

**Charles A. Menzie, Ph.D.**  
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### **Professional History**

Global Executive Director for Society of Toxicology and Chemistry: 2014 – Present

Owner of Sediment Solutions LLC: 2011 - Present

Principal and Former Practice Director at Exponent, Inc.: 2006 – Present

Owner of Menzie-Cura & Associates, Inc: 1983 – 2006

Department Head at EG&G Environmental Consultants: 1975 – 1983

**Adjunct Professorships** (developed and implemented courses on risk assessment of chemicals, ecology, and oceanography)

University of Massachusetts, Lowell Massachusetts

Boston University, Boston Massachusetts

University of Maryland, Baltimore County, Maryland

### **Overview of Professional Activities**

Dr. Charles A. Menzie serves as The *Society of Environmental Toxicology and Chemistry's* (SETAC's) Global Executive Director. In that capacity, he oversees global initiatives and activities of the society. This includes global aspects of the societies Geographic Units (GUs), Global Partners and Affiliates, science programs, and journals. Dr. Menzie also maintains a consulting practice. Dr. Menzie brings to SETAC managerial business experience from forming and running companies, academic experience from serving as an adjunct professor at three universities, and government experience as a past elected official for a municipal Board of Health. He has been a member of SETAC for over thirty years. Dr. Menzie's technical expertise is aligned with the scientific initiatives of SETAC. These include projects throughout the Americas and around the globe.

With regard to research, consulting, and education experience, Dr. Menzie's primary area of expertise is the fate and environmental health effects of physical, biological, and chemical stressors on terrestrial and aquatic systems. This includes work on chemicals in the environment, oil and gas operations, fossil fuel and nuclear power plants, alternative energy projects, invasive species, agriculture, and climate change impacts. Dr. Menzie has worked at

more than 100 hazardous waste sites, including many high-profile Superfund Sites and NRDA-related cases. He has evaluated environmental damage claims related to the use of pesticides, herbicides, and other chemicals. He has provided expertise related to the environmental implications of atmospheric emissions and of point and nonpoint sources of nutrients and toxic chemicals to aquatic and marine environments (through Total Maximum Daily Loads or TMDL programs). Dr. Menzie has worked on a broad range of contaminants, including solvents (TEC, PCE, TCA, and others), persistent chlorinated compounds such as PCBs, dioxins, and pesticides, as well as hydrocarbons including PAHs, cyanides, and metals such as lead, hexavalent chromium, mercury, and cadmium. Dr. Menzie has worked in all EPA Regions, including the Midwest and South (Regions 4, 5, and 6), the Northeast and East Coast (Regions 1, 2, and 3), and the West (Regions 8, 9, and 10). He has an active international practice including projects in Ecuador, Uruguay, Kuwait and Yemen. He is the co-inventor of SediMite™, a low-impact method for remediating contaminated sediments.

Dr. Menzie is one of the leaders in the field of risk assessment and is recognized for his work on developing and applying weight-of-evidence methodologies. He has participated in the development and application of causal analyses methods to identify sources of toxicity and other ecological effects in the environment. Dr. Menzie was awarded the Risk Practitioner Award by the Society for Risk Analysis and the Lifetime Achievement Award from the Association for the Environmental Health of Soils. He has served on the Global Councils of SRA and SETAC. Dr. Menzie has led numerous peer reviews for industry and government. He has taken the lead in developing guidance documents for industry and government and has focused on methods that are workable and acceptable to a broad range of parties. He has developed and applied a formal causal-analysis methodology for assessing causation in cases of environmental impairment and contributions of chemical contamination. He was one of the committee members to draft the ASTM Standard for risk-based corrective action (RBCA) for chemical release sites and extended that standard to ecological considerations. He served on the National Research Council's Committee on Bioavailability of Chemicals in Soils and Sediments.

Dr. Menzie has extensive experience on the development of monitoring programs for freshwater, estuarine, and offshore systems. Examples include the Ocean Thermal Energy Conversion Program, Boston Harbor monitoring program, ocean waste disposal programs, and the design of the optimum mix of monitoring systems.

