 7 and 17 in *Use of Sediment Quality Guidelines*, Ed. By R. Wenning, C. Ingersoll and G. Batley, SETAC Press (2005)
6. L.J. Thibodeaux, D.D. Reible and K.T. Valsaraj, "Non-particle Resuspension Chemical Transport from Stream Beds," Chapter 7 in *Chemicals in the Environment: Fate, Impacts and Remediation*, Ed. R. Lipnick, R. Mason, M. Phillips and C. Pittman, ACS Symposium Series 806 (2002)

Journal Publications

1. Apitz, A.E, J. W. Davis, K. Finklestein, D.W. Hohreiter, R. Hoke, R.H. Jensen, J. Jersak, V.J. Kirtay, E.E. Mack, V.S. Magar, D. Moore, D. Reible, R.G. Stahl, "Assessing and Managing Contaminated Sediments: Part I, Developing an Effective Investigation and Risk Evaluation Strategy", *Integrated Environmental Assessment and Management*, 1, 1 2-9 (2004)
2. Apitz, A.E, J. W. Davis, K. Finklestein, D.W. Hohreiter, R. Hoke, R.H. Jensen, J. Jersak, V.J. Kirtay, E.E. Mack, V.S. Magar, D. Moore, D. Reible, R.G. Stahl, "Assessing and Managing Contaminated Sediments: Part II, Evaluating Risk and Monitoring Sediment Remedy Effectiveness", *Integrated Environmental Assessment and Management*, 1, 1 e1 (2004)
3. Lu, X.X., D. D. Reible, J. W. Fleeger, Relative Importance of Ingested Sediment Versus Pore Water Uptake Routes for PAHs to the Deposit-Feeding Oligochaete *Ilyodrilus templetoni*, *Archives of Environmental Contamination and Toxicology*, 47(2) 207-214.
4. Thibodeaux, L.J., H. Huls, R. Ravikrishna, K.T. Valsaraj, M. Costello, D. Reible, "Laboratory Simulation of Chemical Evaporation from Dredge-Produced Sediment Slurries" *Environmental Engineering Science*, 21, 6, 730-740 (2004)
5. Lu, X.X., D.D. Reible, J.W. Fleeger, 'Adsorption/desorption and bioavailability of sediment-associated benzo[a]pyrene', *Environmental Toxicology and Chemistry*, 1, p. 57-64 (2004).
6. Yan, Le, Karsten E. Thompson, Kalliat T. Valsaraj, and Danny D. Reible In-Situ Control of DNAPL Density Using Polyaphrons, *Environ. Sci. Technol.*; 37(19) pp 4487 – 4493 (2003)
7. Reible, D.D., D. Hayes, C. Lue-Hing, J. Patterson, N. Bhowmik, M. Johnson, and J. Teal, "Comparison of the Long-Term Risks of Removal and In-Situ Management of Contaminated Sediments in the Fox River", *Journal of Soil and Sediment Contamination*, 12(3) 325-344 (2003)
8. Lu, X.X., D. Reible, "Linking sediment exposure with effects: modeling techniques, organic availability and uptake", *Int'l Journal of Sediment Research*, 18, 2 208-213 (2003)
9. Lu, X.X, D. D. Reible, J.W. Fleeger, and Y.Z. Chai, "Bioavailability of Desorption-Resistant Phenanthrene to the Oligochaete *Ilyodrilus templetoni*" *Environmental Toxicology and Chemistry*, 22, 153-160 (2003)
10. Work, P.A., P.R. Moore, and Reible, D.D., Bioturbation, advection, and diffusion of a conserved tracer in a laboratory flume *Water Resources Research*, v 38, n 6, 241-249 (2002)
11. Reible, D. And S. Mohanty, "A Levy Flight Random Walk Model for Bioturbation", *Environmental Toxicology and Chemistry*, 21, 4 875-881 (2002)
12. Ravikrishna, R., K.T. Valsaraj, L.J. Thibodeaux, and D.D. Reible. Effects of oil and grease on the vaporization of organic compounds from contaminated sediments, *Environmental Engineering Sciences*, 19, 2, 101-114 (2002).
13. Thibodeaux, L.J., K.T. Valsaraj and D.D. Reible. Bioturbation driven transport of hydrophobic organic contaminants from bed sediment. *Environmental Engineering Science*, 18, 4, 215-223 (2001)
14. Millward, R.N., J. W. Fleeger, D.D. Reible, K.A. Keteles, B. P. Cunningham, L. Zhang, Pyrene bioaccumulation, effects of pyrene exposure on particle size selection and fecal pyrene content in the oligochaete *Limnodrilus hoffmeisteri* (Tubificidae, Oligochaeta), *Environ. Toxic. Chem.* 20 (2001)

