

William J. Adams, Ph.D.

Dr. Adams is currently Director of Environmental Affairs for Kennecott Utah Copper and is responsible for environmental research, ecological risk assessments, and product stewardship programs for Kennecott. Recent research interests include developing ecotoxicology risk assessment methods for metals, site-specific methodologies for water quality criteria for metals, and development of an alternative strategy for metals to replace the existing PBT (persistent, toxicity and bioaccumulation) approach. Dr. Adams has published several papers on methods for assessing sediments and was instrumental in developing the science supporting equilibrium partitioning theory (EqP) for non-polar organic substances. Dr. Adams is a member of the EPA Science Advisory Board (SAB) and has served on SAB reviews of sediment criteria methodologies from the late 1980s through 2000. Dr. Adams coordinated industry (PRP) activities for the Ekotek Superfund site in Utah and participated in Superfund site investigations in Texas.

Paul C. Baumann, Ph.D.

Paul obtained his doctorate in zoology (river reclamation studies) from the University of Wisconsin, Madison in 1975. After a two year stint on the Hudson River with a consulting firm (Ecological Services of Texas Instruments), he became leader of the US Fish and Wildlife Service Columbus Field Research Station at The Ohio State University in 1978. Subsequent agency changes resulted in the current placement of the Field Station in the US Geological Survey. Paul is also an Adjunct Associate Professor in the School of Natural Resources; the Department of Evolution, Ecology and Organismal Biology; and the Graduate Program in Environmental Sciences at OSU.

Walter Berry, Ph.D.

Dr. Walter Berry is a Research Biologist with the United States Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division in Narragansett, Rhode Island. Dr. Berry holds a Ph.D. in Biological Oceanography from the University of Rhode Island. His research has focused primarily on the bioavailability of metals in sediments. He has also worked on the development of Equilibrium Partitioning Derived Sediment Guidelines (ESGs), and been involved in a number of navigational dredging projects.

W. Nelson Beyer, Ph.D.

Dr. Beyer is a research biologist at the Patuxent Wildlife Research Center for the Biological Resources Division of the U. S. Geological Survey. He has studied the movement of contaminants through food chains, especially the role of soils and sediments in making environmental contaminants available to wildlife. He also has experience interpreting concentrations of contaminants in wildlife tissues and the uptake of contaminants by soil organisms. Most of Dr. Beyer's work has been conducted in support of U. S. Fish and Wildlife Service activities at contaminated sites.

Todd S. Bridges, Ph.D.

Todd S. Bridges is a Research Team Leader for Ecotoxicology and Environmental Risk in the Environmental Laboratory of the U.S. Army Engineer Research and Development Center in Vicksburg, Mississippi. Todd received his B.A. and M.A. in Biology/Zoology from California State University, Fresno in 1985 and 1988, respectively. Following completion of his Ph.D. in Biological Oceanography at North Carolina State University in 1992, Todd joined the staff of the Environmental Laboratory as a Research Biologist. His research program includes study of the nature of chronic and sublethal toxicity in freshwater and marine organisms, developing assessment methods for contaminated sediments in support of the Corps' civil and military environmental missions, and developing and applying methods and modeling approaches in risk assessment. He currently chairs a working group in the International Navigation Association tasked with crafting guidance for conducting biological assessments of contaminated sediments. Todd is a member of the Ecological Society of America, the Society of Environmental Toxicology and Chemistry, and the Society for Risk Analysis.

Lawrence Burkhard, Ph.D.

Dr. Burkhard is a research chemist for the USEPA, Office of Research and Development. He specializes in investigations on the effects and behavior of persistent bioaccumulative toxicants (PBTs) in aquatic food webs. Dr. Burkhard has extensive experience with the analysis and detection of known and unknown PBTs using mass spectrometry, GC and HPLC instrumentation. He uses biologically based analytical methods for the detection and identification of unknown toxicants in environmental samples. Dr. Burkhard is an expert in modeling the behavior of PBTs in aquatic food webs.

