

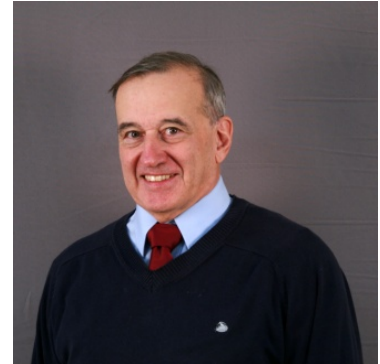
**Jerome J. Cura, Ph.D., M.S.**  
*Senior Environmental Scientist*

**EXPERTISE**

Dr. Cura is an ecological risk assessor at Woods Hole Group. He is also an adjunct professor at Cape Cod Community College where he teaches a course in Oceanography. He is an expert in the area of ecological risk analysis. He has conducted ecological risk analyses in various freshwater systems, in marine and estuarine habitats, and in terrestrial environments. He has developed guidance for conducting risk assessments at dredging sites for the United States Army Corps of Engineers and he chaired the International Navigation Association's (PIANC) workgroup that developed international guidance. Dr. Cura's experience includes conducting assessments at CERCLA and RCRA sites (industrial and government facilities), providing technical advice on the design and execution of human health and ecological risk assessments, and providing expert testimony for law firms. Industry and Government organizations frequently invite him to lead or participate in environmental conferences or symposia. Dr. Cura works as a member of The Science Collaborative, a resource network of senior environmental scientists from the consulting industry and academia. He was a founding partner of Cura Environmental and Menzie-Cura & Associates, Inc. Dr. Cura has published over 30 peer-reviewed book chapters, technical papers, journal articles, and conference proceedings in the areas of risk assessment, environmental decision making, marine ecology, and dredged material disposal evaluation methods. He is a frequent contributor to Scientific Symposia.

**QUALIFICATION SUMMARY**

- Ecological risk assessment and analysis in freshwater systems, in marine and estuarine habitats, and in terrestrial environments
- Expert testimony for law firms, industry, and government organizations
- Designed and conducted studies to assess the effects of industrial and civil activities upon marine and aquatic ecosystems
- Risk assessment and remediation at sediment and surface water contaminated sites
- Environmental business development expertise for governments and companies
- Founding partner of Cura Environmental and Menzie-Cura & Associates, Inc.
- Taught various college and university course in the areas of environmental science, biology, and oceanography



**Education**

1981 – Ph.D.  
Biological Oceanography  
*University of Maine*

1974 – M.S.

*Biology*

*Northeastern University*

1971 - B.A.

*Biology*

*College of the Holy Cross*

**Licenses and Registrations**

-Licensed Site Professional  
Association

- North Atlantic Chapter  
SETAC

- N.E. Estuarine Research  
Society

- Society for Risk Analysis-N.E.  
U.S. Section of International  
Navigation Association  
(PIANC)

- American Chemical Society

**Publications & Presentations**

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## **WORK EXPERIENCE**

- 2011-Present Senior Environmental Scientist, Woods Hole Group
- 2006-Present Founder, The Science Collaborative
- 1990-2006 Founding Partner and Principal, Menzie-Cura & Associates, Inc.
- 1989-1990 Founder, Cura Environmental
- 1986-1988 Senior Project Manager, Goldberg-Zoino & Associates, Inc.
- 1979-1986 Project Manager and Senior Scientist, EG&G Environmental Consultants
- 1973-1975 Full-Time Faculty, Massachusetts Bay Community College

## KEY PROJECTS

### **Newtown Creek CERCLA Site, New York City, New York – Ecological Risk Assessor**

Dr. Cura is currently serving as an ecological risk assessor for the City of New York, Department of Environmental protection. This work addresses the potential ecological impact associated with coastal discharges and in-place sediment contamination in Newtown Creek, New York. The program includes the interpretation of biological and chemical data, identification of potential impacts to sediment-dwelling invertebrates and to higher trophic level marine organisms through the food chain exposure pathway, and evaluation of sediment toxicity through direct contact with marine invertebrates. The work includes development of study plans and assessment of impacts as these relate to remedial action decisions and the potential for Natural Resources Damages Assessments.