AT SETAC, Dr. Menzie serves as the Global Executive Director. He focuses much of his time on SETAC's Geographic Units in Africa, Latin America, and Asia-Pacific. He is responsible for program development including collaborations with organizations such as the United Nations and Society of Risk Analysis. Dr. Menzie serves as a mentor and educator and has organized training programs for students and practitioners in all parts of the world. Dr. Menzie has testified as an expert before the International Court of Justice, U.S. Supreme Court, and many other venues.

### **Academic Credentials and Professional Honors**

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

M.A., Biology, City College of New York, 1974

B.S., Biology, Manhattan College, 1971

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## **Licenses and Certifications**

OSHA Certified Eight-Hour HAZWOPER Annual Refresher Training in Hazardous Waste Operations and Emergency Response, updated annually; OSHA Certified 40-Hours of Training in Hazardous Waste Operations and Emergency Response

## **Patents**

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

## **Publications**

Patmont C, Ghosh U, LaRosa, P, Menzie C et al. In situ sediment treatment using activated carbon: A demonstrated sediment cleanup technology. *Integrated Environmental Assessment and Management* 2015; 11: 195-207.

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.

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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.

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.

Menzie CA Salatas, JH Wickwire TW. Ecological risks associated with oyster restoration options for Chesapeake Bay. *Human and Ecological Risk Assessment* 2013; 19(5):1204–1233.

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: 10.1002/etc.2047.

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.

Gard NW, Menzie CA. A causal/risk analysis framework for informing endangered species jeopardy reviews for pesticides. Chapter 11. In: *Pesticide Regulation and the Endangered Species Act*, ACS Symposium Series No. 1111, 2012. Published online: <http://pubs.acs.org/isbn/9780841227033>

Cantor R, Menzie C. Seeing the forest through the trees: NRD and dynamic ecosystems. *ABA Toxic Torts and Environmental Law Committee Newsletter Winter 2012*.

Menzie CA, Cantor R, Boehm P. Business planning for climate change: Identifying vulnerabilities and planning for changes in water, temperature, sea level, natural resources, health effects, and extreme events. *Environmental Claims Journal* 2011; 23(3-4):190-198.

Ghosh U, Luthy RG, Cornelissen G, Werner D, Menzie CA. In-situ sorbent amendments: A new direction in contaminated sediment management. *Environmental Science and Technology* 2011; 45:1163-1168.

Kane Driscoll SB, McArdle ME, Menzie CA, Reiss M, Steevens JA. A framework for using dose as a metric to assess toxicity of fish to PAHs. *Ecotoxicology and Environmental Safety* 2010; 73:486-490.

Wenning RJ, Finger SE, Guilhermino L, Helm RC, Hooper MJ, Landis WG, Menzie CA, Munns Jr, WR, Römbke J, Stahl Jr., RG. Global climate change and environmental contaminants: A SETAC call for research. *Integrated Environmental Assessment and Management* 2010; 6(2):197-198.

Wickwire T, Menzie CA. The causal analysis framework: Refining approaches and expanding multidisciplinary applications. *Human and Ecological Risk Assessment* 2010; 16(1).

Menzie CA, Ziccardi LM, Lowney YW, Fairbrother A, Shock SS, Tsuji JS, Hamai D, Proctor D, Henry E, Su SH, Kierski MW, McArdle ME, Yost LJ. Importance of considering the framework principles in risk assessment for metals. *Environmental Science and Technology* 2009; 43(22):8478-8482.

Kane Driscoll SB, Amos CB, McArdle ME, Menzie CA, Coleman A. Predicting sediment toxicity at former manufactured gas plants using equilibrium partitioning benchmarks for PAH Mixtures. *Soil & Sediment Contamination* 2009; 18(3):307-319.

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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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Shatkin JA, Wagle M, Kent S, Menzie CA. Development of a biokinetic model to evaluate dermal absorption of polycyclic aromatic hydrocarbons from soil. *Human and Ecological Risk Assessment* 2002; 8(4):713–734.

