

## VITAE

### William G. Ambrose, Jr.

**PRESENT POSITION:** Program Director, Arctic Observing Network, National Science Foundation

**ADDRESS:** Office of Polar Programs  
National Science Foundation  
Arlington, VA

#### EDUCATION:

1982 University of North Carolina at Chapel Hill, Ph.D. in Marine Sciences  
1977 Princeton University, A.B. in Biology

#### LANGUAGES:

English: Native  
Norwegian: Advanced  
French: Intermediate

#### PROFESSIONAL EXPERIENCE:

2015-present	Program Director, Arctic Observing Network, National Science Foundation.
2005-present	Professor, Department of Biology, Bates College. (On leave June 2014-present)
2004-present	Adjunct Senior Scientist, Akvaplan-niva, Tromsø, Norway.
2014-2015	Visiting Professor, Department of Geology, Center for Arctic Gas Hydrate, Environment and Climate, University of Tromsø, Tromsø, Norway
2004-2006	Chairman, Department of Biology, Bates College.
2000-2005	Associate Professor, Department of Biology, Bates College.
2000-2001	Fulbright Professor, Department of Marine Biology and Chemistry, University of Oslo, Norway.
1994-1999	Assistant Professor, Department of Biology, Bates College.
1990-1994	Assistant Professor, Department of Biology and Assistant Scientist, Institute for Coastal and Marine Resources, East Carolina University.
1988-1990	Visiting Assistant Professor, Department of Biology and Assistant Scientist Institute for Coastal and Marine Resources, East Carolina University.

- 1986-1988 Assistant Professor, Maritime Studies Program, Williams College.
- 1986 (Spring Semester) Visiting Assistant Professor North Carolina at Chapel Hill and Research Associate, UNC Institute of Marine Sciences.
- 1984-1986 Royal Norwegian Council for Scientific and Industrial Research Postdoctoral Fellow, University of Oslo, Norway.
- 1982-1983 National Research Council, Postdoctoral Fellow Environmental Protection Agency, Newport, Oregon.
- 1977-1982 Research Assistant/Teaching Assistant, University of North Carolina at Chapel Hill and Institute of Marine Sciences.

**TEACHING EXPERIENCE:**

**Courses Taught**

- 1994-present Teacher: Marine Ecology, Oceanography, Ecology, Invertebrate Zoology, Experimental Marine Ecology, Seminar and Research in Marine Ecology, Sclerochronology, First Year Seminar, Junior/Senior Seminar, Geologic Studies in the Canadian Arctic, Bates College.
- 1988-1994 Teacher: Environmental Biology, Population and Community Ecology, Marine Community Ecology, Marine Biology, East Carolina University.
- 1988 (Summer Session) Lecturer: Marine Ecology, Marine Biological Laboratory
- 1988 (Winter Study Program) Teacher: The Arctic World, Williams College.
- 1987 Guest Lecturer: Arctic Ecology Geology and History, National Trust for Historic Preservation Northern Voyage of Rediscovery.
- 1986-1988 Teacher: Oceanography, Marine Ecology, and associated laboratories, Williams College.
- 1986 Co-teacher (with Peterson, C.H.): Marine Ecology, University of North Carolina at Chapel Hill.
- 1984 Teacher: Experimental Design and Statistical Analysis in Studies Involving the Scanning Electron Microscope and X-ray Microanalyser, University of Oslo, Norway.
- 1981 Teaching Assistant: Coastal Community Ecology, University of North Carolina at Chapel Hill and Institute of Marine Sciences.

**Students Advised**

Masters	David Syster (East Carolina University, 1993), Elizabeth Orlando (East Carolina University, 1994)
Honours Theses	Bates College: David Adler (1995), Ari Frielander (1996), Loren Hayes (1996), Kate Meltzer (2002), Kelton McMahon (2005), Luke Fienberg (2007), Carolyn Harris (2011), Hansen Johnson (2013)
Theses	Bates College: 54 non-honour theses, 1994-present

<b>Graduate Committees</b>	Elizabeth Irlandi (UNC Chapel Hill, 1993), Martin Thiel (Univ. Maine Orono, 1996), Wan-Jean Lee (Univ. New Hampshire, 2012), Emmelie Åstrøm (Univ. Tromsø, current), Peter Leopold (Univ. Tromsø, current)
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**HONORS AND AWARDS:**

