

HUDSON A. RODITI

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PROFESSIONAL PREPARATION

B.A. (History) Cornell University, College of Arts and Sciences, 1988
B.S. (Biology) State University of New York, College at New Paltz, 1994
Ph.D. (Coastal Oceanography) Marine Sciences Research Center, State University of New York at Stony Brook, 2000

APPOINTMENTS

2006-present Program Director, The Urban Advantage Initiative, Education Department, American Museum of Natural History
2004-present Adjunct Faculty, Bank Street College of Education (Kerlin Science Institute)
2001-2006 Regional Director for Latin America and the Caribbean, The GLOBE Program (Global Learning and Observations to Benefit the Environment)
2002-2006 Adjunct Faculty, Queens College and GLOBE Program-N.Y. Metro Partnership
200-2001 John A. Knauss Marine Policy Fellow at The GLOBE Program, National Sea Grant Program (NOAA)
1994-2000 NOAA NERRS Graduate Research Fellow and Sea Grant Scholar (National Estuarine Research Reserve System), Marine Science Research Center, State University of New York at Stony Brook
1994 Polgar Fellow (Hudson River Foundation). Cary Institute of Ecosystem Studies, Box AB, Millbrook, N.Y. 12545.
1993 Research Experience for Undergraduates (REU) Fellow, Cary Institute of Ecosystem Studies, New York

RELEVANT PUBLICATIONS

Roditi, H.A., D.L. Strayer, and S.E.G. Findlay. 1997. Characteristics of zebra mussel (*Dreissena polymorpha*) biodeposits in a tidal freshwater estuary. *Archiv fur Hydrobiologi* 140(2):207-219.

Roditi, H.A., N.M. Caraco, J.J. Cole, and D.L. Strayer. 1996. Filtration of Hudson River water by the zebra mussel (*Dreissena polymorpha*). *Estuaries* 19(4):824-832.

Roditi, H.A., N.S. Fisher, and S.A. Sañudo-Wilhelmy. 2000. Uptake of dissolved organic carbon and trace elements by zebra mussels. *Nature* 407: 78-80.

Roditi, H.A., N.S. Fisher, and S.A. Sañudo-Wilhelmy. 2000. Field testing a metal bioaccumulation model for zebra mussels. *Environmental Science and Technology* 34: 2817- 2825.

Roditi, H.A., and N.S. Fisher. 1999. Rates and routes of trace element uptake in zebra mussels. *Limnology and Oceanography* 44: 1730-1749.

SYNERGISTIC ACTIVITIES

- Program Director of the Urban Advantage initiative, with lead role developing instructional materials that support the use of authentic scientific data sets in UA student investigations. Professional development workshops developed for teachers modeling authentic investigation using National Climate Data Center weather and climate data sets for New York City, and global seismology data sets from Incorporated Research Institutions for Seismology (IRIS). (2006-present)
- Former research collaborator with Cary Institute of Ecosystem Studies scientists with published research specifically on ecological impacts of the zebra mussel invasion on the freshwater Hudson River. Research focused on changes in primary production in Hudson River caused by clarification of water due to large-scale filter feeding by mussels, describing shifts from pelagic to benthic food webs caused by biodeposition by zebra mussels of organic-rich mater on the river bottom, and the potential of the zebra mussel to serve as an indicator species for water quality parameters including heavy metal contamination much like the marine mussel has served National Oceanic and Atmospheric Administration “Mussel Watch” efforts in marine systems. (1993-2000)
- Former GLOBE Program Regional Director for Latin America, responsible for implementing GLOBE in 18 Spanish-speaking countries and developing secondary research skills among GLOBE teacher and students--including skills for searching the GLOBE student database online for data collected by students in 120 GLOBE countries, and designing investigations using GLOBE data collected by the international network of GLOBE schools. (2000-2006)

COLLABORATORS

Collaborators and Co-editors:

Michael Cook: Math Science Coordinator, Bank Street College of Education

Jon Snyder: Dean of Graduate Studies, Bank Street College of Education

Allan Ludman, Professor, Queens College (CUNY)

GRADUATE (DISSERTATION) ADVISORS

Jonathan Cole: Scientist, Institute of Ecosystem Studies

Nicholas Fisher: Professor, SUNY Stony Brook (Advisor)

Jeffery Levinton: Professor, SUNY Stony Brook

Glenn Lopez: Professor, SUNY Stony Brook

Sergio Sañudo-Wilhelmy: Professor, SUNY Stony Brook