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Charles Menzie, Ph.D.

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Professional Profile

Dr. Menzie specializes in the application of risk assessment and causal analysis methods for evaluating the potential for effects and for diagnosing the causes of environmental harms and damages. His technical expertise includes the evaluation of the environmental fate and effects of physical, biological, and chemical stressors on terrestrial and aquatic systems.

Dr. Menzie has applied his expertise to situations involving nutrient enrichment, chemical contamination, use of pesticides and other chemical products, oil and gas operations, fossil fuel and nuclear power plants, alternative energy projects, mining, invasive species, water management, and vulnerability assessments for climate change. He has a working knowledge on how to approach these issues within the appropriate national and international policy and regulatory frameworks.

Having worked in the environmental field for close to 40 years, Dr. Menzie has had wide geographic experience. This includes all geographic regulatory jurisdictions in the United States (e.g., U.S. EPA Regions) and Canada (provinces). He has also worked in South America (Ecuador, Colombia, Argentina and Uruguay), the middle east (Yemen), the South China Sea, the Indian Ocean (Diego Garcia), and Australia. Dr. Menzie has served as the Global Executive Director of the Society of Environmental Toxicology and Chemistry (SETAC) with provides him with a broad perspective of ecotoxicological and risk assessment matters on chemicals on a world-wide basis.

Dr. Menzie has provided his ecological and environmental expertise on issues in a diversity of environments. These include most coastal areas of the United States, major river systems of North and South America, freshwater lakes, forest ecosystems of California, rainforests of Ecuador, salt and other marshes of the east and Gulf coasts, the Atlantic outer continental shelf and slope off North America, deep water environs off Hawaii and Puerto Rico, the desert island atoll of Diego Garcia, and the Yemen desert.

Dr. Menzie has extensive experience with polychlorinated biphenyls (PCBs), per- and polyfluoroalkyl substances (PFAS), polycyclic aromatic hydrocarbons (PAHs), chlorinated pesticides, commercial biocides, and metals with an emphasis on lead, chromium, arsenic, cadmium, and nickel. As part of his risk assessment practice, he has developed exposure and food web models to evaluate how people and ecological receptors may be exposed to these chemicals. These include several spatially-explicit models used to refine exposure estimates. Dr. Menzie has also worked on nutrient enrichment issues related to nitrogen and phosphorus.

Academic Credentials & Professional Honors

Ph.D., Biology, City University of New York, 1978

M.A., Biology, City University of New York, 1973

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B.S., Biology, Manhattan College, 1971

Risk Practitioner Award from the Society of Risk Analysis

Fellow of the Society of Risk Analysis

Fellow of the Society of Environmental Toxicology and Chemistry

Lifetime Achievement Award from the Association for Environmental health of Soils

Champion Award for Women's Council on Energy and the Environment

Dr. Menzie has been called upon to lead and/or participate in numerous peer-review panels and workgroups on behalf of government and industry

Licenses and Certifications

40-Hour Hazardous Waste Operation and Emergency Response Certification (HAZWOPER)

8-Hour HAZWOPER Managers and Supervisor Training

Prior Experience

Principal and President, Menzie-Cura & Associates, Inc., 1983-2006

Manager of Environmental Services Department, EG&G Environmental Consultants, 1976-1983

Lecturer, Boston University and University of Lowell, 1978-1993

Patents

U.S. Patent # 7,824,129: A Low-Impact Delivery System for In-Situ Treatment of Contaminated Sediment.

Publications

Menzie, CA, Guiney PD, Belanger SE, Lee KC, Arts G, Opeolu BO, Silva de Assis HC. 2024. Incorporating a weight-of-evidence approach into a tiered assessment for chemicals management, with emphasis on program development and applications on program development and applications in developing countries and emerging economics. Integrated Environmental Assessment and Management. Published online 16 August 2024. https://doi.org/10.1002/ieam.4986.

