

**S. Bradley Moran, Ph.D.**



- Conceived and led the Green the Knowledge District project and secured private and public support for the 2011 IBM Smarter Cities Challenge Award to the City of Providence.
- Led the strategic planning of energy and environment initiatives as Co-Chair of the Energy Efficiency Working Group of the Green Economy Network for the Rhode Island Economic Development Council.

**Professor of Oceanography, University of Rhode Island**

**12/93 -**



- 2011 Panelist, National Science Foundation Major Research Instrumentation Program
- 2010 - 12 Co-Chair, Energy and Environment Collaboratory, Rhode Island Ocean State Consortium for Advanced Resources
- 2010 - 12 Member, Senior Advisory Council, Rhode Island Sea Grant Program
- 2010 - 11 Member, Steering Committee, Rhode Island NSF Experimental Program to Stimulate Competitive Research
- 2010 - 11 Co-Director, Regional Earth Systems Center, University of Rhode Island
- 2010 Panelist, Green Economy Network,

1991 - 92 Woods Hole Oceanographic Institution Postdoctoral Scholarship  
1990 - 92 NSERC of Canada Postdoctoral Fellowship  
1985 - 90 Dalhousie University Graduate Fellowship

2017

- 2015 Smith, J.N., R. Brown, B. Williams, M. Robert, R. Nelson, S.B. Moran, Ocean current transport of Fukushima radioactivity to North America. *Journal of Geophysical Research*, 43(2), 51-56.
- 2014 Baumann, M.S., S.B. Moran, M.W. Lomas, R.P. Kelly, D.W. Bell and J.W. Krause, Diatom control of the autotrophic community and particle export in the eastern Bering Sea during the recent cold years (2008-2010). *Journal of Geophysical Research*, 72(6), 405-444.
- 2014 Gómez-Guzmán, J.M. P. Cámara-Mor, T. Suzuki, J.M. López-Gutiérrez, J.L. Más, P. Masqué, S.B. Moran and J.N. Smith. New insights on the role of sea ice in intercepting atmospheric pollutants using  $^{129}\text{I}$ . *Journal of Geophysical Research*, 89, 180-190.
- 2014 Cross, J.N., J.T Mathis, M.W. Lomas, S.B. Moran, M.A. Baumann, D.H. Shull, C.W. Mordy, N.R. Bates, P.J. Stabeno, J.M. Grebmeier, Integrated assessment of the carbon budget in the Southeastern Bering Sea. *Journal of Geophysical Research*, 109, 112-124.
- 2014 Choi, H.Y., G.M. Stewart, M.W. Lomas, R.P. Kelly, S.B. Moran, Linking the distribution of  $^{210}\text{Po}$  and  $^{210}\text{Pb}$  with plankton community along Line P, Northeast Subarctic Pacific. *Journal of Geophysical Research*, 138, 390-401.
- 2014 Smith, J.N., P.A. Yeats, S.E. Knowlton, and S.B. Moran, Comparison of





