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Education: Ph.D., Boston University Marine Program, Woods Hole, MA, 1982, Ecology
B.S., Rensselaer Polytechnic Institute, Troy, NY, 1975, Biology

Awards: Phi Lambda Upsilon Chemical Honor Society
Aldo Leopold Leadership Fellowship 2001
Estuaries – recognized for outstanding contributions to peer review 2005
American Association for the Advancement of Science Fellow, Class of 2013
Association for the Sciences of Limnology and Oceanography, Sustaining Fellow Class of 2019

Societies: American Association for the Advancement of Science
Council Delegate for Biological Sciences 1995-1998
American Institute of Biological Sciences
American Society of Limnology and Oceanography
American Association of Underwater Sciences
American Chemical Society
Ecological Society of America
Estuarine Research Society:
Governing Board 1988-1990; President-Elect 1997-1999, President 1999-2001,
Past-President 2001-2003
New England Estuarine Research Society
Member-at-Large 1987-1989; President 1989-1991
Oceanographic Society
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Professional Appointments:

Interim Director, Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, June 2016-present
Senior Scientist, Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, 2003-present
Graduate Faculty, University of Maine, School of Marine Science 2018-2023
Professor MBL/Brown Joint Program 2007-2018
Graduate Faculty, Graduate School of Oceanography, University of Rhode Island 2005-2018
Associate Scientist, Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, 1990-2003
Adjunct Associate Professor, Boston University, Boston, MA, 1991-Present
Assistant Scientist, Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, 1983-1989
Postdoctoral Investigator, Woods Hole Oceanographic Institution, Woods Hole, MA, 1982-1983
Coordinator, Summer Marine Ecology Course, Marine Biological Laboratory, Woods Hole, MA, Summer 1981
Research Assistant, Boston University Marine Program, Woods Hole, MA, 1977 - 1981
Teaching Fellow, Boston University Marine Program, Woods Hole, MA, 1975 - 1977
Taught Freshman Chemistry Lab, Rensselaer Polytechnic Institute, Summer 1975

Publications:

Giblin, A. E., A. Bourg, I. Valiela and J. M. Teal. 1980. Uptake and losses of heavy metals in sewage sludge by a New England salt marsh. *American Journal of Botany* 67: 1059-68.
Breteler, R. J., A. E. Giblin, J. M. Teal and I. Valiela. 1981. Trace enrichments in decomposing litter of *Spartina alterniflora*. *Aquatic Botany* 11:111-120.

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Submitted Papers:

- Haviland, A., Robert Howarth, Melanie Hayn, Anne Giblin. Characterizing spatial and temporal trends in net sediment accumulation in seagrass meadows. Submitted to *Estuaries and Coasts*
- Sulman, B., Jiase Wang, Sophie LaFond-Hudson, Teri O'Meara, Fengming Yuan, Sergi Molins, Glenn Hammond, Inke Forbrich⁷, Zoe Cardon, and Anne Giblin. Integrating tide-driven wetland soil redox and biogeochemical interactions into a land surface model. Submitted to *Journal of Advances in Modeling Earth Systems*.

- Budy, P., C. A. Pennock, S. Messenger, H. Pehrson, E. Adler, G. P. Thiede, N. R. Christman, B. C. Crump, A. E. Giblin, and G. W. Kling. Rapid recovery of an arctic lake ecosystem from a pulse disturbance caused by thermokarst failure. Submitted to *Oecologia*
- Haviland, K. A., Howarth, R.W., Giblin, A., Marino, R. Evidence of alteration of sediment iron and sulfur pools following high porewater soluble sulfide and its effect on seagrass. Submitted Ocean-Land-Atmosphere Research.

Peer-Reviewed Short Reports published with students:

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Technical Reports:

- Teal, J. M., A. E. Giblin, J. C. Goldman, D. G. Aubrey and A. G. Gaines, Jr. 1982. The coastal impact of groundwater discharge: An assessment of anthropogenic nitrogen loading in Town Cove, Orleans, MA. W.H.O.I.
- Dornblaser, M. M., J. Tucker, G. T. Banta, K. H. Foreman, M. L. O'Brien and A. E. Giblin. 1989. Obtaining undisturbed sediment cores for biogeochemical process studies using SCUBA. In: M. Long and W. Jaap (eds.), *Diving for Science. Proceedings of the Ninth Annual Scientific Diving Symposium.* American Academy of Underwater Sciences, Woods Hole, MA.
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- Giblin, A. E., C. S. Hopkinson and J. Tucker. 1993. Metabolism, nutrient cycling and denitrification in Boston Harbor and Massachusetts Bay sediments. MWRA Environmental Quality Dept. Technical Report Series No. 93-2. Massachusetts Water Resources Authority, Boston, MA. 46 pp.
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- Tucker, J. and A. E. Giblin, and C.S. Hopkinson. 1999. Metabolism, nutrient cycling and denitrification in Boston Harbor sediments in 1998. Boston: Massachusetts Water Resources Authority. Report ENQUAD 1999-08. 33p.
- Giblin, A.E., C. Wright, S.T. Roy, 1999. Bathymetry, sediment characterization, and benthic oxygen and phosphorus fluxes in six New York City reservoirs. Prepared for the NYC Depart. of Environmental Protection. 104 pp.
- Tucker, J., A. E. Giblin, C.S. Hopkinson, and D.Vasiliou. 2000. Benthic nutrient cycling in Boston Harbor and Massachusetts Bay: 1999 Annual Report. Boston: Massachusetts Water Resources Authority. Report ENQUAD 2000-11. 63p.
- Tucker, J., A. E. Giblin, C.S. Hopkinson, and D.Vasiliou. 2001. Benthic nutrient cycling in Boston Harbor and Massachusetts Bay: 2000 Annual Report. Boston: Massachusetts Water Resources Authority. Report ENQUAD 01-07. 48p.
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- Tucker J and Giblin AE. 2002. Stable isotope analyses of sediment and invertebrate samples from Boston Harbor and Massachusetts Bay. Boston: Massachusetts Water Resources Authority. Report 2002-21. 24 p.
- Tucker J, Kelsey S, Giblin AE and Charles S Hopkinson J. 2003. 2002 annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2003-08. 52p.
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- Tucker J, Kelsey S, Giblin AE and Charles S Hopkinson J. 2005. 2004 annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2005-11. 68 p.
- Tucker J and Giblin AE. 2006. Combined work/quality assurance plan for benthic nutrient flux monitoring: 2006-2007. Boston: Massachusetts Water Resources Authority. Report 2006-11. 46 p.
- Tucker J, Kelsey S, Giblin AE and Hopkinson Jr CS. 2006. 2005 annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2006-17. 69 p.
- Tucker J, Kelsey S, Giblin AE and Hopkinson Jr CS. 2007. 2006 Annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2007-07. 65 p.
- Tucker J, Kelsey S, Giblin AE and Hopkinson Jr CS. 2008. 2007 Annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2008 p.
- Tucker J, Kelsey S, Giblin AE and Hopkinson Jr CS. 2009. 2008 Annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report.

Book Reviews:

- Review of F. M. Morel, "Principles of Aquatic Chemistry" for Biogeochemistry, 1(4).
- Review of Glibert, P.M. and T. M. Kana (Eds) "Aquatic Microbial Ecology and Biogeochemistry: A Dual Perspective" for Harmful Algae (2017) vol 68.
- Review of Macfarlane, S. (2018) "Swirling Currents: Controversy, Compromise and Dynamic Coastal Change" . Gulf of Maine Institute Journal Vol II Number 3.

Media/Outreach:

- Appeared in the movie "Tunnel Visions" about the Boston sewage outfall. The show aired on public TV station WGBH several times during 1994-1996.
- NPR Science Radio Program: Earth and Sky, Dec. 2000.
- WCIA& WNAN, Cape and Islands NPR Station, interviewed for story on acid rain, Feb. 2003.
- KTNA, Alaska Public Radio, interviewed for a story on the role of benthic production in Arctic Lakes and on diving in Arctic lakes, July 2004.