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Menzie CA, Kane-Driscoll S, Thompson T. Integrating Passive Sampling Methods into Management of Contaminated Sediment Sites: A Guide for Department of Defense Remedial Project Managers 2016: ESTCP Project ER-201216

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Menzie C, Deardorff TL, Ma J, Edwards M. Risk factors that contribute to the occurrence of catastrophic wildfires in California. World Environmental and Water Resources Congress 2015; 2617-2626.

Greenberg MS, Chapman PM, Allan IJ, Anderson KA, Apitz SE, Beegan C, Bridges TS, Brown SS, Cargill IV JG, McCulloch MC, Menzie CA, Shine JP, Parkerton TF. Passive sampling methods for contaminated sediments: Risk assessment and management. Integrated Environmental Assessment and Management 2014 April; 10(2):224-236.

Staveley J, Law S, Fairbrother A, Menzie C. A causal analysis of observed declines in managed honey bees (Apis mellifera). Human and Ecological Risk Assessment 2014; 20:566-591.

Gilmour CC, Riedel GS, Riedel G, Kwon S, Landis R, Brown SS, Menzie CA, Ghosh U. Activated carbon mitigates mercury and methylmercury bioavailability in contaminated sediments. Environmental Science and Technology 2013, in press. DOI: 10.1021/es4021074.

Salatas JH, Gard NW, Wickwire TW, Menzie CA. Stressor analysis approaches for endangered species assessments. Natural Science 2013; 5:27-35.

Richkus WA Menzie CA. Application of an ecological risk assessment for evaluation of alternatives considered for restoration of oysters in Chesapeake Bay: Background and approach. Human and Ecological Risk Assessment 2013; 19(5):1172-1186.

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Landis WG, Durda JL, Brooks ML, Chapman PM, Menzie CA, Stahl RG Jr, Stauber JL. Ecological risk assessment in the context of global climate change. J Environ Toxicol Chem 2013 Jan; 32(1):79-92. doi:

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Menzie CA, Deardorff T, Booth P, Wickwire T. Refocusing on nature: Holistic assessment of ecosystem services. Integr Environ Assess Manag 2012 Jul; 8(3):401-411. doi: 10.1002/ieam.1279. Epub 2012 Jun 5.

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Gard N, Fairbrother A, Menzie C. A causal analysis framework for informing endangered species jeopardy reviews. ACS Meeting, Denver, CO, 2011.

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Magar VS, Wenning RJ, Menzie C, Apitz SE. Parsing ecological impacts in watersheds. Journal of Environmental Engineering 2006; 132(1):1-3.

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Bridges TS, Berry WJ, Della Salla S, Dorn PB, Ells SJ, Gries TH, Ireland DS, Maher EM, Menzie CA, Porebski LM, Stronkhorst J. A framework for assessing and managing risks from contaminated sediments. Chapter 6. In: Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. Wenning RJ, Batley GE, Ingersoll CG, Moore DW (eds), Society of Environmental Toxicology and Chemistry (SETAC), 2005.

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Wickwire WT, Menzie CA, Burmistrov D, Hope BK. Incorporating spatial data into ecological risk assessments: The Spatially Explicit Exposure Module (SEEM) for ARAMS. In: Landscape Ecology and Wildlife Habitat Evaluation: Critical Information for Ecological Risk Assessment, Land-Use Management Activities, and Biodiversity Enhancement Practices. ASTM STP 1458. Kapustka LA, Galbraith H, Luxon M, Biddinger GR (eds). ASTM International, West Conshohocken, PA, 2004.

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Goodfellow WL, Menzie C, Masure-Slowey Y. Is manure a RCRA Solid Waste? SETAC 36th Annual Meeting, Salt Lake City, UT, November 2015.

Kashuba R, Menzie C, Cerreto K, Palmquist K, Kessel C. Challenges in deriving causal relationships from field observational data: A case study in West Virginia headwaters. Presented at the Session: Bayesian Networks and Other Probabilistic Methods Applied to Ecological Risk, at the Society for Risk Analysis (SRA) 2014 Annual Meeting, Denver, CO, December 10, 2014.

