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Engineering & Scientific Consulting

## 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) which 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

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>.

Kashuba R., Menzie C., Martin, L. (2021). Risk of cardiovascular disease is driven by different combinations of environmental, medical and behavioral factors: Building a conceptual model for cumulative risk assessment. *Human and Ecological Risk Assessment: An International Journal* 27, no. 7: 1902-1925.

Menzie CA, Kashuba RO, Goodfellow WL. Implications of sample size, rareness, and commonness for derivation of environmental benchmarks and criteria from field and laboratory data. *Ecotoxicol Environ Saf* 2020; 190: 110 – 117.

Taylor AA, Tsuji JS, Garry MR, McArdle ME, Goodfellow WL, Adams WJ, Menzie CM. 2020. Critical review of exposure and effects: implications for setting regulatory health criteria for ingested copper. *Environ Manage* 65: 131 – 159.

Bridges T, Newell S, Kennedy A, Moore D, Ghosh U, Needham T, Xia H, Kim K, Menzie CA, and Kulacki K. Long-term stability and efficacy of historic activated carbon (AC) deployments at diverse freshwater and marine remediation sites. ERDC/EL TR-20-9 2020.

Sanders JP, Andrade NA, Menzie CA, Amos CB, Gilmour CC, Henry EA, Brown SS, Ghosh U. Persistent reductions in the bioavailability of PCBs at a tidally inundated *Phragmites australis* marsh amended with activated carbon. *Env. Tox. Chem.* 2018; 37: 2496-2505.

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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

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.

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.

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.

Methratta ET, Menzie CA, Wickwire WT, Richkus WA. Evaluating the Risk of Establishing a Self-Sustaining Population of Non-Native Oysters Through Large-Scale Aquaculture in Chesapeake Bay. *Human and Ecological Risk Assessment* 2013; 19(5): 1234–1252.

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*.

Deardorff TL, Menzie C, Pryke D. Uruguay's Orion Mill wins landmark environmental case before the World Court. *Paper 360° 2011*; 40-42.

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.

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

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).

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Charles JC, Menzie CA. Identifying Southeast Asian immigrant populations in Massachusetts at risk from eating contaminated shellfish. *Journal of Environmental Management* 1998; 52:161-171.

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Menzie CA, Burmaster DE, Freshman JS, Callahan CA. Assessment of methods for estimating ecological risk in the terrestrial component: A case study at the Baird & McGuire Superfund Site in Holbrook, Massachusetts. *Environmental Toxicology & Chemistry* 1992; 11:245-260.

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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. Environmental concerns related to offshore oil and gas activities: Muddy issues. *Oceanus* 1983; 26:32-38.

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

Menzie CA, Cura JJ, Skinner WF. Thermal impact evaluation for Brunner Island Steam Electric Station: Toward a more realistic assessment. *Environmental Monitoring and Assessment* 1982; 2:301-308.

Menzie CA. Production ecology of *Cricotopus sylvestris* Fabricius (Diptera: Chironomidae) in a shallow estuarine area. *Limnology and Oceanography* 1981; 26(3):467-481.

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Menzie CA. An approach to estimating probabilities of transportation related spills of hazardous materials. *Environmental Science and Technology* 1979; 13(2):224-228.

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**

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Menzie CA, Kierski MW, Goodfellow W, and Kashuba R. 2024. Tiered Environmental Causal Analysis. Chapter 27 In: Paustenbach DJ (Ed.). *Human and Ecological Risk Assessment: Theory and Practice - Set, 3rd Edition*. Pp 1009.

Menzie C, Kane Driscoll SB, Kierski M, Morrison AM. Advances in Risk Assessment in Support of Sediment Risk Management. pp. 107-130. In: *Processes, Assessment and Remediation of Contaminated Sediments*. Reible DD (ed), SERDP ESTCP Environmental Remediation Technology, Vol. 6, 2014.

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, Kaputka L, Regan H, Moller V, Noel H. Population protection goals. In: *Population-Level Ecological Risk Assessment*. Barnhouse 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.

Menzie CA, Efrogmson RA, Ells SJ, Henningsen GM, Hope BK. Risk assessment and risk management. Chapter 2. In: *Pellston Workshop on Contaminated Soils: From Soil-Chemical Interactions to Ecosystems Management*. Lanno RP (ed), SETAC Publications. Pensacola, FL, 2003.

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Thellen C, Gaudet C, Pilon A (eds), John Wiley & Sons, Ltd., 2002.

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.