2012	Alexander von Humbolt Gedächtnispreis (Alexander von Humbolt Memorial Prize), Senckenberg Society for Nature Research (co-winner).
2013	Nominee, Kroepsch Award for Excellence in Teaching at Bates College.
2005	Winner, Kroepsch Award for Excellence in Teaching at Bates College.
1998	Nominee, Kroepsch Award for Excellence in Teaching at Bates College.
1997	Nominee, Kroepsch Award for Excellence in Teaching at Bates College.
1977	Magna cum laude; Princeton University.

**FELLOWSHIPS:**

2009-2010	Phillips Fellowship, Bates College.
2000-2001	Fulbright Fellowship, University of Oslo.
1984	Royal Norwegian Council for Scientific and Industrial Research Fellowship.
1983	National Research Council Postdoctoral Fellowship
1980	R.J. Reynolds Research Fellowship.

**RESEARCH GRANTS:**

2016	Marine Department of Marine Resources “Growth and survival of sub-commercial sized Blood Worms ( <i>Glycera dibranchiate</i> )” (P.I. \$5000)
2014-2015	Maine Department of Marine Resources “Long-Term Sampling for Blood Worms ( <i>Glycera dibranchiata</i> ) at the Wiscasset Conservation Area and Cod Cove” (P.I. \$5000).
2014-2017	National Science Foundation “Collaborative research: Exploring the role of oceanic and atmospheric forcing on Arctic marine climate from newly developed annual shell-based records in coastal Norway” (Co. PI. \$810,000)

- 2014-2016 Maine Sea Grant Program: “Revisiting Age Determination in the American Lobster: Growth Estimates in Contrasting Thermal Regimes Based on Growth Bands in the Gastric Mill” (P.I. \$96,000)
- 2013-2018 Maine Department of Marine Resources “A new era in stock assessment of the American Lobster: Estimating age and modeling age-at-length relationships using a new direct aging technique” (Co. P.I. \$250,000)
- 2012-2015 Maine Sea Grant Program: “Spatial and Temporal Variation in the Growth of the Soft-Shell Clam (*Mya arenaria*) Along the Coast of Maine” (P.I. \$147,473).
- 2013-2014 Norwegian Department of Environmental Protection: “Direct age determination in crustaceans: development of skills and applying the method to study effects of environmental conditions on age-dependant population parameters in Barents Sea crabs and northern shrimp” (Co. P.I. \$54,000).
- 2013-2014 Norwegian Department of Environmental Protection: “Life on the edge - Blue mussels on Svalbard” (Co.P.I. \$66,666)
- 2012-2014 Norwegian Department of Environmental Protection: “Influence of pollution and climate variation in rivers and coastal waters indicated by freshwater and marine bivalves” (Co. P.I. \$121,000).
- 2011-2013 Norwegian Department of Environmental Protection: “Ecosystem Structure and Use of Marine Resources from Bivalve and Fish Bone Proxies” (Co. P.I. \$68,000).
- 2011-2012 Norwegian Department of Environmental Protection: “Developing an Exhibition at Polaria on Bivalve Behavior and Growth to Inform the Public about the Effects of Climate Change and Pollution in the Arctic” (Co. P.I. \$37,000).
- 2011-2012 The Research Council of Norway: “Remote Online Biosensors: Detection of Climate Change and Industrial Impact on Bivalve Behavior” (Co. P.I. \$500,000).
- 2011-2012 Statoil, Shell Oil Company, and ENI “Effects of Dispersed Oil on Shallow Water Barents Sea Species” (Co. P.I. \$416,000).
- 2010-2013 National Science Foundation: “Shetland Islands Climate and Settlement Project: Multidisciplinary Analysis of Environmental Catastrophes on Northern Coastlines” ARC-1026911(Co. P.I. \$257,324).
- 2009-2013 National Science Foundation: “Changes in baseline conditions in Gulf of Maine coastal ecosystems over the Last 4000 years” OCE-0929900 (Co. P.I. \$392,803).