RECENT PROFESSIONAL ACTIVITIES

Research Projects

Anacostia Active Capping Demonstration Program – Principal Investigator on a \$5 MM project demonstrating technologies that both provide containment and treatment for contaminated sediments. The project involves extensive characterization, implementation and evaluation efforts. Specific technologies being demonstrated include Aquablok (with the EPA SITE program) for permeability control, Apatite for metals sequestration, Coke Breeze for organic sequestration, and a cap placement technology, a reactive core mat developed in cooperation with CETCO, Inc (2002-2008)

Mercury Assessment and Remediation, Pompton Lakes, NJ – Dr. Reible is the Principal Investigator on a \$120K project to evaluate remedial options for mercury contaminated sediments in the Pompton Lakes, NJ for the Dupont Company. The effort focuses on mercury dynamics and mobility during and subsequent to capping (2004-2005)

Assessment and Remediation of Petroleum Impacted Sediments, Calcasieu, LA – Principal Investigator on a \$100K project to assess the feasibility and implications of capping soft sediments contaminated with petroleum sludges in the Calcasieu Estuary, Lake Charles, LA (2004-2005)

Assessment of Organoclay Amended Caps for Creosote Contaminated Sediments in Portland, OR – Principal Investigator on a \$75K project to assess the performance characteristics of organoclay amended caps for containing creosote contaminated sediments at the McCormick and Baxter Site, Portland, OR. (2004-2005)

Bioturbation and Bioavailability of Desorption Resistant Contaminants – Principal Investigator on research program assessing contaminant concentration levels to availability and accumulation in benthic organisms. Focus on PAH contaminants that exhibits desorption resistant behavior and the effect of tubificid oligochaetes. Funding to date from EPA and the Department Threat Reduction Agency exceeding \$2.5 MM (1998-2006)

Hazardous Substance Research Center/South and Southwest - Principal Investigator and Director of multiuniversity consortium of Louisiana State University, Rice University, Georgia Institute of Technology, Texas A&M and University of Texas conducting research and outreach on the engineering management of contaminated sediments. (1995-2006)

Consulting and Expert Witness Activities – Current and Recent

Consultant on evaluation and selection of remedial approaches, Pompton Lake, NJ

Consulting on evaluation and selection of remedial approaches, Brakes Bayou, TX

Consulting for EPA Sediment Resource Center on evaluation remedial approaches, Silver Lake, MA

Consulting on evaluation and selection of remedial approaches, Welch River, NC

Consulting on evaluation and selection of remedial approaches, Alcan Scow, British Columbia, Canada

Consulting on evaluation and selection of remedial approaches, Hastings Site, Hudson River, NJ

Consulting on evaluation and selection of remedial approaches, Jersey City Chromium site, NJ

Peer review for EPA on Grasse River capping demonstration ice scour, NY

Consultant on evaluation and selection of remedial approaches, Onondaga Lake, Syracuse NY

Consultant on capping contaminated sediments in the Thea Foss Waterway, Tacoma, WA

Expert witness on phenol fire release and exposures, Plaquemine, LA

Consultant and member of expert panel on remediation of the Lower Fox River- Appleton Paper, WI

Consultant on contaminated sediment remediation - Citgo/Occidental Corporations, Lake Charles, LA