G. Allen Burton, Jr., Ph.D.

G. Allen Burton, Jr. is the Brage Golding Distinguished Professor of Research and Director of the Institute for Environmental Quality and Ph.D. Program at Wright State University. He obtained a Ph.D. degree in Environmental Science from the University of Texas at Dallas in 1984. From 1980 until 1985 he was a Life Scientist with the U.S. Environmental Protection Agency. He was a Postdoctoral Fellow at the National Oceanic and Atmospheric Administration's Cooperative Institute for Research in Environmental Sciences at the University of Colorado. Since then he has had positions as a NATO Senior Research Fellow in Portugal and Visiting Senior Scientist in Italy and New Zealand. Dr. Burton's research during the past 20 years has focused on developing effective methods for identifying significant effects and stressors in aquatic systems where sediment and stormwater contamination is a concern. His ecosystem risk assessments have evaluated multiple levels of biological organization, ranging from microbial to amphibian effects. He has been active in the development and standardization of toxicity methods for the U.S. EPA, American Society for Testing and Materials (ASTM), Environment Canada, and the Organization of Economic Cooperation and Development (OECD). Dr. Burton has served on numerous national and international scientific committees and review panels, has had over \$4 million in grants and contracts, and over 100 publications dealing with aquatic systems.

James Chapman, Ph.D.

Dr. Chapman has a Ph.D. in Resources Management from the SUNY College of Environmental Science and Forestry, Syracuse; an M.S. in Engineering and Public Policy, Washington University, St. Louis; and a B.S. in Biology, SUNY College of Environmental Science and Forestry, Syracuse.

Dr. Chapman has 8 years experience performing and reviewing ecological risk assessments for the Superfund Division in USEPA Region 5. Some of the larger sediment sites he worked on include the Sheboygan River, WI; Pine River, MI; and Kalamazoo River, MI. He has also worked on approximately twenty smaller sediment sites. Dr. Chapman wrote two PCB congener-specific ecological risk assessments and oversaw a third.

Anne G. Fitzpatrick

Ms. Fitzpatrick received an M.S. in Marine Science from Western Washington University in 1999, and a B.S. in Geological Sciences from the University of Michigan in 1986. She has over 11 years of experience working on contaminated sediment projects. Ms. Fitzpatrick has extensive experience managing high-profile field investigation projects under a variety of regulatory programs with oversight from regulators, media, and the public. Her sediment-related project experience ranges from large-scale site investigations and pre-remedial design projects to smaller habitat and PSDDA disposal surveys, all with physical, chemical, and biological components. Prior to joining Retec, Ms. Fitzpatrick was called upon as a technical expert in sediment sampling techniques to oversee a controversial investigation project. Hands-on experience includes designing sediment traps for natural recovery evaluation, conducting amphipod toxicity tests, geologic interpretations, and use of numerous sediment sample collection devices. Diverse in nature, her projects share in common her focus on executing achievable, innovative and cost-effective investigation and cleanup approaches that meet the expected level of quality.

Nancy R. Grosso, P.G.

Nancy R. Grosso is an Environmental Consultant in DuPont's Corporate Remediation Group and has overseen environmental characterization and remedy implementation at numerous DuPont sites. She provides technical direction for the assessment and remediation of groundwater, soil, and sediment contamination projects. Ms. Grosso is the Industry Co-chair of the Sediments Action Team of the Remediation Technologies Development Forum (RTDF) and represents DuPont as a member of the Sediment Management Workgroup (SMWG). Ms. Grosso received her MS in Geophysical Sciences from the University of Chicago in 1980.

Jennifer Holder, Ph.D.