- 2008-2009 Maine Department of Marine Resources Growth and long-term abundance patterns of the bloodworm (*Glycera dibranchiata*). (P.I. \$7000).
- 2008-2009 Maine Sea Grant Program: Growth and long-term abundance patterns of the bloodworm (*Glycera dibranchiata*) (P.I. \$49,000).
- 2007-2010 The Research Council of Norway: “Norwegian Component of the Ecosystem Studies of Subarctic and Arctic Regions” (Co. PI, 438,596)
- 2007-2010 The Research Council of Norway: “Diet and Reproductive Output in Arctic Mollusks: The importance of ice algae and phytoplankton” (Co. P.I, \$135,000).
- 2006-2007 Maine Department of Marine Resources: “Harvest Size, growth, and harvest efficiency of *Glycera dibranchiata*/from intertidal mud flats in mid-coast Maine” (P.I. \$2,500).
- 2006-2008 Maine Department of Marine Resources: “Frequency, intensity, and ecological consequences of blood worm (*Glycera dibranchiata*) harvesting on intertidal mudflats in Maine” (P.I. \$12,722).
- 2006-2008 Maine Sea Grant Program: “Frequency, intensity, and ecological consequences of blood worm (*Glycera dibranchiata*) harvesting on intertidal mudflats in Maine” (P.I. \$134,204).
- 2004 Maine Sea Grant Program: “Preliminary investigation of sediment disturbance from blood worm digging” (P.I. \$3000).
- 2003 The Research Council of Norway: “Environmental effects of offshore oil activities in the Norwegian Arctic: Experimental tests of petroleum-associated components on benthos at community, individual, and cellular levels” (Co. P.I. \$452,121).
- 2002 The Research Council of Norway: “Carbon flux and ecosystem feedback in the northern Barents Sea in an era of climate change (CABANERA)” (Foreign investigator, \$900,000).
- 2002 The Research Council of Norway "Life at the edge: Benthic communities at the Barents Sea ice edge in a changing climate (BASICC)" (Foreign investigator, \$150,000).
- 2002 National Science Foundation: “Digestibility of ice algae and phytoplankton: The potential impacts of changing food supply to the arctic benthos” OPP-0222423 (Co. P.I. \$124,000).
- 2001 National Science Foundation: Cultural Anthropology, Arctic Social Sciences, Arctic Natural Sciences Programs: “Investigating ecological change in the near-shore Kotzebue Sound Ecosystem: Simultaneous application of traditional and scientific knowledge” OPP-0138596 (Co. P.I. \$795,000).

- 1998 National Oceanic and Atmospheric Administration National Undersea Research Program: "Benthic response to early-season deposition of ice algae in the Chukchi Sea" (P.I. \$62,802, plus \$20,000 in system support).
- 1997 National Oceanic and Atmospheric Administration National Undersea Research Program: "Spatial patterns and benthic remineralization of ice algal communities in the Chukchi Sea" (P.I. \$5,740).
- 1996 NATO, Scientific Affairs Division: "NATO Advanced Research Workshop: Biogeochemical cycling in marine sediments" (Co. P.I. \$28,220).
- 1996 National Science Foundation, Division of Polar Programs: "Remineralization rates and benthic communities in the Arctic Ocean: spring conditions" (supplement to OPP-9400092, \$4,900).
- 1995 National Science Foundation, Division of Polar Programs: "Arctic Ocean Section Sediment Workshop" (Supplement to OPP-9400092, \$8,350).
- 1995 The American Scandinavian Foundation: "Predation on juvenile sea urchins by hapteric fauna" (\$2,000).
- 1995 Duke University- University of North Carolina Oceanographic Consortium: "Carbon cycling near the Charleston bump: relative importance of benthic macrofauna and sedimentary microbes" (P.I. \$40,115).
- 1995 Norwegian Marshall Fund: "Predation on juvenile sea urchins by hapteric fauna" (\$5,200).
- 1994-1997 National Science Foundation, Division of Polar Programs: "Role of biomass, bioturbation, and remineralization in determining the fate of carbon in the Arctic Ocean" OPP-9400092 (P.I. \$156,597).
- 1993-1994 National Science Foundation, Division of Polar Programs: "Isotopic analysis of food chain structure in the Northeast Water Polynya" (Supplement to DPP 9113756, \$8,428).
- 1992-1995 National Oceanic and Atmospheric Administration Sea Grant Program "Structure and function of continental shelf hard bottom fisheries habitat" R/CZS-27 (Co. P.I. \$161,616).
- 1992-1994 National Oceanic and Atmospheric Administration National Undersea Research Program: "Trophic linkages between soft-bottom and hard-bottom communities in Onslow Bay, North Carolina (Co. P.I. \$39,794).
- 1992-1993 Cooperative Institute for Fisheries Oceanography: "Role of nutrient rich submarine ground water discharge upon hard bottom habitats and reef fish recruitment: Onslow Bay, North Carolina (Co. P.I. \$20,925).