- 2011 Smith, J.N., F. McLaughlin, W.M. Smethie Jr., S.B. Moran and K. Lepore,  $^{129}\text{I}$ ,  $^{137}\text{Cs}$  and CFC-11 tracer transit time distributions in the Arctic Ocean. *Journal of Geophysical Research*, 116, C04024, doi:10.1029/2010JC006471.
- 2011 Stewart, G.M., S.B. Moran, M.L. Lomas, and R.P. Kelly, Direct comparison of  $^{210}\text{Po}$ ,  $^{234}\text{Th}$ , and particle-size distributions and export fluxes at the Bermuda Atlantic Time-series Site. *Journal of Geophysical Research*, 102, 479-489.
- 2010 Mathis, J.T., J.N. Cross, N.R. Bates, S.B. Moran, M.W. Lomas, and P.J. Stabeno, Seasonal distribution of dissolved inorganic carbon and net community production on the Bering Sea shelf. *Journal of Geophysical Research*, 7, 1769-1787.
- 2010 Weinstein-Knowlton, S.E. and S.B. Moran, Stable Pb isotope ratios in aerosols, precipitation and size-fractionated particulate matter in the Gulf of Maine, Scotian Shelf and Labrador Sea. *Journal of Marine Research*, 10.1016/j.marpolbul.2010.02.005.
- 2010 Cai, P., M.M. Rutgers van der Loeff, I. Stimac, E.-M. Notig, K. Lepore and S.B. Moran, Low export flux of particulate organic carbon in the central Arctic Ocean as revealed by  $^{234}\text{Th}/^{238}\text{U}$  disequilibrium. *Journal of Geophysical Research*, 115, C10037, doi:10.1029/2009JC005595.
- 2010 Stewart, G.M., S.B. Moran, and M.L. Lomas, Seasonal POC fluxes at BATS estimated from  $^{210}\text{Po}$  deficits. *Journal of Geophysical Research*, 57(1), 113-124.
- 2009 Brew, H., S.B. Moran, M.W. Lomas and A.B. Burd, Plankton community structure, organic carbon and thorium-234 particle size-distributions, and particle export in the Sargasso Sea. *Journal of Geophysical Research*, 67, 845-868.
- 2009 Boes, X., S.B. Moran, J. King, N. Catagay and A. Hubert-Ferrari, Records of large earthquakes in lake sediments along the North Anatolian Fault, Turkey. *Journal of Geophysical Research*, DOI 10.1007/s10933-009-9376-x.
- 2009 Lepore, K., S.B., Moran, A.B. Burd, G. Jackson, J.N. Smith, M.L. Lomas, R.P. Kelly, H. Kaberi, S. Stavrakakis and G. Asimakopoulou, Sediment trap and in-situ pump size-fractionated POC/ $^{234}\text{Th}$  ratios in the Mediterranean Sea and North Atlantic: implications for POC export. *Journal of Geophysical Research*, 56, 599



- carbon to thorium-234: what do they tell us and how can they be used to estimate sinking fluxes out of the upper ocean 100, 213-233.
- 2006 Smith, J.N., S.B. Moran, and E.A. Speicher, On the accuracy of upper ocean particulate organic carbon export fluxes estimated from  $^{234}\text{Th}/^{238}\text{U}$  disequilibrium. 53, 860-868.
- 2005 Cooper, L.W., I.L. Larsen, J.M. Grebmeier and S.B. Moran, Detection of rapid deposition of sea ice-rafted material to the Arctic Ocean benthos using the cosmogenic tracer  $^7\text{Be}$ .

- 2004 Moran, S.B., S.E. Weinstein, H.N. Edmonds, J.N. Smith, R.P. Kelly, M.E.Q. Pilson and W.G. Harrison, Rejoinder to comment: Uncertainty versus variability in upper ocean carbon fluxes. 49(4) 1221-1223.
- 2003 Moran, S.B., S.E. Weinstein, H.N. Edmonds, J.N. Smith, R.P. Kelly, M.E.Q. Pilson and W.G. Harrison, Does  $^{234}\text{Th}/^{238}\text{U}$  disequilibrium provide an accurate record of particulate organic carbon export flux from the upper ocean? 48(3), 1018-1029.
- 2003 Shen, C.-C., H. Cheng, R.L. Edwards, S.B. Moran, H.N. Edmonds, J.A. Hoff and R.B. Thomas, Measurement of attogram quantities of  $^{231}\text{Pa}$  in dissolved and particulate fractions of seawater by isotope dilution thermal ionization mass spectroscopy. 75(5), 1075-1079.
- 2003 Smith, J.N., S.B. Moran and R.W. MacDonald, Shelf-basin interactions in the Arctic Ocean based on  $^{210}\text{Pb}$  and Ra isotope tracer distributions 50, 397-416.
- 2002 Moran, S.B., Shen, C.-C., Edmonds, H.N., Weinstein S.E., J.N. Smith and R.L. Edwards, Dissolved and particulate  $^{231}\text{Pa}$  and  $^{230}\text{Th}$  in the Atlantic Ocean: constraints on intermediate/deep water age, boundary scavenging and  $^{231}\text{Pa}/^{230}\text{Th}$  fractionation. 203/3-4, 999-1014.
- 2002 Kelly, R.P. and S.B. Moran, Seasonal changes in groundwater input to a well-mixed estuary estimated using radium isotopes and implications for coastal nutrient budgets. 47, 1796-1807.
- 2002 Shen, C.-C., Edwards R.L., Cheng, H, Dorale, J.A., Thomas, R.B., Moran S.B., Weinstein, S.E. and H.N. Edmonds, Uranium and thorium isotopic concentration measurements by magnetic sector inductively coupled plasma mass spectrometry. 185/3-4, 165-178.
- 2001 Moran, S.B., Shen, C.-C., Weinstein, S.E., Hettinger, L.H., Hoff, J.H., Edmonds, H.N. and R.L. Edwards, Constraints on deep water age and particle flux in the Equatorial and South Atlantic based on seawater  $^{231}\text{Pa}$  and  $^{230}\text{Th}$  data. 28 (18), 3437-3440.
- 2001 Charette, M.A., S.B. Moran, S.M. Pike, and J.N. Smith, Investigating the carbon cycle in the Gulf of Maine using the natural tracer thorium