Dr. Holder is a Senior Consultant with Entrix, Inc. Dr. Holder has evaluated adverse ecological effects due to exposure to potentially toxic substances at a variety of aquatic, sediment and terrestrial sites. Her recent focus has been on assessing contaminated sediments. Currently, Dr. Holder is the Ecological Risk Assessment Task Lead for the U.S. Navy's Sediment Work Group for San Francisco Bay. The objective of the Sediment Work Group is to develop and apply a consistent, regional approach to investigating offshore sediment at Naval sites in San Francisco Bay, and identifying remedial action alternatives. As part of this effort, Dr. Holder has developed a consensus-based, weight-of-evidence approach as one risk-based tool for identifying offshore areas potentially requiring remediation.

Chris Ingersoll, Ph.D.

Chris Ingersoll is an Aquatic Toxicologist with the U.S. Geological Survey at the Columbia Environmental Research Center in Columbia, MO. He received his Bachelors (1978) and Masters (1982) from Miami University at Oxford, OH and his Doctorate (1986) from the University of Wyoming at Laramie, WY. He has conducted research over the past 16 years to develop methods for assessing the bioavailability of contaminants in sediment. Specifically, he has coordinated the development of chronic toxicity tests with amphipods that have been used to evaluate contaminated sediments in several areas including the Great Lakes, the upper Mississippi River, the Clark Fork River in Montana, and the Calcasieu Estuary in Louisiana. He has also conducted studies to field validate laboratory toxicity and bioaccumulation tests with invertebrates using the sediment quality triad. Chris has also worked with a variety of other organizations to develop sediment quality guidelines that can be used to predict the incidence of toxicity in sediments. He has also worked with ASTM and USEPA in developing standard methods for conducting toxicity and bioaccumulation tests with contaminated sediments. His research interests also include evaluating the sensitivity of threatened and endangered species to contaminants. Chris is currently the Chair of ASTM Subcommittee E47.03 on Sediment Assessment and Toxicology.

D. Michael Johns, Ph.D.

Dr. Johns received a B.S. in Biology from The Citadel, an M.S. in Zoology and a Ph.D. in Oceanography from the University of South Carolina, and an M.B.A. from the University of Rhode Island. He is a Partner in Windward Environmental LLC, located in Seattle, Washington.

Dr. Johns is an aquatic scientist specializing in aquatic ecological risk assessments, particularly those associated with contaminated sediment. The emphasis of his 25 years of professional experience has been in the effects of toxic pollutants on aquatic organisms. His study of the effects of contaminated sediment includes management and technical oversight of numerous studies in coastal and inland aquatic sites in North America and Australia. These studies have included comprehensive assessments of sediment quality and toxicity, and assessments of factors contributing to observed toxicity employing novel investigative techniques.

He participated as a principal Investigator in the joint EPA/ACOE Field Verifications Program, which was one of the first comprehensive programs to assess the impacts of contaminated sediment on aquatic species, and one of the first applications of ecological risk assessment to contaminated sediments. Dr. Johns is responsible for the management of NRDAs, RI/FSs, and other large multi-task, multidisciplinary environmental investigations, including the Lower Duwamish Waterway RI/FS, the ecological risk assessment at the Portland Harbor Superfund Site, the East Waterway RI/FS, the Grand Calumet River NRDA, Indiana; the Commencement Bay Phase I NRDA, Tacoma, WA, and two Supplementary Remedial Investigations at the Harbor Island Superfund site in Seattle. Dr. Johns has served in an advisory capacity as a technical expert in the regulatory arena. He has provided technical support for litigation for numerous clients at sites including abandoned and active mine sites, petrochemical facilities, heavy industrial sites, and ports.

Dr. Johns is a recognized expert in the use of bioassessment techniques to evaluate sediment contamination. He has been responsible for the development of several bioassays, including long-term toxicity tests designed to determine the effects of contaminated sediment on the growth and reproductive success of marine benthic species.