- 1991-1996 National Science Foundation, Division of Polar Programs: "Collaborative research on the Northeast Water Polynya: benthic community structure and reproductive patterns of benthic organisms" DPP 9113756 (P.I. \$254,311).
- 1991-1994 National Oceanic and Atmospheric Administration National Undersea Research Program: "Evolution of hard bottom morphotypes: Onslow Bay, North Carolina Continental Shelf" (Co. P.I. \$335,686).
- 1991-1992 Environmental Protection Agency, Albermarle Pamlico Estuarine Study: "Effects of trawling on benthic communities and non-target species" (P.I. \$4,070).
- 1991-1992 National Oceanic and Atmospheric Administration National Undersea Research Program: "Structure of soft-bottom communities associated with hard-substrate habitats in the south Atlantic bight" (P.I. \$15,000 plus ship time).
- 1990-1993 National Oceanic and Atmospheric Administration: "Accelerating and evaluating the development of restored and created sea grass ecosystems" (Co. P.I. \$83,795)
- 1990 National Oceanic and Atmospheric Administration National Undersea Research Program: "Structure of soft-bottom communities associated with hard-substrate habitats in the south Atlantic bight" (P.I. \$3,200 plus ship time).
- 1989-1990 University of North Carolina Coordinating Committee for Marine Programs: "Effect of attachment location on growth and survival of juvenile bay scallops, *Argopecten irradians*" (P.I. \$4,000).
- 1990 Eisenhower Mathematics and Science Program for Higher Education: "Environmental quality in the coastal plain: A focus on ecology where rivers meet the sea" (Co. P.I. \$19,948).
- 1989-1990 Pamlico River Task Force: "Environmental quality survey of Kennedy Creek and adjacent portions of the lower Tar and upper Pamlico Rivers: Effects of pollutants on benthic organisms" (P.I. \$9,482).
- 1989-1994 Texasgulf Inc.: "Fish and invertebrate utilization of man-made wetlands, and nursery area assessment of Long, Short, and Bond Creeks, Beaufort County, N.C." (Co. P.I. \$747,942).
- 1988-1990 University of North Carolina Sea Grant: "Feasibility test to replenish bay scallop populations and initiate bay scallop aquaculture" (P.I. \$12,097).
- 1988-1989 University of North Carolina Marine Science Coordinating Committee for Marine Programs: "Emergence behavior of demersal zooplankton" (P.I. \$3,600).
- 1987-1988 American Museum of Natural History Lerner-Gray Fund for Marine Research: "Field investigation of emergence behavior of demersal zooplankton" (P.I. \$620).

- 1984-1985 Norwegian Polar Institute Research Grant: "The distribution and abundance of infauna at Ny-Ålesund, Longyearbyen, and Agardh, Svalbard (Spitzbergen)" (Co. P.I. \$25,000).
- 1980-1982 National Science Foundation Doctoral Dissertation Research Grant: "The importance of predaceous polychaetes in organizing marine soft-bottom communities" OCE 79-19916 (\$8,800).
- 1979 University of North Carolina, graduate student research grant (\$2,000).

**PROFESSIONAL RESPONSIBILITIES:**

United States representative Sustained Arctic Observing Networks 2017-present

Review Editor, *Frontiers in Marine Science* 2014-present

Casco Bay Scientific and Technical Advisory Committee 2012-present

Editorial Board, *Journal Shellfish Research* 2010-present.

American Scandinavian Foundation Fellowship Committee 1996-2003, 2009-present

Maine Ecological Characterization Working Group, member 2003-2006.