2001 Scott, M.K. and S.B. Moran, Groundwater input to coastal salt ponds of southern Rhode Island estimated using  $^{226}\text{Ra}$  as a tracer. 54(1), 163-174.

2000 Cochran J.K, S.B. Moran,

- 1998 Gustafsson, O., K.O. Buesseler, W.R. Geyer, S.B. Moran and P.M. Gschwend, An assessment of the relative significance of horizontal and vertical transport of particle-reactive chemicals in the coastal ocean. 18, 805-829.
- 1997 Moran, S.B. and W.L. Woods, Cd, Cr, Cu, Ni and Pb in the water column and sediments of the Ob-Irtysh Rivers, Russia. 35(7-12), 270-279.
- 1997 Moran, S.B., Ellis K.M. and Smith J.N.,  $^{234}\text{Th}/^{238}\text{U}$  disequilibrium in the central Arctic Ocean: implications for particulate organic carbon export. 44(8), 1593-1606.
- 1997 Smith, J.N., Ellis K.M., Kilius L., Moran S.B., Polyak L., Ivanov G., The transport of  $^{129}\text{I}$  and  $^{137}\text{Cs}$  from European reprocessing plants through the Kara Sea. 32(C2), 97-103.
- 1997 Moran, S.B., Ellis K.M., Smith J.N.,  $^{234}\text{Th}/^{238}\text{U}$  disequilibrium in the central Arctic Ocean. 32(C2), 169-175.
- 1997 Moran, S.B., J.A. Hoff, R.L. Edwards, M.A. Charette and W.M. Landing, Distribution of  $^{230}\text{Th}$  in the Labrador Sea in relation to ventilation. 150(1/2), 151-160.
- 1997 Greenamoyer, J.M. and S.B. Moran, Investigation of Cd, Cu, Ni and  $^{234}\text{Th}$  in the colloidal size range in the Gulf of Maine. 57, 217-226.
- 1997 Pike, S.M. and S.B. Moran, Use of Poretics 0.7  $\mu\text{m}$  glass fiber filters for determination of particulate organic carbon and nitrogen in aquatic systems. 57, 355-360.
- 1996 Buesseler, K.O., J. Bauer, 0.0051 BT 50 lass BEglintn, B. Oustafsson, ooM. Labding, LK

