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Dr. Fredette is a research biologist at the U.S. Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC), Environmental Laboratory working from Concord, Massachusetts. He obtained his bachelor's degree in marine biology from Southeastern Massachusetts University (now UMass-North Dartmouth) and master's and Ph.D. degrees in Marine Science from the Virginia Institute of Marine Science, The College of William and Mary. He has authored over 80 published papers, technical reports and conference papers and has made numerous conference presentations in the areas of dredged material management, seagrass community ecology, marine environmental monitoring, and improving the environmental sustainability of water resources infrastructure

Prior to joining ERDC, Tom served from 1986 to 2009 as the Program Manager for DAMOS (Disposal Area Monitoring System), the New England District's monitoring program for offshore dredged material disposal sites. His experience includes assessment, regulation and management of dredged material, contaminated sediment management, marine environmental monitoring, environmental impact assessment, seagrass ecology and transplanting, and marine benthic invertebrate ecology. Tom has been a team member on various contaminated sediment remediation projects including New Bedford Harbor, Palos Verdes Shelf, Grand Calumet River, St. Louis River/Duluth Tar Site, Callahan Mine, and the Housatonic River. He has also served on project delivery teams for many USACE navigation dredging projects. Tom has been a US representative to the Scientific Group of the London Convention treaty since 2001 and has also conducted training on the implementation of the treaty on five continents.

Tom worked as a Research Scientist at ERDC from 1983 to 1986 through an Intergovernmental Personnel Agreement (IPA) in the Environmental Lab, Marine Ecology Section.