Arctic Research Consortium of the United States, Student Research Committee 2001-2003.

Duke-North Carolina Oceanographic Consortium Program Advisory Committee 1990-1994.

Stonington Connecticut Shellfisheries Commission member 1986-1988.

**Conferences Organized:** Arctic Ocean Section Sediment Work Shop (Halifax, Canada 1996); 25th Annual Benthic Ecology Meeting (Portland, Maine, 1997), NATO Advanced Research Work Shop (Hell, Poland, 1997), 39<sup>th</sup> Arctic Workshop (Lewiston, Maine, 2009), New England Estuarine Research Society (Spring Meeting, 2013)

**Review Panels:** National Undersea Research Program, Middle Atlantic Bight Center 1994, 1995; West Coast and Alaska Center 1999, Northeast Fisheries Consortium 2004, Maine- New Hampshire Sea Grant 2004, National Estuarine Graduate Research Fellowship Program 2004, American Scandinavian Foundation Fellowship Committee 1996-2003; 2009-present.

**Manuscript Reviewer:** *American Zoologist, Annals Zoologica Fennici, Ecology, Estuarine, Coastal and Shelf Science, Continental Shelf Research, Deep Sea Research, Ecology, Fish and Fisheries, Frontiers in Marine Science, Journal of Experimental Marine Biology and Ecology, Journal of the Marine Biological Association of the United Kingdom, Journal of Marine Systems, Journal of Shellfish Research, Journal of Applied Ecology, Limnology and Oceanography, Marine Biology, Marine Biology Research, Marine Ecology Progress Series, Oecologia, Oikos, Ophelia, PlosOne, Polar Biology.*

**PAPERS PRESENTED:**

- 2017 European Geosciences Union (Vienna, Austria)  
2017 Arctic Frontiers (Tromsø, Norway)



- 2016 13<sup>th</sup> International Conference on Gas in Marine Sediments (Tromsø, Norway)
- 2016 Benthic Ecology Meetings (Portland, Maine)
- 2016 European Geosciences Union (Vienna, Austria)
- 2016 Gordon Research Conference in Natural Gas Hydrate System (Galveston)
- 2015 American Geophysical Union (San Francisco, California)
- 2015 Benthic Ecology Meeting (Quebec City, Canada)
- 2015 Arctic Frontiers (Tromsø, Norway)
- 2014 American Geophysical Union (San Francisco, California)
- 2014 Benthic Ecology Meeting (Jacksonville, Florida)
- 2014 Alaskan Marine Science Symposium (Fairbanks, Alaska)
- 2014 Bivalves in the Arctic Workshop (Tromsø, Norway)
- 2014 Ocean Sciences Meeting (Honolulu, Hawaii)
- 2013 XIII Nordic Theoretical Arctic Group (Reykjavík, Iceland)
- 2013 3<sup>d</sup> International Sclerochronology Conference (Mainz, Germany).
- 2013 Northeast Estuarine Society Meeting (Portland, ME)
- 2013 Arctic Days (Brest, France)
- 2013 Pollutant Responses in Marine Organisms, (Portugal)
- 2013 Benthic Ecology Meeting (Savannah, GA)
- 2013 Arctic Frontiers (Tromsø, Norway)
- 2012 Arctic Frontiers (Tromsø, Norway).
- 2012 International Polar Year (Montreal, Canada).
- 2012 American Geophysical Union (Salt Lake City, UT).
- 2012 15<sup>th</sup> Norwegian Russian Symposium (Longyearbyen, Svalbard).
- 2012 Benthic Ecology Meeting Session Chairman (Norfolk, VA).
- 2012 New England Estuarine Research Society (Plymouth, MA).
- 2012 21<sup>st</sup> Biennial Conference of the Estuarine Research Federation (Daytona Beach, FL).
- 2011 Benthic Ecology Meeting, (Mobile, AL).
- 2011 American Geophysical Union (San Francisco, CA).
- 2011 Ecosystem Studies of Sub-Arctic Seas (Seattle, WA).
- 2010 2<sup>nd</sup> International Sclerochronology Conference (Mainz, Germany).
- 2010 Arctic Frontiers (Tromsø Norway).
- 2010 International Polar Year Oslo (Oslo, Norway).
- 2009 Benthic Ecology Meetings (Corpus Christi, TX).
- 2009 European Geophysical Union (Vienna, Austria).
- 2009 Arctic Workshop (Lewiston, ME).
- 2009 Western Alaskan Interdisciplinary Conference (Nome, AK).
- 2009 Arctic Frontiers (Tromsø, Norway.)
- 2008 American Society of Oceanography and Limnology, (Orlando, FL)
- 2008 International Society of Petroleum Engineers Conference on Health, Safety and Environment in Oil and Gas Exploration and Production (Nice, France).
- 2008 International Council for Exploration of the Sea (Halifax, Canada).
- 2008 American Society Limnology and Oceanography (Nice, France).
- 2007 1<sup>st</sup> Annual Sclerochronology Conference (St. Petersburg, FL).
- 2007 Arctic Forum (Tromsø Norway).
- 2007 England Estuarine Research Society Spring Meeting (Boothbay Harbor, ME).
- 2007 American Chemical Society National Meeting (Boston, MA).
- 2006 American Geophysical Union, Annual Meeting (Honolulu HI).