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Menzie CA. Implementing risk management at manufactured gas plant sites. *Soil Groundwater Cleanup* 1997 Aug/Sept; 12–18.

Menzie CA, Freshman JS. An assessment of the risk assessment paradigm for ecological risk assessment. *Human and Ecological Risk Assessment* 1997; 3(5):853–892.

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Callahan CA, Menzie CA, Burmaster DE, Wilborn DC, Ernst T. On-site methods for assessing chemical impact on the soil environment using earthworms: A case study at the Baird & McGuire Superfund Site, Holbrook, MA. *Environmental Toxicology & Chemistry* 1991; 10(6):817–826.

Burmaster DE, Menzie CA, Freshman JS, Burris JA, Maxwell NI, Drew SR. Assessment of methods for estimating aquatic hazards at Superfund-type sites: A cautionary tale. *Environmental Toxicology & Chemistry* 1991; 10(6):827–842.

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Menzie CA. Contamination control can be cost effective. *Industry Magazine* 1982 Aug; 19–22.

Menzie CA. The environmental implications of offshore oil and gas activities: An overview of the effects of routine discharges based on the American experience. *Environmental Science and Technology* 1982; 16(8):454A–472A.

Maurer D, Leathem W, Menzie CA. Macrobenthic invertebrates from the Mid-Atlantic continental shelf. *Int Rev der Ges Hydrobiol* 1982; 67(4):491-515.

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Menzie CA. Growth of the aquatic plant *Myriophyllum spicatum* in a littoral area of the Hudson River Estuary. *Aquatic Botany* 1979; 6:365-375.

Mulligan HF, Menzie CA. How to prepare environmental reports for drilling on the OCS (outer continental shelf). *Oil and Gas Journal* 1978; 86–87.

### **Books and Book Chapters**

Welt M, Anderson EL, Menzie CA. Changing perspectives on chemical product risks. Chapter 9. In: *Product Liability*. RA Cantor (ed), published through the American Bar Association, 2010.

Menzie CA, Booth P, Law SA, von Stackelberg K. Use of decision support systems to address contaminated coastal sediments: Experience in the United States. In: Decision Support Systems for Risk-Based Management of Contaminated Sites. Marcomini A, Suter II GW, Critto A (eds), Springer Verlag, 2009.

Menzie C, Bettinger N, Fritz A, Kaputcka L, Regan H, Moller V, Noel H. Population protection goals. In: Population-Level Ecological Risk Assessment. Barnthouse et al (eds), Society of Toxicology and Chemistry, Taylor and Francis, 2007.

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.

Lanno R, Menzie CA. Risk assessment of cyanide in water and soil. Chapter 17. In: Cyanide in Water and Soil: Chemistry, Risk, and Management. Dzombak DA, Ghosh RS, Wong-Chong GM (eds), CRC Press/Lewis Publishers, Boca Raton, FL, 2005.

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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Gaudet CL, Menzie CA, Ouellet S. Risk-based assessment of soil contamination: Generic versus site-specific approaches. Chapter 12. pp. 203–219. In: Environmental Analysis of Contaminated Sites. Sunahara GI, Renoux AY, Thellen C, Gaudet C, Pilon A (eds), John Wiley & Sons Ltd., 2002.

Cura, JJ, Kane Driscoll SB, Lacey R, McArdle M, Menzie CA. Assessing ecological risks of PAH-contaminated sediments. In: Sediments Guidance Compendium. Electric Power Research Institute (EPRI), Palo Alto, CA, 2001.



Menzie CA, Heiger-Bernays WJ, Montgomery CR, Linz DG, Nakles DV. Development of an ecological risk assessment framework based on contaminant availability. In: *Ecotox—Environmental Contaminants through the Macroscope*. Wuerz Publishing Ltd., Winnipeg, MB, Canada, 1996.

Menzie CA. Perspectives on sediment risk analysis for hazardous waste sites. Proceedings, 22nd Pellston Conference Workshop, Sediment Risk Assessment. SETAC Special Publication, Pacific Grove, 1996, April 23–28, 1995.

