

Feb. 2018

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Senior Scientist

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Education: B.A. - Geology, Brown University, 1969
M.S. - Oceanography, University of Rhode Island, 1976
Ph.D. - Oceanography, University of Rhode Island, 1979

Scientific Interests:

History of climate and ocean change based on investigations of deep sea sediments, with emphasis on the western North Atlantic, the North Pacific and the Arctic Oceans, including their marginal seas. The North Atlantic Oscillation. Holocene climate change. Radiocarbon as a tracer for ocean ventilation.

Positions and Experience:

1. Academic Experience:

Senior Scientist, Geology & Geophysics, WHOI, 1993-present
Edna McConnell Clark Chair in Oceanography, 2005-2009.
Associate Scientist, Geology & Geophysics, WHOI 1984-1993.
Assistant Scientist, Geology & Geophysics, WHOI, 1980-1984.
Research Associate, Graduate School of Oceanography, URI, 1979-1980.
Research Assistant, Graduate School of Oceanography, URI 1974-1979.

2. Academic Shipboard Experience :

1975 (Feb-Mar) *R/V Trident* Cruise 163, piston coring in Panama Basin.
1979 (Jun-Jul) DSDP Leg 68, Colombian Basin and Galapagos Rise.
1983 (Jul-Sep) DSDP Leg 94, North Atlantic transect, sedimentologist.
1984 (Jul) *R/V Knorr* Cruise 104, Leg 10, box coring U.S. continental margin.
1986 (Jun) *R/V Cape Hatteras* Cruise 14, box coring U. S. continental margin.
1988 (Jul-Aug) Co-Chief Scientist, *R/V Thomas Washington*, Roundabout Leg 6, NW Pacific; piston coring, seismic and bathymetric surveying.
1989 (Jul) *SSC Kaiyo*, Suruga Bay (Japan); coring, seismic surveying.
1990 (Jun) Chief Scientist, *R/V Atlantis II* Cruise 125, Leg 6, Gulf of California; coring, hydro stations, sediment trap deployments.

- 1991 (Jul-Aug) Co-Chief Scientist, *R/V Akademik Aleksandr Vinogradov* Cruise 19, Leg 4, northwest Pacific and Bering Sea; coring, hydro stations, dredging, sediment trap deployments.
- 1992 (Jun-Aug) JOIDES Resolution ODP Leg 145, North Pacific Transect. Stratigrapher and proponent for Detroit Seamount sites.
- 1993 (Aug-Sep) Co-Chief Scientist *R/V Akademik Aleksandr Nesmeyanov* Cruise 25, Okhotsk Sea; coring, hydro stations, WOCE leg.
- 1993 (Nov) Chief Scientist *R/V Knorr* Cruise 140, Leg 2, Blake and Bahama Outer Ridges; surveying, coring and hydro stations.
- 1997 (Feb-Apr) Chief Scientist, Ocean Drilling Program Leg 172.
- 1998 (May) Chief Scientist *R/V Cape Hatteras* cruise 07-98, coring and sonar surveying, mid-Atlantic Bight.
- 1998 (July) Chief Scientist *R/V Oceanus* cruise 326, coring and sonar surveying, Bermuda Rise and Laurentian Fan.
- 2001 (July-August) *R/V Weatherbird*, surveying, coring and instrument development around Bermuda.
- 2002 (June-July) Chief Scientist *USCGC Healy* cruise 02-02, surveying, coring, water casting in Bering Sea.
- 2002 (Aug-September) Chief Scientist *USCGC Healy* cruise 02-04, surveying and coring in the Chukchi Sea.
- 2004 (Feb-Mar) Chief Scientist, *R/V Knorr* cruise 176/2, SEABEAM mapping and coring along the Pacific coast of Colombia and Panama.
- 2004 (Jun-Jul) Chief Scientist, *R/V Knorr* cruise 178, SEABEAM mapping and coring off Cape Hatteras, in the Sargasso Sea and in the Slope Waters.
- 2007 (Aug-Sep) Co-Chief Scientist, *R/V Knorr* cruise 191, sea trials at Bermuda Rise for the new long coring system.
- 2010 (Jul) Chief Scientist, *R/V Knorr* cruise 197/10, Azores to WH, long coring Mid-Atlantic Ridge, Tail and Slope of Grand Bank, Corner Seamounts, Laurentian Fan, Scotian Margin.
- 2010 (Aug) Chief Scientist, *R/V Knorr* cruise 198, long coring Gulf of Maine, and slope-rise south of the Cape and Islands.
- 2013 (Aug-Sept) Chief Scientist, *USCGC Healy* cruise 1302, surveying, mapping and coring southern Beaufort Sea between Barrow, AK and Amundsen Gulf, Canada.
- 2014 (May-June) Co-Chief Scientist, *R/V Endeavor* cruise 539, coring sediments in Nordic Sea overflows, south of Iceland.
- 2014 (June) Chief Scientist, *R/V Endeavor* cruise 540, coring basins on the Grand Bank, Newfoundland.
- 2016 (Sept-Oct), Senior Advisor, *R/V Merian* cruise 58, surveying, coring, plankton towing, hydrocasting, Reykjavik-Pta. Delgada, Azores.
- 2017 (Sept-Oct), Chief Scientist, *R/V Neil Armstrong* cruise 23-01, surveying, coring, plankton towing, hydrocasting, Woods Hole, MA to Pta. Delgada, Azores.