- 2006 Benthic Ecology Meeting (Quebec City, Canada).
- 2005 Benthic Ecology Meetings (Williamsburg, VA).
- 2005 American Fisheries Society 135<sup>th</sup> Annual Meeting (Anchorage, AK).
- 2005 Estuarine Research Federation, Biennial Meeting (Norfolk).
- 2004 American Association of Oceanography and Limnology (Honolulu, HI).
- 2004 Benthic Ecology Meetings (Mobile AL).
- 2003 Benthic Ecology Meetings (Groton, CT).
- 2002 Benthic Ecology Meetings (Orlando, FL).
- 2002 Northeast Estuarine Society Meeting (Bar Harbor, ME).
- 2000 Benthic Ecology Meetings (Wilmington, NC).
- 1999 Benthic Ecology Meetings (Baton Rouge, LA).
- 1999 American Society of Limnologists and Oceanographers (Santa Fe, NM).
- 1998 Benthic Ecology Meetings (Melbourne, FL).
- 1997 Benthic Ecology Meetings (Portland, ME).
- 1996 American Geophysical Union (San Diego, CA).
- 1996 Benthic Ecology Meetings (Columbia, SC).
- 1995 Northeast Water Polynya Symposium, Session Chairman (Helsingør, Denmark).
- 1995 Society of Sedimentary Geology (St. Petersburg, FL).
- 1994 Benthic Ecology Meetings (Mystic, CT).
- 1994 European Marine Biological Symposium (Vienna, Austria).
- 1993 Benthic Ecology Meetings (Mobile, AL).
- 1993 The Oceanographic Society (Seattle, WA).
- 1993 American Society of Limnology and Oceanography (Alberta, Canada).
- 1992 Benthic Ecology Meetings, Session Chairman (Newport, RI).
- 1990 Benthic Ecology Meetings, Session Chairman (Mobil, AL).
- 1990 National Shellfisheries Association Annual Meeting (Williamsburg, VA).
- 1990 European Marine Biological Symposium (Ferrara, Italy).
- 1989 7<sup>th</sup> International Pectinid Workshop (Portland, ME).
- 1989 Benthic Ecology Meetings (Solomons, MD).
- 1989 European Marine Biological Symposium (Oban, Scotland).
- 1987 Benthic Ecology Meetings, Session Chairman (Raleigh, NC).
- 1985 European Marine Biological Symposium (Hirtshals, Denmark).
- 1983 European Marine Biological Symposium (Plymouth, England).
- 1980 New England Estuarine Research Federation Meetings (Southport, ME).
- 1977 Benthic Ecology Meetings (New Haven, CT).

**INVITED SEMINARS:**

- 2014 College of William and Mary, Virginia Institute Marine Sciences
- 2013 Department of Marine Science, University of New England
- 2010 Alfred Wegner Institute for Marine Research, Bremerhaven, Germany.
- 2007 Arctic Frontiers, Tromsø, Norway.
- 2006 Department of Biology Bowdoin College.
- 2003 Department of Marine Science, University of New Hampshire.
- 2001 Åbo Akademi, Univestiy Abo, Finland.
- 2001 Norwegian Polar Institute, Akvaplan-Niva, Tromsø Norway.
- 2001 Institute for Polar Ecology, University of Kiel, Kiel Germany.

