

Hudson River Seminar Series for Educators

Bader, Doreen - Water Quality Education in New York City

Doreen Bader is a research scientist and environmental educator for the New York City Department of Environmental Protection. She received a B.S. in Marine Biology from Long Island University, Southampton College and a M.S. in Environmental and Public Health from CUNY Hunter College. Doreen has served as Assistant Chief of Drinking Water Quality Control where she piloted water quality projects for health and safety standards. More recently, she has joined the Public Affairs Division within the NYC DEP where she does public speaking on technical subjects before varied audiences, including school groups.

website: <http://www.ci.nyc.ny.us/html/dep/home.html>

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Dalton, Debbie - Oyster Restoration Project

Director of the Oyster Program at the NY/NJ Baykeepers

The NY/NJ Baykeeper is an affiliate of the American Littoral Society. The mission of the Baykeeper program is to protect, preserve and restore the ecological integrity and productivity of the Hudson/Raritan Estuary, its tributaries and watershed. As the citizen conservation advocate for the Estuary's waterways and shores, the Baykeeper stops polluters, champion's public access, and influences land use decisions. Baykeeper pursues opportunities for direct land preservation and habitat restoration and helps advance the Estuary's environmental and biological importance as well as its value as a recreational and cultural resource.

website: <http://www.nynjbaykeeper.org/programs/42>

email: oyster@nynjbaykeeper.org

Gelb, Yigal - The Harbor Herons Shore Monitoring Program

Yigal Gelb is the Program Director for the Harbor Herons Shore Monitoring Program at the NYC Audubon. Mr. Gelb grew up in Israel, where he served three years as a paratrooper in the Israeli army. He obtained a B.A. in Economics from the University of

Rochester and then worked for three years at the Federal Reserve Bank of New York as an assistant economist. Mr. Gelb earned his Master's Degree in Environmental Science and Policy from Columbia University. In October 2004, Mr. Gelb was hired by NYC Audubon to serve as its Program Director. In this capacity, he is responsible for the funding, execution and promotion of various initiatives, including the Harbor Herons Project, Project Safe Flight, and the Natural Areas Initiative. Mr. Gelb is a regular contributor to NYC Audubon newsletter, the Urban Audubon and also serves on NYC Audubon's Conservation Committee as well as various other regional committees.

website: <http://www.nycaudubon.org/projects/harborherons/>

email: ygelb@nycaudubon.org

Horenstein, Sidney - Ecology and Geology of the Hudson River

Sidney Horenstein is a retired geologist and environmental educator emeritus at the American Museum of Natural History. He was also an adjunct lecturer in the department of geology at Hunter College, CUNY from 1962-1986. Among the many programs at AMNH, he also narrates harbor cruises several times a year that emphasize the geological and environmental features of New York's waters.

Kiernan, Kim - For the Birds! Program

Kim Kiernan is the Program Coordinator for Audubon New York's *For the Birds!* education program. In this position, Kim is responsible for administration and teaching the program, curriculum development and recruiting and training of volunteers. Kim has a Master's degree in Environmental Studies and another in Forest Ecology. Her past experience working in environmental education includes 4 years as a New York City Park Ranger. In her current job, Kim teaches the program *For the Birds!* at P.S. 128 in Washington Heights and P.S. 140 in the Lower East Side.

website: <http://ny.audubon.org/ftb.htm>

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Levandowsky, Mike - Plankton Life in the Lower Hudson

Michael Levandowsky is a marine ecologist at the Haskins Laboratories at Pace University in NY. He received a B.A. degree in mathematics from Antioch College, Ohio, followed by an M.A. in Zoology and a Ph.D. in Biology from Columbia University. Later, he earned an M.S. in Applied Mathematics from New York University. He teaches courses at New York University and the School of Visual Arts and has been a visiting scientist at the University of British Columbia and Heidelberg University. He has been a research scientist at the Haskins Laboratories since 1970. Major research interests include, the ecology and behavior of marine algae and protozoa, and mathematical models of ecological communities. He has performed fieldwork in Bermuda, Barbados, Jamaica, Kenya, the Hudson Bay and the Canadian Arctic. Dr. Levandowsky often studies the local environment such as the lower Hudson River, the East River and other waters in the New York area, as well as, salt marshes in Staten Island and the New Jersey Meadowlands. He is a member of a number of editorial advisory boards and committees for educational and environmental institutions.

website: <http://www.woodrow.org/teachers/bi/2000/Photos/Levandowskyprofile.html>
email: mlevandowsky@pace.edu

Ludwig, Mike - Human Impacts to Marine Populations

The National Oceanic and Atmospheric Administration's (NOAA) National Marine Fisheries Service (NMFS) has employed Michael Ludwig in the Habitat Conservation Division for more than twenty years. NOAA is the home of the weather service, navigation charting and commercial fisheries management. Mr. Ludwig's principal responsibility is evaluating the environmental impact of development as it relates to aquatic public trust resources in the waters of the United States within the Coastal and Exclusive Economic Zones. He is presently the NMFS, Northeast Region's Aquaculture Coordinator for his division. His recent work includes, coordination of regulatory actions regarding use of public trust resources for utility installations and aquaculture development in Connecticut, New York and Rhode Island. In addition, Dr. Ludwig has worked on the maintenance and expansion of Ports such as, New York, New Haven and Providence, shellfish restoration in the Long Island Sound, the long term management of

dredging and material relocation, installation of electric and gas transmission systems, Endangered Species Act coordination and the development of offshore wind generation facilities. At the time of the presentation, Dr. Ludwig was working with Rutgers University on the aquatic and biological impacts of recreational watercraft.

