

## Elizabeth A. Canuel Professor of Marine Science

Dr. Elizabeth Canuel is an organic geochemist and chemical oceanographer with expertise in understanding the sources and cycling of organic carbon in the coastal ocean. Her research involves the use of isotopic tracers and lipid *biomarkers* (proxies for different sources of organic matter) to study: (1) factors controlling organic carbon composition at both modern and geologic timescales, (2) coastal and estuarine food web interactions, and (3) organic matter diagenesis using sediment and peat cores. Her interest in these topics is motivated by understanding how human activities (e.g., land use, nutrient enrichment, water management, and climate change) influence the carbon cycle.



Dr. Canuel is the author of >80 peer-reviewed articles, two co-edited special journal issues and she is co-author of the book, “Chemical Biomarkers in Aquatic Ecosystems.” She is, or has served as, Associate Editor of the journals *Limnology & Oceanography*, *Geochimica et Cosmochimica Acta* and *Organic Geochemistry*. She has been the recipient of numerous awards including a 2011 Aldo Leopold Environmental Fellow, a CAREER award from the National Science Foundation, the Thomas Jefferson Teaching Award and the Alumni Fellowship Award for teaching at The College of William & Mary, and was twice awarded the Dean's Prize for the Advancement of Women in Marine Science at VIMS. In 2016, she received the recognition of Geochemistry Fellow from the Geochemical Society (GS) and the European Association of Geochemistry (EAG). Her interests also include ocean science education and efforts to expand the participation of under-represented groups in ocean and environmental science. She is one of the founding co-directors of the Undergraduate Program in Marine Science at William & Mary and was director of the NSF sponsored program, Female Initiation into Research, Science and Technology (FIRST), a 5-year program that provided research experiences in marine chemistry/geochemistry for high school girls. She has held leadership positions in international scientific societies including the American Geophysical Union, the Geochemical Society and Coastal and Estuarine Research Federation. Dr. Canuel earned her Ph.D. from the University of North Carolina at Chapel Hill, and was a National Research Council Postdoctoral Fellow at the U.S. Geological Survey in Menlo Park CA. She is currently Professor of Marine Science in the Department of Physical Sciences at the College of William and Mary's Virginia Institute of Marine Science.

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