- 2001 Alfred Wegner Institute for Marine Research, Wadden Sea Research Station, Sylt Germany.
- 2000 Program in System Ecology, University of Stockholm.
- 1998 School of Oceanography, Maine Maritime Academy.
- 1997 Department of Biology, Colby College.
- 1997 Department of Oceanography, University of Maine at Orono.
- 1996 Maine Department of Marine Resources.
- 1994 Department of Biology, Bates College.
- 1994 Southeastern Coastal Ocean Research Meeting, Key-note address.
- 1993 Department of Marine Zoology and Marine Chemistry, University of Oslo.
- 1992 Department of Biological Sciences, University of North Carolina at Wilmington.
- 1992 Symposium on Norwegian and Greenland Seas: Institute for Polar Ecology, University of Kiel, Key-note address.
- 1991 Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University
- 1990 North Carolina Shellfish Culture Conference.
- 1990 American Society of Zoologists: "New perspectives in soft-sediment ecology"
- 1989 Department of Agriculture and Fisheries of Scotland.
- 1988 Department of Biology, East Carolina University.
- 1987 Marine Science Institute, Northeastern University.
- 1987 Marine Sciences Department, University of Connecticut at Storrs.
- 1986 Department of Biology, Williams College.
- 1986 Department of Zoology, University of Texas at Austin.
- 1986 Biology Department, Rider College.
- 1985 Department of Marine Zoology and Marine Chemistry, University of Oslo.
- 1984 Department of Zoology, University of Stockholm.
- 1983 Department of Oceanography, Oregon State University.
- 1982 Department of Biology, Williams College.
- 1982 Bigelow Laboratory for Ocean Sciences.

## PUBLICATIONS:

- In Review McMahan, K.W., Reynolds, M.J., Johnson, B.J., Ambrose, W.G. Jr., and Clough, L.M. Terrestrial organic matter fuels a high Arctic marine food web.
- 2017 Åström, E.K.L., Carroll, M.L., Ambrose, W.G. Jr., Sen, A., Silyakova, A., and Carroll, J. Methane Cold Seeps as a Biological Oasis in the High-Arctic Deep Sea. *Limnology and Oceanography*, **In Press**.
- 2017 Harris, C.M., Ambrose, W.G. Jr., Bigelow, G.F., Locke, W., and Silverberg, S.M.B. Analysis of the Size, Shape, and Modeled Age of Common Limpets (*Patella vulgata*) from Late Norse Middens at Sandwick, Unst, Shetland Islands, UK: Evidence for Anthropogenic and Climatic Impacts. *Journal of Island and Coastal Archaeology*, **In Press**.
- 2016 Vihtakari, M., Ambrose, W.G. Jr., Renaud, P.E., Locke, W.L. V., Carroll, M.L., Berge, J., Clarke, L.J., Cottier, F., and Hop, H. A Key to the past? Element ratios as