Rebecca L. Katers

Rebecca Leighton Katers is the Executive Director of the Clean Water Action Council, a non-profit citizens organization formed in Northeast Wisconsin in 1985 with a focus on the clean-up and prevention of toxic contamination in the Fox River, Green Bay and other area waterbodies. Ms. Katers served several years on the Citizen Advisory Committees for the Fox River and Menominee River Remedial Action Plans, for 10 years on the Citizen Advisory Committee for the Wisconsin Public Intervener Office, and for several years on two Wisconsin State advisory committees attempting to write rules for contaminated sediment management and to establish a soil criteria for PCBs (to regulate landspreading of wastes, including sediments). Ms. Katers has also been an active observer and reporter of related government and scientific committees and processes.

Michael J. Kravitz

Mr. Kravitz is the Director of EPA's Ecological Risk Assessment Support Center, located in the Office of Research and Development's (ORD) National Center for Environmental Assessment in Cincinnati, Ohio. In this position, he serves as an ORD point of contact for scientific questions that arise regarding the use or interpretation of ecological data or methods for the development of ecological risk assessments for hazardous waste sites. Previous responsibilities in other EPA offices (Office of Water and Superfund) included contributing to technical guidance on evaluating alternatives for the remediation of contaminated sediments, and co-lead of the document *Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment: Status and Needs*. Mr. Kravitz was also responsible for the EPA or EPA/Army Corps of Engineers documents *Sediment Classification Methods Compendium*; *Inland Testing Manual*; and *QA/QC Guidance for Sampling and Analysis of Sediments, Water, and Tissues for Dredged Material Evaluations*. Prior to joining EPA, Mr. Kravitz worked in the field of marine/estuarine benthic ecology at laboratories in New York, Oregon, Florida, Virginia, and Massachusetts. He received a B.S. in Biology from the State University of New York at Stony Brook, and an M.A. in Marine Science from the College of William and Mary School of Marine Science in Gloucester Point, Virginia.

Norman Meade

Mr. Meade received a B.S. in economics in 1974 from the University of Rhode Island, and completed graduate studies in environmental and natural resource economics at the University of Maryland. Since 1991, Mr. Meade has been a senior economist with the National Oceanic and Atmospheric Administration, Damage Assessment Center, in Silver Spring, MD. Major responsibilities include: estimation of damages from chronic and acute releases of oil and hazardous substances; governmental expert in natural resource damage assessment litigation; methodological research in environmental and natural resource economics.

Charles A. Menzie, Ph.D.

Dr. Menzie is founder and President of Menzie-Cura & Associates, Inc., a firm internationally recognized for its work in human health and ecological risk assessment. He has over 20 years of professional experience in the field of ecological and human health risk assessment, risk communication, and risk management. He has been involved in the development and review of risk assessment guidance, for the United States and Canada, several states, Gas Research Institute, and the Electric Power Research Institute. Dr. Menzie is a member of the National Research Council Committee on Bioavailability of Chemicals in Soils and Sediments. He is a member of the Executive Board for SETAC and has been involved in the Pellston Workshop related to sediments. Dr. Menzie has facilitated many peer reviews, workshops, and meetings related to risk assessment, ecotoxicology, soils, and sediments. His work has focused on applying weight-of-evidence approaches to the evaluation and management of contaminated soils and sediments.

Danielle Milani

Ms. Milani is a staff biologist with Environment Canada's National Water Research Institute in Burlington, Ontario, Canada. She first began working with sediment issues in 1991. Sediment studies undertaken included the building of the sediment toxicity test reference database for the Great Lakes region, laboratory testing of toxicity to benthic invertebrates from sediment contaminants in Canadian 'Areas of Concern', the evaluation of Environment Canada's *Tubifex tubifex* 28-day reproduction test as a potential test for evaluation effects from metal mining, the determination of the relative sensitivity of benthic test species to metals in spiked sediment, and the validation of Environment Canada's biological test methods for measuring sediment toxicity using *Hyalella azteca* and *Chironomus riparius*.

