SHIMON C. ANISFELD, PH.D.

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PRESENT POSITION

Yale School of Forestry & Environmental Studies, Senior Lecturer and Research Scientist in Water Resources and Environmental Chemistry, July 2006-present

EXPERIENCE

Yale School of Forestry & Environmental Studies, Lecturer and Research Scientist in Water Resources and Environmental Chemistry, July 2003 – June 2006

Yale School of Forestry & Environmental Studies, Lecturer and Associate Research Scientist in Water Resources and Environmental Chemistry, July 2000 – June 2003

Yale School of Forestry & Environmental Studies, Associate Research Scientist and Lecturer in Environmental Chemistry, July 1997-June 2000

Yale School of Forestry & Environmental Studies, Postdoctoral Associate with Professor Gaboury Benoit, Sept. 1994 – June 1997

EDUCATION

Yale School of Forestry & Environmental Studies, Postdoctoral coursework in environmental chemistry and hydrology, Sept. 1993 – August 1994

Massachusetts Institute of Technology, Ph.D. in Organic Chemistry, May 1993

Princeton University, A.B. in Chemistry *cum laude*, May 1987

TEACHING EXPERIENCE

- *water resources*: Water Resource Management; Case Studies in Water Resources
- *coastal ecology*: Coastal Ecosystems: Natural Processes and Anthropogenic Impacts; Managing the Coastal Nutrient Problem: The Case of Long Island Sound; The Science and Policy of Coastal Eutrophication and Restoration

- *environmental chemistry*: Organic Pollutants in the Environment; Environmental Organic Chemistry; Seminar in Environmental Organic Chemistry
- *other*: Isotopes in Environmental Science; Emerging Markets for Ecosystem Services: Developing an Integrated Framework for Analysis

CURRENT RESEARCH QUESTIONS

How do different levels of water withdrawals from rivers affect the health of aquatic ecosystems?
How can environmental flows for rivers be designed to balance human and ecosystem needs for water?
What is the relationship between watershed land use and river pollutant loads?
Can isotope methods be used to trace sources and sinks of pollutants?
How does the temporal and spatial variability in river conditions impact water quality assessments?
How do tidal marshes maintain – or fail to maintain – their elevation in the face of sea level rise?
How do high nutrient loads change above-ground and below-ground processes in salt marshes?
What is the degree of success – and what are the unintended consequences – of wetland restoration?
How can environmental indicators best be used to evaluate ecosystem health and management success?
How do cities metabolize water and nitrogen?

PUBLICATIONS – Peer-reviewed

Anisfeld, S. C., R. T. Barnes, M. A. Altabet, and T. X. Wu. 2007. Isotopic apportionment of atmospheric and sewage nitrogen sources in two Connecticut rivers. Environmental Science and Technology **41**: 6363-6369.

Anisfeld, S. C. 2007. Emerging markets for ecosystem services: Setting the context. Journal of Sustainable Forestry, **25**: 1-14.

Traister, E. and **S. C. Anisfeld**. 2006. Variability of indicator bacteria at different time scales in the Upper Hoosic River Watershed. Environmental Science and Technology **40**: 4990-4995.

Chmura, G., **S. C. Anisfeld**, D. Cahoon, and J. Lynch. 2003. Global carbon sequestration in tidal, saline wetland soils. Global Biogeochemical Cycles **17** (DOI 10.1029/2002GB001917)

Anisfeld, S. C., M. J. Tobin and G. Benoit. 1999. Sedimentation rates in flow-restricted and restored salt marshes in Long Island Sound. Estuaries **22**: 231-244.

Anisfeld, S. C. and G. Benoit. 1997. Impacts of flow restrictions on salt marshes: An instance of acidification. Environmental Science and Technology **31**:1650-1657.

Cohen-Anisfeld, S. T. and P. T. Lansbury Jr. 1993. A practical, convergent method for glycopeptide synthesis. Journal of the American Chemical Society **115**: 10531-10537.

Hendrix, J. C., J. T. Jarrett, **S. T. Anisfeld** and P. T. Lansbury Jr. 1992. Studies related to a convergent fragment coupling approach to peptide synthesis using the Kaiser oxime resin. Journal of Organic Chemistry **57**: 3414-3420.

Anisfeld, S. T. and P. T. Lansbury Jr. 1990. A convergent approach to the chemical synthesis of asparagine-linked glycopeptides. Journal of Organic Chemistry **55**: 5560-5562.