- environmental proxies in two Arctic bivalves. *Paleogeography, Paleoclimatology, Palaeoecology* 465 (B):316-332. DOI.org/10.1016/j.palaeo.2016.01.020
- 2016 Hong, We-Li, Simone, S., Panieri, G., Ambrose, W.G. Jr., Plaza-Faverola, A. and Schneider, A. Removal of methane through hydrological, microbial, and geochemical processes in the shallow sediments of pockmarks along eastern Vestnesa Ridge (Svalbard). *Limnology and Oceanography* DOI: 10.1002/lno.10299
- 2016 Åström, E.K.L., Carroll, M.L., Ambrose, W.G. Jr., Carroll, J. Arctic cold seeps in marine methane hydrate environments: Impacts on shelf macrobenthic community structure offshore Svalbard. *Marine Ecology Progress Series* 552:1-18. doi: 10.3354/meps11773.
- 2016 Mette, M., Wanamaker Jr., A.D., Carroll, M., Ambrose, Jr., W.G. Jr. and Retelle, M. Large-scale climate dynamics influence *Arctica islandica* shell growth and geochemistry in northern Norway. *Limnology and Oceanography*. 61:748-764 doi: 10.1002/lno.10252
- 2016 Vihtakari, M., Renaud, P.E., Clarke, L.J., Whitehouse, M.J., Carroll, M.L., and Ambrose, W.G. Jr. Decoding the oxygen isotope signal for seasonal growth patterns in Arctic bivalves. *Palaeogeography, Palaeoclimatology, Palaeoecology* 446:263-283. <http://dx.doi.org/10.1016/j.palaeo.2016.01.008>.
- 2016 Ambrose, W.G., Jr., Locke, W.L., V., Bigelow G.F, and Renaud, P.E. Deposition of annual growth lines in the apex of the common limpet (*Patella vulgata*) from Shetland Islands, UK, and Norway: evidence from field marking and shell mineral content of annual line deposition. *Environmental Archaeology: The Journal of Human Palaeoecology* 21:79-87. doi:10.1179/1749631414Y.0000000058.
- 2016 Frantzen, M., Regoli, F., Ambrose, W.G. Jr., Nahrgang, J., Geraudie, P., Benedetti, M., Locke, W., V. and Camus, L. Biological effects of mechanically and chemically dispersed oil on the Icelandic Scallop (*Chlamys islandica*). *Ecotoxicology and Environmental Safety*. 127:95-107.
- 2015 Ambrose, W.G. Jr., Panieri, G., Schneider, A., Plaza-Faverola, A., Carroll, M.L. Åström, E., Locke W. L. IV, and Carroll, J. Bivalve shell horizons in seafloor pockmarks of the last glacial-interglacial transition: a thousand years of methane emissions in the Arctic Ocean. *Geochemistry, Geophysics, Geosystems* 16, 4108-4129. doi:10.1002/2015GC005980.
- 2015 Ambrose, W.G., Jr., Fisher, J.L. Locke, W.L., V, Hamilton, N.D., and Levitt, J. Harvest of the soft-shell clam (*Mya arenaria*) by Malaga Island, Maine, Residents from 1865-1912 occurred primarily in the fall and winter based on incremental growth assessment. *Journal of Island and Coastal Archaeology* doi:10.1080/15564894.2015.1052864.

- 2015 Jørgen Berge, Malin Daase, Paul E. Renaud, William G. Ambrose, Jr., Gerald Darnis, Kim S. Last, Eva Leu, Jonathan H. Cohen, Geir Johnsen, Mark A. Moline, Finlo Cottier, Øystein Varpe, Natalia Shunatova, Piotr Balazy, Nathalie Morata, Jean-Charles Massabuau, Stig Falk-Petersen, Ksenia Kosobokova, Clara J.M. Hoppe, Jan Marcin Węśławski, Piotr Kuklinski, Joanna Legeżyńska, Daria Nikishina, Marine Cusa, Monika Kędra, Maria Włodarska-Kowalczyk, Daniel Vogedes, Lionel Camus, Damien Tran, Emma Michaud, Tove M. Gabrielsen, Andrei Granovitch, Anya Gonchar, Rupert Krapp, and Trine A. Callesen. Unexpected levels of biological activity during the polar night offer new perspectives on a warming Arctic. *Current Biology* 25: 2555-2561  
<http://dx.doi.org/10.1016/j.cub.2015.08.024>
- 2015 Williams, L.M., Nivison, C.L., Ambrose, W.G. Jr., Dobbin, R., and Locke, W.L. Lack of adult novel northern lineages of the invasive green crab, *Carcinus maenus*, along much of the northern United States Atlantic Coast? *Marine Ecology Progress Series* 532:153-159.
- 2015 Johnson, H.D., Stafford, K.M. George, J.C., Ambrose, W.G. Jr., Clark, and C.W. Song diversity in the Bering-Chukchi-Beaufort population of bowhead whales (*Balaena mysticetus*) spring 2011. *Marine Mammal Science* 31:902-922  
doi:10.1111/mms.12196
- 2014 Ambrose, W.G. Jr., Clough, L.M., Johnson, J.C., Griffith, D., Carroll, M.L., Greenacre, M., and Whiting, A. Interpreting local environmental change in coastal Alaska using traditional and scientific ecological knowledge. *Frontiers in Marine Science* 1:40 doi:10.3389/fmars.2014.00040
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