- 1993 Moran, S.B. and Buesseler K.O., Size-fractionated  $^{234}\text{Th}$  in continental shelf waters off New England: implications for the role of colloids in oceanic trace metal scavenging. 51:4, 893-922.
- 1992 Yeats, P.A., Dalziel J. and Moran S.B., A comparison of dissolved and particulate manganese and aluminum distributions in the western North Atlantic. 15, 609-619.
- 1992 Moran, S.B. and Buesseler K.O., Short residence time of colloids in the upper ocean estimated from  $^{238}\text{U}/^{234}\text{Th}$  disequilibria. 359, 221-223.
- 1992 Moran, S.B. and Moore R.M., Kinetics of the removal of dissolved aluminum by diatoms in seawater: A comparison with thorium. 56, 3365-3374.
- 1992 Moran, S.B., Moore R.M. and Westerlund S., Dissolved aluminum in the Weddell Sea. 39, 537-547.
- 1991 Moran, S.B. and Moore R.M., The potential source of dissolved aluminum from resuspended sediments to the North Atlantic Deep Water. 55, 2745-2751.
- 1989 Wangersky, P.J., Moran S.B., Pett R.J., Slauenwhite D.E. and Zhou X., Biological control of trace metal residence times: an experimental approach. 28, 215-226.
- 1989 Moran, S.B. and Moore R.M., The distribution of colloidal aluminum and organic carbon in coastal and open ocean waters off Nova Scotia. 53, 2519-2527.
- 1988 Moran, S.B. and Moore R.M., Temporal variations in dissolved and particulate aluminum during a spring bloom. 27, 205-215.
- 1988



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- 2009 Moran, S.B., M.M. Higgins, D.E. Rosen, Educating future business leaders in the strategic management of global change opportunities: The Blue MBA. In *Management Education for Global Sustainability*, (Eds. C. Wankel and J.A.F. Stoner), Information Age Publishing, pp. 227-241.
- 2003 Wassmann, P., E. Bauerfeind, M. Fortier, M. Fukuchi, B. Hargrave, S.B. Moran, T. Noji, E.-M. Nöthig, K. Olli, R. Peinert, H. Sasaki, V. P. Shevchenko, Particulate organic carbon flux to the Arctic Ocean sea floor. In:  
(Eds. R. Stein and R.W. Macdonald), Springer-Verlag, Heidelberg-Berlin-New York, pp 102-138.
- 1996 Ellis, K.M., Nelson R.P., Smith J.N. and Moran S.B., Artificial radionuclides in the Arctic Ocean. In  
(Eds. W. Tucker and D. Cate). CRREL Special Report 96-23, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH.
- 1996 Moran, S.B., Ellis K.M., Nelson R.P. and Smith J.N., Thorium isotopes as tracers of scavenging and particle cycling in the Arctic Ocean. In  
(Eds. W. Tucker and D. Cate). CRREL Special Report 96-23, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, pp. 29-31.
- 1995 Ellis, K.M., Smith J.N., Nelson R.P., Kilius L., MacDonald R.W., Carmack E., and Moran S.B., Distribution of artificial radionuclides in the Arctic Ocean from the 1994 Arctic Ocean Section. In . Scientific Committee of the International Conference on Environmental Radioactivity in the Arctic (Eds. P. Strand and A. Cooke), pp. 204-207.
- 1995 Moran, S.B., Cochran J.K., Fisher N.S. and Kilius L.R., <sup>129</sup>I in the Ob River. In . Scientific Committee of the International Conference on Environmental Radioactivity in the Arctic (Eds. P. Strand and A. Cooke), pp. 75-78.
- 1991 Moran, S.B., The application of cross-flow filtration to the collection of colloids and their

J. Sanchirico, M.J. Spalding, L.D. Talley, R.S. Winokur and G.C. Young. Committee on Cross-Cutting Themes for U.S. Contributions to the Ocean Decade. A Consensus Study Report of the National Academies of Sciences, Engineering and Medicine. , Washington, DC.

- 2021 Sternberg. J.C., J.H. Edmondson and S.B. Moran. Towards ocean-centric climate adaptation in the Arctic. , December 2021.
- 2020 Moran, S.B. A merger will help meet Alaska's fisheries, ocean sciences needs. Community Perspective, , June 15, 2020.
- 2017 Moran, S.B. and J. Cladouhos. Alaska stands to gain by boosting its blue economy. Commentary, , September 18, 2017.
- 2017 Moran, S.B. and J. Cladouhos. Building the Alaska blue economy. . Op-



