

Curriculum Vitae: Stephen D. McCormick



Adjunct Full Professor, UMASS, Amherst
Research Physiologist, USGS, Conte Anadromous Fish Research Center

Education

1977: B.S. Bates College

1983: Ph.D. Massachusetts Institute of Technology and Woods Hole Oceanographic Institution

Postdoctoral

1983-1986: St. Andrews Biological Station, New Brunswick, Canada

1986-1990: Department of Integrative Biology, University of California, Berkeley

1990: Ocean Research Institute, University of Tokyo

Research Interests

I am interested in the environmental and hormonal control of osmoregulation, development, growth and reproduction in fish. Much of this work is applied to the conservation and restoration of anadromous fish. Recent research includes four major areas:

- 1) Hormonal control of salinity tolerance and mechanisms of ion transport in anadromous fish (salmon, alewife, shad, sturgeon and lamprey).
- 2) Environmental regulation of migratory behavior and physiology in anadromous fish.
- 3) Disruption of normal development by contaminants, including endocrine disruptors and acidification.
- 4) Impact of temperature on stress, growth and migration in brook trout and Atlantic salmon.