Currently, Ms. Milani is coordinating a five year project funded through the Great Lakes 2020 Action Plan to assess ecological impacts of contaminated sediments in Canadian Areas of Concern using the weight of evidence approach ('*Beast*'). Recently, she organized a 2-day workshop on involving a sediment decision making framework integrating different types of biological information.

Dwayne Moore, Ph.D.

Dr. Dwayne Moore has a B.Sc. in Biology from the University of Western Ontario, a M.Sc. and Ph.D. in wetland community ecology from the University of Ottawa. After graduating, he worked for six years at Environment Canada, the first two years developing environmental quality guidelines for industrial chemicals, and the last four years conducting ecological risk assessments for priority substances in Canada. He has been with the Cadmus Group for the last five years, first as a Senior Associate and then as a Principal.

Dr. Moore has considerable expertise in ecological risk assessment, the development of environmental quality guidelines and criteria, community ecology, multivariate statistics, uncertainty analysis, and analysis of toxicity data. He is currently leading the ecological risk assessment for the PCBs-contaminated Housatonic River in Massachusetts on behalf of the U.S. EPA, and is co-leading the ecological risk assessment of the Calcasieu Estuary in Louisiana also on behalf of the U.S. EPA. Dr. Moore has conducted numerous reviews of site-specific assessments including those for the PCBs-contaminated Hudson River on behalf of the U.S. EPA, potential spills of Orimulsion and Fuel Oil #6 in Tampa Bay on behalf of the U.S. EPA, and the Darlington nuclear facility on behalf of Ontario Power Corporation. Dr. Moore has led projects to assess the ecological risks of a variety of chemicals including hexachlorobenzene, chloroform, chlorinated wastewater effluents, waste crankcase oils, mercury, PCBs, and hexachlorobutadiene.

Dr. Moore has also been involved in the Environment Canada probabilistic risk assessments of ammonia and chloramines. He led the effort to update and considerably expand Environment Canada's guidelines for the conduct of ecological risk assessments of priority substances under the *Canadian Environmental Protection Act*. Dr. Moore authored the chapter on probabilistic risk assessment in *Ecological Risk Assessment and Prioritization Process* for the Department of Energy (DOE). The chapter includes state-of-the-art statistical and modeling techniques for use in higher tier assessments including: first and second order Monte Carlo analysis, variance propagation, probability bounds analysis, interval analysis and cost-benefits analysis. To illustrate these and other techniques, Dr. Moore prepared a case study that estimated the effects of methylmercury and PCBs to mink and kingfishers at a CERCLA/RCRA site near Oak Ridge, Tennessee and compared these effects to the costs and benefits of several remediation alternatives.

Dr. Moore is currently involved in projects to prepare guidance, training, and case studies for probabilistic risk assessments for several agencies including the ACC, CEFIC, pesticide companies, and the U.S. EPA Office of Pesticide Products. He recently completed a detailed evaluation of a large spatially-explicit population model (PATCH) for the U.S. EPA Office of Research and Development, and is leading the development of ambient water quality criteria for mercury for the Water Environment Research Foundation.

Dr. Moore co-chaired the Society of Environmental Toxicology and Chemistry (SETAC) Pellston conference on the use of uncertainty analysis in ecological risk assessment and co-edited the book that followed from the conference. He is currently serving on the

SETAC Pellston steering committee for Probabilistic Risk Assessments of Pesticides, and has served on a past steering committee to develop an ecological risk assessment decision support system. Dr. Moore has participated in several other Pellston workshops (e.g., assessing multiple stressors, re-evaluation of environmental quality criteria), and has participated in numerous EPA Science Advisory Panels and other EPA peer review workshops. He is a charter member of the SETAC Ecological Risk Assessment Advisory Group. Dr. Moore has been a member of the editorial board for *Human and Ecological Risk Assessment* journal since its inception and is a member of the editorial board for *Environmental Toxicology and Chemistry*.