Menzie CA. Work group summary report for site clean-up decisions. Chapter 6. Proceedings, 22nd Pellston Conference Workshop, Sediment Risk Assessment, SETAC Special Publication, Pacific Grove, 1995, April 23–28, 1995.

Cura JJ, Mariani G, Ketchum C, Gillmor R, Menzie C, Curtis W, Tuholke B. Site-selection criteria for deep ocean disposal of low-level radioactive wastes. Volume 3, *Marine Waste Management: Science and Policy*. pp. 177–185. In: *Oceanic Processes in Marine Pollution*. Champ M, Park K (eds), Kreiger Publishing Co., Melbourne, FL, 1989.

Menzie CA, Cura J, Gillmor R, Magnell B, Mariani G, Bartholomew T, Gardner W, Smith W. The optimum mix of pollution-monitoring platforms: Deepwater Dumpsite-106 Case Study. Volume 3 - *Marine Waste Management: Science and Policy*. pp. 260–276. In: *Oceanic Processes in Marine Pollution*. Champ M, Park K (eds), Kreiger Publishing Co., Melbourne, FL, 1989.

Nocito JA, Walker HA, Paul JF, Menzie CA. Application of a risk assessment framework for marine disposal of sewage sludge at mid-shelf and off-shelf sites. Proceedings, 11th ASTM Symposium by American Society for Testing and Materials, Philadelphia, PA, 1986

Gillmor RB, Menzie CA, Mariani GM, Levin D, Ayers RC, Sauer TC. . Effects of exploratory drilling discharges on the benthos. Volume 4, *Energy Wastes in the Ocean*. pp. 244–257. In: *Wastes in the Ocean*. Duedall IW, Kester DR, Park PK (eds), Wiley Interscience Publications, John Wiley & Sons, New York, NY, 1985.

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Menzie CA, Maurer D, Leathem W. An environmental monitoring study to assess the impact of drilling discharges in the Mid-Atlantic. IV. The effects of drilling discharges on the benthic community. In: *Research of Environmental Fate and Effects of Drilling Fluids and Cuttings*, 1980.

## **Proceedings, Conferences, and Symposia**

Patmont C, Ghosh U, Menzie C, LaRosa P, Quadrini J, Cornelissen G, Collins J, Hjartland T. In situ sediment immobilization treatment: A demonstrated sediment cleanup technology. 7<sup>th</sup> Battelle Sediment Management Conference, Dallas, TX, February 7, 2013.

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 33<sup>rd</sup> 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 33<sup>rd</sup> 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.

Morrison AM, Kane Driscoll S, McArdle M, Menzie CA. Integrated environmental benefit analysis of sediment remediation thresholds. Platform presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13–17, 2011.

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.

Menzie C, Deardorff. Considerations for assessing the status of ecosystem services following the 2007 Grass Valley Wildland Fire: Thinking historically. Poster presentation, SETAC North America 32nd Annual Meeting, Boston, MA, November 13–17, 2011.

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/](http://www.clu-in.org/conf/tio/sediments3_011911/).

Menzie C, Cantor R, Boehm P, Bailey JR. An approach to business vulnerability and risk assessments related to climate change. Paper presented at the Society of Petroleum Engineers International Conference on Health, Safety and Environment in Oil and Gas Exploration and Production, Rio de Janeiro, Brazil, April 12–14, 2010.

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.

Menzie CA. Health and environmental risks of CO<sub>2</sub> sequestration in geological formations. Special Lecture at Lehigh University, March 4, 2010.

O'Reilly KT, Menzie CA. Endangered Species: Chemicals, places, and climate change. ABA Environmental Law Conference, Salt Lake City, UT, March 18–20, 2010.

Menzie CA, Booth P, Saba T. PCB Update: What's new, what you need to know, and why. Exponent Webinar, March 31, 2010. Available at [www.exponent.com/webinars](http://www.exponent.com/webinars).

Menzie CA. Ecological implications of biofuels for the Chesapeake Bay Region. Presented at the Annual Meeting of the Society of Toxicology, Baltimore MD, March 15–19, 2009.