- 2019 Testimony, “UAF College of Fisheries and Ocean Sciences: Building Alaska’s Blue Economy”. Alaska House Fisheries Committee, Juneau, AK, March 5, 2019.
- 2019 Testimony, “UAF College of Fisheries and Ocean Sciences: Building Alaska’s Blue Economy”. Alaska House Resources Committee, Juneau, AK, March 4, 2019.
- 2019 Testimony, “UAF College of Fisheries and Ocean Sciences: Building Alaska’s Blue Economy”. Alaska Senate Resources Committee, Juneau, AK, March 4, 2019.
- 2018 Plenary Presentation, “Using R/V \_\_\_\_\_ as a broader impacts platform”. Arctic Researchers and Informal Science Education (ARISE) Workshop, University of Rhode Island, October 11, 2018.
- 2018 Presentation: “UAF College of Fisheries and Ocean Sciences: opportunities for research collaboration”. Sandia National Laboratory, Albuquerque, NM, August 16, 2018.
- 2018 Panelist: “Alaska Industry”, Alaska National Lab Day, University of Alaska Fairbanks, Fairbanks, AK, May 30, 2018.
- 2018 Moderator, “Case Study: Interagency Partnering and Coordination”. Consortium for Ocean Leadership Public Policy Forum, Washington, DC, March 7, 2018.
- 2018 Testimony, “UAF College of Fisheries and Ocean Sciences”. Alaska House Fisheries Committee, Juneau, AK, February 22, 2018.
- 2018 Panelist, “Ocean Cluster Panel”. Juneau Economic Development Council Innovation Summit, Juneau, February 22, 2018.
- 2018 Lecture, “UAF College of Fisheries and Ocean Sciences: Opportunities for Collaboration”. Alfred Wegener Institute, Bremerhaven, Germany, February 8, 2018.
- 2018 Presentation, “R/V \_\_\_\_\_ Operations”. Arctic Research Icebreaker Consortium (ARICE) Kick-Off Meeting and 1<sup>st</sup> ARICE General Assembly, German Maritime Museum, Bremerhaven, Germany, February 6, 2018.
- 2017 Invited presentation, “R/V \_\_\_\_\_ Operations”, 7<sup>th</sup> Symposium on the Impact of an Ice-Diminishing Arctic on Naval and Maritime Operations. Washington, DC, July 18-20, 2017.
- 2017 Adventures of \_\_\_\_\_ : Living and Working on a Research Ship, Discover Alaska Lecture Series, Fairbanks, AK, June 21, 2017.

- 2016 Moderator, Ocean Industry Forum, Consortium for Ocean Leadership, Washington, DC, October 26, 2016.
- 2016 Moderator, Ocean Sciences Educators Retreat, Baton Rouge, LA, October 5-6, 2016.
- 2016 Keynote Talk, Perspectives on Ocean Sciences, Policy and Lessons Learned, Early Career Arctic Policy Workshop, Arctic Summit Science Week, Fairbanks, AK, March 14, 2016.
- 2015 Presentation, “Arrival of Fukushima radioactivity offshore North America”, School of Coastal and Marine Systems Science, Coastal Carolina University, Conway, SC, April 23, 2015.
- 2014 Panelist, “Technological Development and Innovation in the Blue Economy”, Perspectives on the Blue Economy: U.S.-China Development Concepts, Innovations, and Implications, China Maritime Studies Institute, Naval War College, Newport, RI, December 11-12, 2014.
- 2014 Presentation, “