Wayne R. Munns, Jr., Ph.D.

Dr. Munns is Associate Director for Science for the ORD NHEERL Atlantic Ecology Division (AED) and a member of EPA's Risk Assessment Forum (Eco-Risk Oversight Group). Wayne is a marine ecologist with expertise in developing and applying quantitative methods for ecological risk assessment, modeling population dynamics, and integrating ecological and human health risk assessments and research. He has conducted risk assessment research in support of Superfund and RCRA actions, and has developed methods for extrapolating population-level effects from toxicity test data. Prior to his current position, Wayne was Chief of AED's Indicator Development Branch, managing research efforts for contaminated sediments (sediment quality guidelines and toxicity identification and evaluation methods) and population risk assessment methods development. He has contributed to numerous scientific and risk management workshops, including Pellston Workshops on *Ecological Risk Assessment of Contaminated Sediment* and *Reevaluation of the State of the Science for Water Quality Criteria Development*, chaired NHEERL's 1998 international *Symposium on Research Advances in Risk Assessment*, has authored over 75 scientific papers and significant technical reports, and has instructed university and training courses in ecology and ecological risk assessment.

William “Skip” Nelson, Ph.D.

During the past 20 years, Skip has been involved in a number of different activities related to marine science. He started working in this field at the National Marine Fisheries Service Laboratory in Milford, CT, where he participated in aquaculture projects raising lobsters, scallops, and oysters. While at the Milford Lab, Skip also took part in toxicology testing with various shellfish species. From there, he moved to Rhode Island to pursue a Ph.D. at URI and began working at EPA’s Environmental Research Lab in Narragansett (now called the Atlantic Ecology Division - AED). During his tenure at AED, Skip has been involved in aquaculture activities, investigating the physiological effects of contaminants on blue mussels, and developing indicators to quantify both organism and ecosystem health. Relative to contaminated sediments, he has worked cooperatively with EPA Region I and the Army Corps of Engineers during the past 15 years to design and implement numerous monitoring programs at the New Bedford Harbor, MA, Superfund site. These monitoring activities include assessing the effects of operational dredging as well as long-term monitoring to assess the overall effectiveness of remediation.

Danny D. Reible, Ph.D.

Dr. Reible is Chevron Professor of Chemical Engineering at Louisiana State University and Director of the Hazardous Substance Research Center/South & Southwest, a consortium of Louisiana State University, Rice University and Georgia Tech. The Center is part of a national program of research and outreach centers supported with competitively awarded core funding from the US Environmental Protection Agency. The South and Southwest Center is the only one of the national centers with a focus on the engineering management of contaminated sediments. The Center also supports technology transfer and outreach programs to disseminate research results and information on a variety of hazardous substance issues.

Dr. Reible has been active in both research and policy implications of the assessment and in-situ remediation of contaminated sediments and regularly advises industry and regulatory bodies on management approaches to contaminated sediments. He served on the National Research Council Committee on PCB contaminated sediments and currently serves on the National Research Council Committee for Remediation of Navy Sites. He recently provided Congressional testimony before the U.S. House Subcommittee on Water Resources and the Environment on strategies for the management of contaminated sediment sites. He is the recipient of the Lawrence K. Cecil Environmental Division Award of the American Institute of Chemical Engineers for 2001.

Dr. Reible joined Louisiana State University after receiving a Ph.D. in Chemical Engineering in 1982 from the California Institute of Technology. He was promoted to Professor in 1992. He was Shell Professor of Environmental Engineering at the University of Sydney, Australia between 1993 and 1995, returning to LSU as Director of the Hazardous Substance Research Center in late 1995. In 1986 he was awarded the New Engineering Educator Excellence Award by the American Society of Engineering Education, and, in 1987, an Environmental Science and Engineering Fellowship by the American Association for the Advancement of Science. In 1991 he was a Senior Visitor to the Department of Applied Mathematics and Theoretical Physics at Cambridge University. He was an invited guest of the Institute of Experimental Meteorology in Obninsk, Russia in 1988 and again in 1995. In 2002 he was awarded the Charles E. Coates Award, a joint award of the Baton Rouge Sections of the American Chemical Society and American Institute of Chemical Engineers. He has served as an external reviewer of Environmental Engineering programs in Australia and Singapore. He is the author of the textbooks, "Fundamentals of Environmental Engineering" and "Diffusion Models of Environmental Transport," and more than 100 technical papers and reports.