Kashuba R, Cerreto K, Palmquist K, Kessel C, Menzie C. Cautions for deriving causal relationships and water quality benchmarks from field observational data: A case study in West Virginia headwaters. Presented at the Session: Assessing Contaminant Effects in Multi-stress Ecosystems, at the Society of Environmental Toxicology and Chemistry (SETAC) North America 35th Annual Meeting, Vancouver, BC, Canada, November 9-13 2014.

Menzie C, Fairbrother A. Employing weight-of-evidence approaches: a journey from Massachusetts to British Colombia. Platform presentation, SETAC North America 34th Annual Meeting, Nashville TN, November, 2013.

Semenova S, Deardorff T, Menzie C. Environmental damages associated with wildland fires. Platform presentation TP197, SETAC North America 34th Annual Meeting, Nashville TN, November, 2013.

Driscoll S, Menzie C, Ghosh U, et al. Sediment bioavailability initiative: Development of standard methods for the use of passive samplers in management of contaminated sediment. Poster presentation WP143, SETAC North America 34th Annual Meeting, Nashville TN, November, 2013.

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Menzie C, Deardorff T, Ma J, Edwards M. California's catastrophic wildland fires: Increasing the risks of burning hotter, faster, and higher. Poster presentation, SETAC North America 33rd Annual Meeting, Long Beach, CA, November 11-15, 2012.

Menzie C, Ziccardi L, Lowney Y. Examining the fate and effects of vanadium in light of the USEPA Framework for Metals Risk Assessment. Poster presentation, SETAC North America 33rd Annual Meeting, Long Beach, CA, November 11-15, 2012.

Menzie C, Kashuba R. A conceptual model for cumulative risk analysis using CVD as an example. Presented at the U.S. Environmental Protection Agency (EPA) Methods Workshop to Integrate Chemical

and Non-Chemical Stressors in Cumulative Risk Assessment (CRA): Cardiovascular Disease (CVD), EPA Laboratories. Research Triangle Park, NC, November 26-27, 2012.

Menzie CA, Ghosh U. Monitoring the efficacy and potential environmental effects of in situ remediation. Platform presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13-17, 2011.

Kierski M, Morrison AM, Kane Driscoll S, Menzie CA. A multi-site model to estimate the toxicity of PAH-contaminated sediments at mgp sites. Platform presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13-17, 2011.

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McArdle M, Fairbrother A, Kane Driscoll S, Menzie C. Guidance for a weight-of-evidence approach to ecological risk assessments in British Columbia. Poster presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13-17, 2011.

Wickwire T, Menzie C, Cantor R. Multi-disciplinary and multi-scale climate change vulnerability assessment and response. Poster presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13-17, 2011.

Deardorff T, Menzie C, Ma J, Salatas J, Wickwire T, McArdle M, Pryke D. The first international environmental decision by The World Court on paper mill impacts. Poster presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13-17, 2011.

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Gard N, Fairbrother A, Menzie C. A causal analysis framework for informing endangered species jeopardy reviews. ACS Meeting, Denver, CO, 2011.

Menzie CA, Luthy R. Contaminated sediments: New tools and approaches for in-situ remediation - Session III. Sponsored by National Institute of Environmental Health Sciences, Superfund Research Program, January 19, 2011. Presentation recorded and available through NIEHS, at http://www.clu-in.org/conf/tio/sediments3_011911/.

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Menzie CA. Perspectives on the application of ecological services. Presented at SETAC North America Meeting, Abstract 693, Portland OR, November 2010.

Fairbrother A, Menzie C. Integrated exposure analysis for human health and ecological risks at contaminated site. Presented at the Society of Environmental Toxicology and Chemistry Annual Conference, Portland, OR, November 2010.

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