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

Menzie, Morrison AM, Kleven M, Deines A, Yu Q, Duncan B, Ryan S. 2023. An Integrated Approach to Cumulative Impact Assessment in Support of Projects and Actions within Delineated Environmental

Justice Areas. Presented at SETAC North America 44th Annual Meeting. 12-16 November 2023. Louisville, KY

Menzie C, William P, Cantor R, Cox T, Wenning R, Landis W, Reiss R, Goodfellow W. Joint SRA/SETAC Roundtable: Scientific Integrity in Publications. Society of Risk Analysis, Arlington, VA. December 2015.

Goodfellow WL, Menzie C, Koshuba R. Expressing total dissolved solids toxicity as conductivity or individual ions? SETAC 36th Annual Meeting, Salt Lake City, UT, November 2015.

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 Columbia. 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.

Andrade N, Sanders J, Menzie C, et al. 2013. Pilot-scale demonstration of reduced PCB bioavailability with activated carbon amendments in a Phragmites marsh. Platform presentation, SETAC North America 34th Annual Meeting, Nashville TN, November, 2013.

Staveley J, Law S, Menzie C, Fairbrother A. A causal analysis of observed declines in managed honey bees. Platform presentation, SETAC North America 34th Annual Meeting, Nashville TN, November, 2013.

Patmont C, Ghosh U, Menzie C, LaRosa P, Quadri J, Cornelissen G, Collins J, Hjartland T. In situ sediment immobilization treatment: A demonstrated sediment cleanup technology. 7th 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 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.

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.

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Bridgeton Landfill, LLC in St. Louis MO (client) v. Missouri Asphalt Products, LLC. Expert report related to potential for contamination of groundwater and surface water associated with an on-site operation.

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State of Georgia through Kirkland & Ellis LLP (Washington, DC). Florida v Georgia concerning allocation of water flowing to the Apalachicola River. No. 142 Original: In the Supreme Court of the United States before the Special Master Hon. Ralph I. Lancaster. Expert report, Deposition Testimony, Trial Testimony concerning alleged ecological damages caused by Georgia to water and natural resources within the State of Florida.

Consol Energy Inc. through Dinsmore and Shohl LLP (Charleston, West Virginia). Commonwealth of Pennsylvania v. Consol Energy Inc et al. (Civil Action No. 11-C-556). Expert report related to claims of natural resource damages (NRD) in Dunkard Creek, Pennsylvania associated with a fish kill and loss of aquatic life.

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Dayton Power & Light Co. through Shumaker, Loop & Kendrick, LLP Shumaker, Dayton Power and Light Company, et al. v. Scott Nally, Director of Ohio EPA; Ohio Environmental Review Appeals Commission Case No. ERAC 13-296712 . Expert report and depositions related to thermal discharge evaluation and the nature and history of Little Three Mile Creek.

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Faegre Baker Daniels for confidential client. Arbitration related to performance of a consultant in a sediment contamination case. Expert and rebuttal reports and deposition testimony.

Cole, Scott and Kissane for Florikan Inc. Arbitration between Florikan and Costa Nursery concerning the cause of unhealthy plants at the nursery. Expert report on causal analysis was prepared.

Husch and Eppenberger for Monsanto Company et al. in Allen et al. v. Monsanto et al. Civil Action Number 08-CA-001762-B in the State of Florida. Expert report related to sources, fate, effects, of PCBs in the Escambia River and Bay adjacent to Pensacola FL.

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Pacific Gas and Electric Company (Defendant) through Sedgwick, Detert, Moran & Arnold, LLP (Counsel), case captioned United States of America v. Pacific Gas and Electric Company, Case No. 2:09-CV-02877-GEB-EFB in the United States District Court of the Eastern District of California. Expert report prepared rebutting claims of natural resource damages associated with the Sims Fire in 2004.

United States of America v Southern California Edison Company, Edison International, and the County of San Bernardino. Case 2:09-cv-02597-RGK-CT. United States District Court, Central District of California. Expert and rebuttal reports related to claims of natural resource damages associated with the Grass Valley Fire, Arrowhead, CA.

Frye Hearing (Shook Hardy & Bacon), Florida Case No 97-739, Circuit Court of the Fifth Judicial District in and for Lake County, FL. Testimony regarding the lack of a sound technical basis for assessing fate, transport, and effects of the fungicide Benlate on ornamental plants at a particular facility.

Fuzzell et al. v DuPont through Shook Hardy & Bacon (for DuPont), Florida Case No 97-739, Circuit Court of the Fifth Judicial District in and for Lake County, FL. Expert report prepared and deposition related to fate and transport and associated damage claims regarding the use of Benlate in plant nurseries.