### **Phosphorous Loading to Lake Wequaquet, Barnstable, MA – Ecologist**

Dr. Cura conducted a water resources program for the Town of Barnstable. The program was an assessment of the potential for eutrophication due to phosphorous loading to Cape Cod's largest lake, Lake Wequaquet in Barnstable, Massachusetts. The assessment included direct measurement of phosphorous loadings from groundwater and rainfall directly to the lake surface, direct measurement of total, iron bound and loosely bound phosphorous in lake sediments, direct measurements of the depth of the sediment unconsolidated layer, direct measurement of bathymetry, and an estimate of the near field septic contribution. Dr Cura integrated these data with long term monitoring of lake hydrography, total water column phosphorous, chlorophyll-a, and oxygen profiles to address the trophic state of the lake. He provided an uncertainty analysis and recommendations that address the sources of uncertainty. Dr. Cura identified the manageable sources of phosphorus to the lake and provided alternatives for controlling these sources.

### **Ecological Risk Assessment, New Bedford, MA – Ecologist**

Dr. Cura is conducting an ecological risk assessment under contract to the USACE New England Division to assess the potential effects of exposures of PCBs to coastal marine organisms (Buzzards Bay). This work is being conducted in support of an engineering remedial action plan for the protection of ecology and human health in the near shore and coastal areas of Buzzards Bay proximate to New Bedford Harbor. The work included the collection of benthic samples for analysis of community parameters, sediment toxicity testing using marine invertebrates, collection and measurement of chemical body burdens in marine polychaetes, forage fish (*Fundulus*), and three species of marine bivalves (*Crassostrea*, *Mercenaria*, and *Guekensia*). These data were incorporated into food chain models to address exposure to higher trophic level marine organisms (osprey, terns, cormorant, and heron). The results of these studies are being used by the USACE and EPA Region 1 to develop remedial alternatives for the clean-up of sediment contamination.

### **Development of Ecological Risk Assessment Guidance at Dredged Material Management Sites, Vicksburg, MS – Ecologist.**

Dr. Cura developed a guidance document for assessing ecological and human health risks at dredged material management sites for the USACE Engineering Research and Development Center, Vicksburg, Mississippi. This

## KEY PROJECTS (CONTINUED)

work provided a national guidance document for USACE personnel involved in planning of coastal and riverine dredging projects. The document subsequently served as the basis of an international guidance document prepared by an international work group (PIANC) chaired by Dr. Cura.

### **Long Island Sound DMMP Evaluation of Potential Dredged Material Containment Sites, LIS, CT – Coastal Ecologist.**

Dr. Cura managed a study of potential dredged material management sites in the LIS in support of the Dredged Material Management Plan being prepared by the United States Army Corps of Engineers on behalf of USEPA. The work included an assessment of near shore placement sites (CADs, CDFs, and near shore berms). The assessment included the description of the likely technologies, the locations of potential sites, and a description of near shore resource areas including cultural, physical, infrastructure, and environmental (sensitive habitats, fisheries, coastal wetlands, threatened species, shellfisheries, federally managed habitat, etc.). The work included maps and a matrix that defined these resources, described the engineering characteristics of the technology associated with the potential dredged material management alternative, and defined the likely impacts associated with the site specific application of the technology to local resources. The work is supporting an overall Dredged Material Management Plan (DMMP) and Programmatic Environmental Impact Statement (P-EIS) for such activities in Long Island Sound.

## PUBLICATIONS & PRESENTATIONS

### PEER REVIEWED PUBLICATIONS

Von Stackelberg, K., D. Vorhees, D. Moore, J. Cura, and T. Bridges. 2008. Evaluation of Sources of Uncertainty in Risk Assessments Conducted for the US Army Using a Case Study Approach. *Integrated Environmental Assessment and Management* 4(1):41-60. 2008 [http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2FIEAM\\_2007-004](http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2FIEAM_2007-004)

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Cura, J.J, S. Burt, T. Estes Challinor, D. Kevelam, W. Manz, A. Netzband, J. F. Sanchez, T. Suzuki. 2006. Environmental Risk Assessment of Dredging and Disposal Operations, Environmental Commission Report of Working Group 10, International Navigation Association (PIANC), Brussels, Belgium. <http://www.pianc-aipcn.org/publications/reports-article.php?id=4000101>

Bridges, T., G. Kiker, J. Cura, D. Apul, I. Linkov. 2005. Towards Using Comparative Risk Assessment To Manage Contaminated Sediments, In: *Strategic Management Of Marine Ecosystems* (Levner, E., Linkov, I., Proth, J.M., Eds ;(50):261-269, Springer Netherlands, NATO Science Series IV, Earth and Environmental Sciences <http://www.springerlink.com/content/kh44103220808378>

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<http://www.informaworld.com/smpp/content~content=a713605476~db=all~order=page>