Menzie C, Henry B, Bigham G. Managing Contaminated Sediments: A Fresh Look. Exponent Webinar March 3, 2009. Available at: [www.exponent.com/webinars](http://www.exponent.com/webinars).

Menzie CA. Combining engineering and biology in a low-impact in-situ treatment and capping for sediments: applications to sites contaminated with PAHs, PCBs, and mercury. RemTec Summit, March 3–5, 2009.

Cantor R, Menzie C. Vulnerabilities and risk exposures from climate and related changes. American Bar Association 38th Annual Conference on Environmental Law, Keystone C, March 12–15, 2009.

Menzie C, Kierski M. Begin with a vision: Integrating assessment, remediation, and NEBA within management goals. 30th Annual Meeting, Society of Environmental Toxicology and Chemistry, New Orleans, LA, November 2009.

Kane Driscoll S, McArdle M, Menzie C. Assessing risk of metals in sediment: Experience in applying the weight-of-evidence approach to aquatic sites contaminated with heavy metals. Sediment Management Work Group Spring Sponsor Forum, Kalamazoo, MI, April 29–30, 2008.

Kane Driscoll SB, Amos CB, McArdle ME, Menzie CA, Coleman AJ. Use of site-specific equilibrium partitioning benchmarks for polycyclic aromatic hydrocarbon mixtures to predict the toxicity of sediment at former manufactured gas plants. 28th Annual Meeting of SETAC North America, Milwaukee, WI, November 11–15, 2007.

Kierski M, Menzie C, Carroll C. Dinitrotoluene and Di-n-butylphthalate exposure and effects evaluation for birds at Badger Army Ammunition Plant. 28th Annual Meeting of SETAC North America, Milwaukee, WI, November 11–15, 2007.

Kierski M, Menzie C, Ferguson E. Soil lead risk for grit ingesting birds: A simple methodology to estimate the number of grit size lead particles in soils and sediment. 28th Annual Meeting of SETAC North America, Milwaukee, WI, November 11–15, 2007.

Wickwire WT, Menzie CA, Burmistrov D. Enhancing the realism of wildlife exposure modeling: An introduction and demonstration of the Spatially Explicit Exposure Model (SEEM). In: An Introduction to the Terrestrial Wildlife Exposure Model (TWEM) and the Spatially Explicit Exposure Model (SEEM). Johnson MJ, Sample BE, Wickwire WT, and Kapustka LA (eds.). SETAC 2004 Short Course Instructor. Society of Environmental Toxicology and Chemistry (SETAC) 4th World Congress and 25th Annual Meeting, Portland, OR, November 14–18, 2004.

Wickwire WT, Menzie CA, Burmistrov D, Johnson MS. Applying a spatially explicit wildlife exposure model to improve remedial efficiency: The SEEM case study (Abstract/Poster Presentation). Annual International Conference on Soils, Sediments and Water, University of Massachusetts, Amherst, MA, October 18–21, 2004.

Kane Driscoll SB, McArdle ME, Menzie CA, Coleman A. Application of sediment quality guidelines of PAHs to manufactured gas plant sites. Presented at the 23rd Annual Meeting of SETAC North America, Salt Lake City, UT, November 16–20, 2002.

Menzie CA, Cura JJ, Kane-Driscoll S, Lacey R, McArdle M. Assessing ecological risks of PAH-contaminated sediments. Proceedings, International Conference on Remediation of Contaminated Sediments, Venice, Italy, October 10–12, 2001. Battelle Press, Columbus, OH.

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### **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, Developed and presented graduate-level courses on Risk Assessment, Marine Pollution, and Environmental Science, 1978-1993

### **Current Academic Appointments**

- Adjunct Professor, University of Maryland at Baltimore County

### **Editorships and Editorial Review Boards**

- Associate Editor, *Human and Ecological Risk Assessment*, 2003–present
- Associate Editor, Environmental Science and technology

### **Professional Affiliations**

- Society for Risk Analysis
- Society of Environmental Toxicology and Chemistry
- Estuarine Research Federation
- Association for the Environmental Health of Soils
- ASTM