Randy Sturgeon

Randy Sturgeon has worked as a Superfund RPM for over 13 years in EPA Region 3. Prior to EPA, he worked in the private chemical industry, beginning with Dow Chemical, after obtaining his B.S. in chemical engineering at Louisiana State University. He has managed Superfund sites with a wide variety of cleanups including a large environmental hazard remediation project at the DuPont-Newport site in Delaware and a lead cleanup in a public housing project in Portsmouth, Virginia. He was named EPA's National RPM of the Year in 2000 and is a member of EPA's Contaminated Sediment Technical Advisory Group.

Theodore Tomasi, Ph.D.

Dr. Tomasi received his Ph.D. in Economics from the University of Michigan in 1983; his M.A. in Economics from the University of Colorado in 1979; and a B.A. in Environment and Public Policy from the University of Colorado in 1978. Dr. Tomasi specializes in natural resource economics, benefit-cost analysis, and natural resource damage assessment (NRDA). Dr. Tomasi, a natural resource economist with over 20 years of professional experience, is a nationally-recognized expert in his field. His research primarily has been directed to the measuring the value of natural resources and environmental change, and analyzing the impact of risk and uncertainty on natural resource value and use. Dr. Tomasi is experienced in the development and application of state-of-the-art valuation methods in benefit-cost analysis, NRDA and other settings, and has provided expert testimony and litigation support for several clients. Prior to joining ENTRIX, Dr. Tomasi was a Principal of Environmental Economics Research Group. He has served on the faculties of the University of Minnesota, University of Michigan, Michigan State University, and University of Delaware. He is the author of more than 25 journal articles and book chapters.

Katherine von Stackelberg

Ms. von Stackelberg holds a B.A. from Harvard College, an M.S. from the Harvard School of Public Health Environmental Science and Risk Management program, and is currently completing her Sc.D. at the Harvard School of Public Health.

Ms. von Stackelberg is the team leader for the quantitative modeling group at Menzie-Cura & Associates, Inc. She specializes in identifying and characterizing adverse effects associated with exposure to hazardous substances in the environment using statistical and spreadsheet modeling data analyses. Peer-reviewed publications include journal articles on the advantages of using probabilistic methodologies, such as Monte Carlo simulations, in risk analyses. She has authored and co-authored numerous consulting reports related to the quantification of multimedia exposures and risks and has presented papers at numerous conferences. Topics have included: the influence of gas-particle partitioning on exposures to heavy organic carcinogens, a composite risk index approach for the assessment of risks from municipal solid waste landfill gas contaminants, air pathway exposures and health risks of processing incinerator ash, and on the use of risk assessment in environmental impact statements in developing countries.

She was the technical lead and Project Manager in developing a probabilistic food chain model, FISHRAND, for the Hudson River RI/FS. The work included developing a joint distributional analysis in which exposure concentrations and effects concentrations were expressed as probability distributions to quantify population-level effects. She is also the technical lead and Project Manager under a series of projects for the Army Corps of Engineers evaluating sources of uncertainty and variability and how they might be addressed in the management of dredged materials. These projects have included evaluating and ranking sources of uncertainty contributing to ecological risk assessment, a quantitative evaluation of sources of uncertainty in trophic transfer, and the development of *TrophicTrace*, a tiered spreadsheet tool to quantify potential human health and ecological risks via fish ingestion associated with dredged materials.