Linkov, I., D. Burmistrov, J.J. Cura, and T.S. Bridges. 2002. Risk-based management of contaminated sediments: consideration of spatial and temporal patterns in exposure modeling. *Environmental Science & Technology*. 36(2):238-246. <http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i02/abs/es010721d.html>

von Stackelberg, K., D. Burmistrov, I. Linkov, J.J. Cura, T.S. Bridges. 2002. The use of spatial modeling in an aquatic food web to estimate exposure and risk. *The Science of the Total Environment*. 288(1-2):97-110.  
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C.A. Menzie, S.S. Hoepfner, J.J. Cura, J.S. Freshman, and E.N. LaFrey. 2002. Urban and suburban storm water runoff as a source of polycyclic aromatic hydrocarbons (PAHs) to Massachusetts estuarine and coastal environments. *Estuaries*. Vol. 25, No. 2, p. 165-176. [http://estuaries.olemiss.edu/cgi-bin/est/printabstract\\_public.cgi?ESTU2002\\_25\\_2\\_165\\_176](http://estuaries.olemiss.edu/cgi-bin/est/printabstract_public.cgi?ESTU2002_25_2_165_176)

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Peddicord, R., J. Brannon, T. Bridges, J. Cura, R. Engler, C. Lee, M. Palermo, C. Price, R. Price, R. Schroeder, J. Simmers, H. Tatem, and J. Wilson. 2000. "Evaluation of Dredged Material Proposed for Placement in Upland Sites," Proceedings, Western Dredging Association 20<sup>th</sup> Technical Conference and 32<sup>nd</sup> Annual Texas A&M Dredging Seminar, June 25-28, 2000, Warwick, Rhode Island.

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Cura, J.J. 1998. Ecological Risk Assessment under the Massachusetts Contingency Plan. In: *Risk, Resource, and Regulatory Issues – Remediation of Chlorinated and Recalcitrant Compounds*, eds. G.B. Wickramanayake and R.E. Hinchee. The First International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 18-21, 1998.  
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Cura, J.J., W. Heiger-Bernays, T.S. Bridges, and D.W. Moore. 1998. Ecological and Human Health Risk Assessment Guidance for Aquatic Environments. *Technical Report DOER-4*. Prepared for U.S. Army Corps of Engineers, Engineer, Research, and Development Center, Vicksburg, MS. <http://el.erdc.usace.army.mil/elpubs/pdf/trdoer4.pdf>

Moore, D. W., T. S. Bridges, J. Cura. 1998. Dredging/Dredged Material Management Risk Assessment, *Technical Report DOER-R1*. Prepared for U.S. Army Corps of Engineers, Engineer, Research, and Development Center, Vicksburg, MS. <http://el.erdc.usace.army.mil/elpubs/pdf/doerr1.pdf>

Cura, J.J. 1998. Ecological risk assessment. *Water Environment Research, Literature Review*. 70(4):968-971.

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Menzie CA, JJ Cura, JS Freshman and B Potocki. 1991. Boston Harbor: Estimates of Loadings. Boston: Massachusetts Water Resources Authority. Report 1991-04. 108 p. <http://www.mwra.state.ma.us/harbor/enquad/pdf/1991-04.pdf>

Menzie, C.A. and J.J. Cura. 1991. Environmental Evaluations at Hazardous Waste Sites. In Proceedings of the HMC-Northeast '91 Conference, Boston, MA, July 10-12, by the Hazardous Materials Control Research Institute. Greenbelt, MD, pp. 77-84.

Menzie, C.A., J.J. Cura, R. Gillmor, B. Magnell, G. Mariani, T. Bartholomew, W. Gardner, and W. Smith. 1989. The Optimum Mix of Pollution-Monitoring Platforms: Deepwater Dumpsite-106 Case Study. In M. Champ and P. K. Park, eds., *Oceanic Processes in Marine Pollution*. Vol. 3 - Marine Waste Management: Science and Policy. Kreiger Publishing Co., Malabar, FL, pp. 259-276. <http://mdl.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5817860&q=%22J.+Cura%22&uid=791440731&setcookie=yes>

Cura, J.J., R. Gillmor, G. Mariani, C. Menzie, E. Burke, W. Curtis, C. Ketchum, and B. Tucholke. 1989. Site-Selection Criteria for the Disposal of Low-Level Radioactive Wastes off the East Coast of North America. In M. Champ and P. K. Park, eds., *Oceanic Processes in Marine Pollution*, Volume 3 - Marine Waste Management: Science and Policy. Kreiger Publishing Co., Malabar, FL, pp. 177-185. <http://mdl.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5817852&q=%22J.+Cura%22&uid=791440731&setcookie=yes>

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