3. Other Professional Activities:

- National Research Council Panel on Pre-Pleistocene Climates, 1980.
- Joint Technical Program Committee, Geological Society of America, 1985-1987.
- Organizing Committee, 2nd International Conference on Paleoceanography, 1986.

Pole-Equator-Pole project advisory board (OPP, NSF), 1990.
 Ad Hoc Committee for planning Arctic cruise on U.S. Navy submarine, 1993.
 Meeting convener, The “White Submarine”: a nuclear –powered submarine dedicated to
 Earth, ocean and atmospheric research. AGU, Washington DC Sept 1994.
 Scientific Working Group, NOAA Atlantic Climate Change Program, 1995-1997.
 Editorial Board, Marine Micropaleontology, 1987 -1995.
 Editorial Board, Paleoceanography, 1986 -1999.
 Editorial Board, Geology, 1995-1999.
 Editorial Board, Quaternary Science Reviews, 1997-2003.
 Member, NSF Ocean Sciences (MG&G) Panel, November 1996.
 Member, NSF Arctic System Science (ARCSS) Advisory Committee, 1996-2002.
 AGU Committee on Paleoceanography, 1998-2001.
 Member, NSF Earth System History Panel, 2001.
 Member, German Research Council panel for the Excellence Initiative, 2006.
 Member, Norwegian Research Council ad hoc panel for IPY reassessment, 2007.
 Chair, Steering Committee, NERC Rapid Climate Change Programme, 2001-2008.
 Member, NSF Ocean Science (MG&G) Panel, November 2014.
 Co-Chair, NSF OCE committee on Recommendations for sediment coring on UNOLS
 vessels, 2015.

4. Professional Societies:

Fellow, American Geophysical Union
 Fellow, American Association for the Advancement of Science
 Canadian Quaternary Association
 U. S. Naval Institute

5. Military Experience:

Captain, U.S. Naval Reserve (ret.)
 Naval War College, Newport, RI, 1998-1999.
 Office of Naval Res., Wash., DC, 1996-1998.
 Naval War College, Newport, RI, 1995-1996.
 SPAWAR HQ OPS201, 1993-1995.
 Naval War College, Newport, RI, 1991-1993.
 Office of Naval Research Branch Office 101, Boston, 1983-1991
 LTJG USS DEALEY (DE-1006), 1969-1971.
 NROTC, Brown University, 1967-1969.