2014 Strengthening America's ocean economy.

- 2010 Overview of marine algal biofuel development. DAAD Alumni Seminar “Microalgae – Sustainable Resource for Energy and Chemical Feedstock Production – Scientific Aspects and Industrial Applications”, Technische Universität Braunschweig, Germany, June 28 - July 3, 2010.
- 2010 Panelist, Energy Efficiency, Rhode Island Green Economy Network (RIGEN) Presentation, Crowne Plaza Hotel, Warwick, RI, February 9, 2010.
- 2009 IAEA/RCA Regional Training Course on application of nuclear and stable isotope tracers to determine the fate and behavior of nuclear contaminants in marine systems. Jakarta, Indonesia. May 11-23, 2009.
- 2009 Moderator, Green economy: future opportunities and barriers to success. Providence Business Expo 2009, Rhode Island Convention Center, Providence, RI, May 5, 2009.
- 2008 Green industry workforce challenge = university + corporate opportunities. Association of Energy Services Professionals (AESP) – Northeast Energy Efficiency Council (NEEC) Green Industry Workforce Development Panel. Marlborough, MA, October 16, 2008.
- 2008 Panelist, IBM Global Innovation Outlook “Deep Dive” on Water and the Oceans, San Diego, September 2008.
- 2008 URI’s energy future: cutting costs, carbon, and global change. URI Research Seminar, September 26, 2008.
- 2008 URI’s energy future: cutting costs, carbon, and global change. URI Council of Deans, September 3, 2008.
- 2008 IAEA/RCA Regional Training Course on application of radionuclide tracers to determine the fate and behavior of nuclear contaminants in marine systems. Mumbai, India, May 27- June 7, 2008.
- 2008 Educating future business leaders in the strategic management of global change





- 2000 Radioactive clocks in the sea. New England Association of Chemistry Teachers (NEACT) Conference. Roger Williams University, August 7, 2000.
- 1998 Th-230 and Pa-231: tracers of particle flux and ventilation in the Atlantic. Universite de Quebec a Montreal, Montreal, P.Q., Canada, April 22, 1998.
- 1997 Thorium scavenging and carbon fluxes in the central Arctic Ocean. Department of Oceanography, Texas A&M University, College Station, TX, April 27, 1997.
- 1996 Natural and artificial radionuclides as tracers of shelf-basin interactions in the Arctic Ocean. Harvard University, Cambridge, MA, April 1996.
- 1995 Advances in the use of Th isotopes as tracers of oceanic scavenging and particle cycling. Bedford Institute of Oceanography, Dartmouth, N.S., Canada, October 1995.
- 1994 Oceanic trace metal scavenging and colloid dynamics. Department of Earth, Atmospheric and Planetary Sciences, M.I.T., Cambridge, MA, March 1994.
- 1994 Oceanic trace metal scavenging and colloid dynamics. Chemistry Department, University of Rhode Island, March 1994.
- 1993 Oceanic particle dynamics: application of U-Th isotopes and implications for the role of colloids in the marine carbon cycle. Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA, April 1993.
- 1993 Oceanic particle dynamics: application of U-Th isotopes and implications for the role of colloids in the marine carbon cycle. Chesapeake Biological Laboratory, University of Maryland, Solomons, MD, March 1993.
- 1992 Chair, Marine Geochemistry and Radioactive Isotopes session, AGU Fall Meeting, 1992.
- 1992 Size-fractionated  $^{234}\text{Th}$  in oceanic waters: implications for the role of colloids in reactive metal scavenging. Parsons Laboratory, MIT, Cambridge, MA, November 1992.
- 1992 Oceanic particle dynamics: application of U-Th isotopes and implications for the role of colloids in the marine carbon cycle. Marine Laboratory, Duke University, Beaufort, NC, May 1992.
- 1992 Oceanic particle dynamics: application of U-Th isotopes and implications for the role of colloids in the marine carbon cycle. Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA, March 1992.
- 1992 Oceanic particle dynamics: application of U-Th isotopes and implications for the role of colloids in the marine carbon cycle. Graduate School of Oceanography, University of Rhode Island, Narragansett, RI, January 1992.





- 2008 Seasonal changes in microbial contaminant sources related to groundwater quality and physical circulation in southern Rhode Island coastal ponds. National Oceanic and Atmospheric Administration, Rhode Island Sea Grant Program, \$211,505, 2008-2010.
- 2008 Carbon export in the eastern Bering Sea water column. North Pacific Research Board, \$20,000, 2007-2008.
- 2007 Determining the present and future ocean carbon dynamics in the Chukchi Sea and Pan-Arctic Ocean: a contribution to Shelf-Basin Interactions (SBI) Phase III. National Science Foundation, Office of Polar Programs, \$122,718, 2007-2009.
- 2007 The impact of changes in sea ice extent on primary production, phytoplankton community structure, and export in the eastern Bering Sea. National Science Foundation, Office of Polar Programs, \$418,951, 2007-2011.
- 2006 Observations of the structure and dynamics of mid-shelf fronts. National Science