Aquamar et al. v DuPont through Boies Schiller & Flexner (for DuPontY), Florida Case No 97-020375. In the Circuit Court for the Seventeenth Judicial Circuit in and for Broward County, Florida. Expert report and deposition related to the fate, transport and aquatic toxicology of Benlate as that bears on shrimp farms.

Baker-Botts for Hunt Oil and ExxonMobil in Republic of Yemen Case of Yemen Exploration & Production Company v. Republic of Yemen ICC, Case No. 14108/EC. Expert report involving assessing causes of plant declines in an area of Yemen and the claim that these were due to atmospheric emissions associated with oil extraction.

Foley Hoag for Ecuador in Ecuador v. Colombia International Court of Justice. Expert and rebuttal reports related to claims of cross-boundary impacts associated with the use of herbicides.

Foley Hoag for Uruguay in Argentina v. Uruguay International Court of Justice. Expert and rebuttal reports and preparation of trial materials for use by counsel related to cross-boundary pollution issues associated

with the construction of a pulp mill in Uruguay.

Husch and Eppenberger for Monsanto Company et al. in Marty Paulsen et al. v. Monsanto et al. in Cause No. DV-04-55, Montana Tenth Judicial District Court, Fergus County State of Montana. Expert report and deposition related to sources, fate, effects, and appropriate remedial strategies for PCBs released to Big Spring Creek in MT.

Husch and Eppenberger for Solutia Inc. and Pharmacia Corp v. McWane Inc., et al. Case No. CV-03-PWG-1345-E. U.S. District Court for the Northern District of Alabama, Eastern Division. Expert report and trial testimony related to third party claims regarding sources, fate, and potential risks associated with PCBs, lead, and other contaminants.

Kirkpatrick and Lockhart for Atlas Tack Corp. in Atlas Tack Corp v. Fairhaven, No. 01 10501WGY (lead case); United States vs. Atlas Tack Corp., No. 03-11601WGY. Expert report and trial testimony related to exposure levels of organic contaminants and metals and the appropriateness of alternative remedial approaches.

Husch and Eppenberger for Monsanto et al. in United States of America, Plaintiff v. Monsanto et al., Defendants, v. United States of America and counterclaim defendants. Civil Action 99 63-DRH. U.S. District Court, Southern District of Illinois, East St. Louis, Illinois. Expert report and trial testimony related to third party claims regarding sources, fate, and potential risks associated with PCBs, lead, and other contaminants.

Daubert Hearing related to Civil Action 99-63-DRH. United States of America District Court, Southern District of Illinois, East St. Louis, Illinois. Trial testimony presented against a Daubert challenge to the expertise of Dr. Menzie. The challenge was not successful.

Foley Hoag for Browning Ferris Industries (BFI) in Fall River, Massachusetts. Hearing testimony presented addressing claims of potential environmental consequences associated historical operations and a proposed expansion of an existing landfill. Testimony focused on the fate and effects of leachate, potential for groundwater and surface water contamination.

Morgan, Lewis & Bockius for Federal Pacific Electric Company in Federal Pacific Electric v. Home Insurance Company. Superior Court of New Jersey, Mercer County. Docket NO. MER L-5192-96. Expert report and deposition related to the fate and transport of PCBs at the Cornell Dublier facility in New Bedford, MA.

Coburn & Croft for Monsanto in Cerro Copper Products Co. v. Monsanto Company, Case No. 92-CV-204-PER, U.S. District Court for the Southern District of Illinois. Expert report and deposition related to source identification and fate of PCBs and metals to a creek in Sauget IL.

Coburn & Croft for Joseph C. Burt in Joseph C. Burt v. Sparton Engineered Products, Inc., Case No. 93-CV-04296-JPG, U.S. District Court for the Southern District of Illinois. Expert report and deposition related to source identification, fate, and potential effects of chemicals in a creek in Illinois.

Tillinghast, Collins & Graham for Eastern Gas & Electric in Eastern Gas & Electric v. Commonwealth of Massachusetts. Massachusetts Court. Expert report and trial testimony provided regarding the chemistry and toxicological implications of cyanides associated with manufactured gas plant operations.

New York City Department of Environmental Protection for City of New York. New Jersey Court. Expert report and trial testimony provided regarding the fate, transport, and potential effects associated with chemicals released from an incinerator.

Parker, Poe, Adams & Bernstein for Stewart-Warner Corp. in ILCO - Unican Corporation v. Stewart-Warner Corporation. Expert report and deposition related to a claim regarding the need for removal action due to the presence of an imminent and substantive danger.