Email: Michael.ludwig@NOAA.gov

Maass, Robert - Gotham Fish Tales: A Documentary Film

Gotham Fish Tales was produced and filmed by Robert Maass, a filmmaker and former *Newsweek* photographer. Maass is a lifelong New Yorker and fisherman who knows New York's waterways. He began the project in 1996 while photographing for the city's Department of Environmental Protection, when he found employees of the sewage plants along the water's edge, fishing on their lunch breaks. The film was the official selection at the Newport Beach, Vermont and Howl Film Festivals.

websites: www.gothamfishtales.com

email: info@gothamfishtales.com

Park, Martin - The River Project Marine Biology Internship Program

Former Head of Interns at the River Project

websites: <http://www.riverproject.org>

email: For current head of interns, hoi@riverproject.org

Ranheim, Robert (Beau) - Sewage Treatment Management in the Hudson River

Robert (Beau) Ranheim, M.S., is the head of the Marine Sciences Division with the New York City Department of Environmental Protection. Beau graduated in 1991 with a M.S. in Marine Environmental Science from SUNY Stony Brook. He has been employed at the NYC DEP Marine Sciences Division as a scientist since 1992 and has been the Section Chief Since 2000.

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Strayer, David - Invertebrates of the Hudson River

Dr. David Strayer is an aquatic ecologist and senior scientist at the Institute of Ecosystems Studies in Millbrook, New York. He received a B.S. in Zoology from Michigan State University and his Ph.D. in Ecology and Evolutionary Biology at Cornell University. He has served as visiting faculty at Rutgers, Cornell and Ohio Northern University. Most recently, he has been a visiting professor at Bard College and continues to be on the staff as an adjunct professor at the State University of Albany. Dr. Strayer's research is focused on the distribution and roles of freshwater invertebrates. He is currently working on the ecology of the Hudson River and on understanding the controls on distribution and abundance of pearly mussels. He is co-author of *The Pearly Mussels of New York State*, a comprehensive book on unionids, a diverse and endangered group of animals.

website: <http://www.ecostudies.org/>

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Waldman, John – Harbor Ecology and Biodiversity

Dr. John Waldman is a senior scientist with the Hudson River Foundation for Science and Environmental Research. He received his Ph.D. from the Joint Program in Evolutionary Biology between the American Museum of Natural History and the City University of New York, and a M.S. in Marine and Environmental Sciences from Long Island University. Also, he is a Research Associate at the Department of Ichthyology at the American Museum of Natural History and a professor at Queens College. His research interests focus on the ecology and evolution of fishes. Dr. Waldman has authored more than 50 scientific articles, a book on the environment of New York Harbor titled, *Heartbeats in the Muck*, and a book on marine phenomena and coastal pleasures titled, *The Dance of the Flying Gurnards*. He occasionally contributes to the New York Times and various periodicals.

websites: http://qcpages.qc.cuny.edu/Biology/fac_stf/waldman.html

email: john_waldman@qc.edu

Wirgin, Ike - Harbor Pollutants and their Impact on Estuarine Species

In 1969, Isaac Wirgin received his Bachelor of Arts degree in political science from Hofstra University. He then went on to receive his M.A. and Ph.D. in Biology from the City University of New York (CUNY). While working on his doctoral degree, Ike became an adjunct lecturer and then moved on to a research scientist position with the department of Biology at CUNY. In 1986, Ike earned the position of associate research scientist in the department of environmental medicine at New York University. In 1988, he advanced to research assistant professor and began his postdoctoral work in chemical carcinogenesis. After completing his postdoctoral work, Ike moved to his present role as associate professor at the Nelson Institute's Department of Environmental Medicine at New York University. Dr. Wirgin's research interests include the molecular toxicology and biomarkers in fishes and other aquatic organisms, molecular mechanisms of carcinogenesis, molecular evolution and stock discrimination using DNA markers. His honors and awards include: cancer etiology in finfish and shellfish, NIEHS special study section; NJ Sea Grant scientific advisory board; environmental health review panel, U.S. EPA; marine and freshwater biomedical centers, NIEHS study section; best paper award, 1997, Trans. American Fish Society.

websites: <http://www.med.nyu.edu/environmental/faculty/WirginI.html>

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