- 2001 Application of  $^{223}\text{Ra}$ ,  $^{224}\text{Ra}$ ,  $^{226}\text{Ra}$  and  $^{228}\text{Ra}$  to studies of groundwater input and coastal mixing process in southern Rhode Island. National Oceanic and Atmospheric Administration, Rhode Island Sea Grant Program, \$163,146, 2001-2003.
- 2000 Constraining water mass age and particle flux in the Arctic Ocean using Pa-231 and Th-230 as tracers. National Science Foundation, Office of Polar Programs, \$170,115, 200-2002.
- 1999 Application of Ra-223 as a tracer of groundwater in southern Rhode Island watersheds. United States Geologic Survey-University of Rhode Island Water Resource Center, \$23,500, 1999-2000.
- 1998  $^{230}\text{Th}$  and  $^{231}\text{Pa}$ : tracers of particle flux and ventilation in the Atlantic. National Science Foundation, Chemical Oceanography Program, \$299,832, 1998-2001.
- 1998 Seasonal study of groundwater input to Rhode Island coastal ponds using radium isotopes as tracers. National Oceanic and Atmospheric Administration, Rhode Island Sea Grant Program, \$177,728, 1998-2001.
- 1996 Investigation of submarine groundwater discharge to Rhode Island coastal waters using natural radionuclide tracers. National Oceanic and Atmospheric Administration, Rhode Island Sea Grant Program, \$79,257, 1997-1998.
- 1996 Thorium isotopes as tracers of scavenging and particle dynamics in high latitudes. Office of Naval Research Young Investigator Award, \$323,500, 1996-1999.
- 1995 Plutonium mass spectrometry analyses. Office of Naval Research \$6,000, 1995-1996.
- 1995  $^{230}\text{Th}$  and  $^{232}\text{Th}$  analysis of samples from Arctic Ocean Section-1994. National Science Foundation, Chemical Oceanography Program, \$45,483, 1995-1996.
- 1995 Radionuclide studies in the western Arctic Ocean. Office of Naval Research, \$20,000, 1995-1996.
- 1995 Nitrogen and trace metal contaminants in the Gulf of Maine: an atmosphere-water column-sediment study of contaminant transfer cycling. National Oceanic and Atmospheric Administration, Gulf of Maine Regional Marine Research Program, \$99,128, 1995-1997.
- 1995 Transport and fate of artificial radionuclide contaminants in the Ob River estuarine system. Office of Naval research, \$56,334, 1995-1997.
- 1994 Acquisition of an inductively coupled plasma mass spectrometer. National Science Foundation, \$199,056, 1994-1997.



- Dr. Henrietta N. Edmonds, 1996 - 1998 (Lead Program Director, Chemical Oceanography Program, National Science Foundation)

Graduate Student Advising (current position):

- Brendan L. Mackinson, M.S. 2014. Major Professor (Instructor, Phillips Academy, Andover, MA)
-

2009 Member, University Council for Research  
2008 Panelist, Presidents University Global U8 Consortium Workshop  
2007 - 08 Member, Faculty Search Committee, Marine Chemist  
2007 - Chair and Program Coordinator, MBA-MO Dual Degree  
2007 - 11 Member, Presidents Council on Sustainability  
2005 - 07 Member, Marine and Endeavor Replacement Committee  
2004 - 05 Member, Faculty Search Committee; ADVANCE Program  
2004 - 05 Member, Graduate School of Oceanography Promotion and Tenure Committee  
2004 Member, Faculty Search Committee; Marine Robotics  
2003 - 04 Member, Faculty Search Committee; Marine Geochemist  
2003 - Member, University Radiation Safety Committee  
2000 - 02 Member, Student Admissions and Review Committee  
2000 - Director, CHN Analytical Facility  
1998 - 00 Member, Faculty Search Committee; Stable Isotope Geochemist  
1996 - 98 Member,