

## Ecotoxicology: A Hudson River Case Study

<u>Topics</u>	<u>Lecturer</u>	<u>Date</u>
1. Introduction to Ecotoxicology and HR toxicants of concern	I. Wirgin-NYUSOM	9/8
2. Geological history and hydrology of the HR	S. Stanne-NYSDEC	9/15
3. Foundry Cove-resistance to Cd-Ni toxicity	I. Wirgin-NYUSOM	9/22
<b>Field trip to Foundry Cove</b>		9/23
4. Biodiversity (everything other than fishes) of the Hudson River estuary	E. Kiviat-Bard College	9/29
<b>Rain date to Foundry Cove</b>		9/30
5. Bioavailability of metals and organics	D. DiToro- U. Del	10/6
6. Biodiversity (fishes) in the HR ecosystem History of contamination of New York Harbor	J. Waldman-Queens College	10/13
7. Trophic transfer of Superfund chemicals	K. Farley-Manhattan College	10/20
8. Mercury bioavailability and toxicity Midterm exam	R. Mason-UCONN	10/27
9. Bioremediation-fact or fiction	L. Young-Rutgers U.	11/3
10. Effects of contaminants on HR fishermen History of the HR environmental movement	C. Letts-HRF J. Levinton-SUNY SB	11/10
11. Toxic effects of PCBs in HR fishes	I. Wirgin- NYUSOM	11/17
12. Toxic effects of PCBs in HR tree swallows and mink	A. Secord-USFWS I. Wirgin-NYUSOM	12/1
13. Management of a Superfund site from an EPA perspective Levels of toxicants in Hudson River fishermen	A. Hess- USEPA A. Golden- Mt. Sinai	12/8
14. Inputs and remediation of pollutants to the lower River--Implications and policy	D. Suszkowki-HRF	12/13
15. Final Exam		12/20

**Course Coordinator:**

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Course meets: 9:30-12:15 Thursdays  
Waverly Building, Room 569

Course requirements: Midterm and Final Exams

Readings will be assigned on a weekly basis by that week's speaker

Some suggested texts (not required)

M.C. Newman and M.A. Unger. Fundamentals of Ecotoxicology, Lewis Publishers

C.H. Walker et al. 2003. Principles of Ecotoxicology, 2nd Edition, Taylor and Francis

D.G. Crosby, 1998. Environmental Toxicology and Chemistry, Oxford University Press

S.M. Adams, 2002. Biological Indicators of Aquatic Ecosystem Stress, American Fisheries Society