Terrascope Radio – 2008. Featured in a “Science Minute” about research conducted by Ecosystems Center.
 Terrascope Youth Radio is a partnership project of the Massachusetts Institute of Technology (MIT) and the City of Cambridge Youth Programs and is sponsored by the National Science Foundation.
 New York Times, Science section September 2, 2008. Beyond carbon: scientists worry about nitrogen’s effects. By Richard Morgan <http://www.nytimes.com/2008/09/02/science/02nitr.html?ei=5070&emc=eta1>>Beyond
 Discussed some of the work at the Toolik field station in the context of changes in the global N cycle.
 NSF- Science Nation – A video about the research going on at the Plum Island Ecosystems LTER produced for the National Science Foundation https://www.nsf.gov/news/special_reports/science_nation/plumisland.jsp September 2014.
 Gulf of Maine Institute Journal, (2016) “Rising Sea Levels Demonstrate Climate Change Impacts Local Communities” <https://www.gulfofmaineinstitute.org/single-post/2017/07/06/Research-Updates>
 WCAI. Salt Marshes Help Keep us above Water, Jan 23, 2017 <http://capeandislands.org/post/salt-marshes-help-keep-us-above-water#stream/0> Interview with Heather Goldstone.
 Climate Conversations - video about Science at Plum Island Ecosystems LTER and the importance of Federal Funding. <https://vimeo.com/209801741> Posted March 2017.
 WBUR. Why this invasive plant has a shot at some redemption. Nov. 27, 2018. <http://www.wbur.org/news/2018/11/27/phragmites-salt-marsh>

Other Activities:

Cruise: R/V Oceanus #46, Sorting and Identifying Benthic Organisms; 24-30 May 1978
 Cruise: R/V Knorr #73-16, Chemical Analysis of Interstitial Water Samples; 29 June - 21 July 1979
 Cruise: R/V Ibis, Sediment and water sampling on Lake Victoria; 5-12 April 1996
 Testified on the Final EIS on the MDC Proposed Sludge Management Plan, Boston; 1979
 Testified as Expert Witness for Swansea, MA in "Swansea vs. Fall River" concerning proposed sewage discharge; November 1980
 Co-Instructor in Marine Pollution Course, "Isle of Shoals Marine Station"; August 1983
 Submitted Testimony to EPA on "Proposed Regulation of Fuel and Fuel Additives: Lead Phase Down"; Sept. 1984
 Advisor to Natural Resources Defense Council in "Norfolk Southern vs. Oberly"
 Member, Waquoit Bay National Estuarine Research Reserve Advisory Committee, 1986-1992
 Research Committee of Waquoit Bay National Estuarine Research Reserve, Chair 1986-1992
 Member, NSF Panel, Presidential Young Investigators Award, January 14-15, 1988
 Member, NSF Panel, Land Margin Ecosystems Research, May 5-6, 1988
 Member, NSF Panel, Facilities for Field Stations and Marine Labs, July 18-19, 1991
 Member, NSF Sponsored Workshop: Antarctic Dry Valleys: Terrestrial and Aquatic Ecosystems, 6-9 Oct. 1991
 Member, NAS Panel on the Coastal Ocean Program. 1993-95
 Member, NSF Panel, Environmental Geochemistry and Biogeochemistry, May 1995
 Member, Model Evaluation Group, Massachusetts Water Resources Authority, 1993-95
 Member, NSF/NOAA Panel, Coastal Studies of the Great Lakes December 4-6, 1996
 Member, NSF/NOAA Panel, Coastal Studies of the Great Lakes May 19-21, 1997
 Member of Panel to evaluate Gulfwatch, Oct. 1997
 Member, Science Board for the National Parks Service, Cape Cod National Seashore, 1997-2002
 Member, Advisory Board, Cornell Research Training Grant in Biogeochemistry, 1997-2002
 Chair, Cooperative Institute for Coastal and Estuarine Environmental Technology Advisory Board, 1999-2006
 Local Organizer: April 1988 NEERS Meeting, Marine Biological Laboratory
 Co-Local Organizer: AAUS 1989 National Meeting, Joint MBL/WHOI
 Co-Organizer: ERF 2002 workshop: Estuarine Response to Climate Change and Variability. April 7-9, 2002.
 Steering Committee: Workshop on Advanced Approaches to Quantify Denitrification, May 2004.
 Steering Committee: Denitrification Research Coordination Network, 2005-Present.
 Co-Chair, Nutrients and Contaminants Working Group, Workshop on Planning Coordinated Research on Ecosystems, Climate, and Policy in the Northeast. Sponsored by WHOI and NMFS Jan 11-13, 2005.
 Member, NSF Panel, Biocomplexity, coupled human and natural systems, 2005
 Member, NSF Panel DEB; April 2005, April 2006, April 2008, April 2009, April 2012, April 2017; FSML 2017
 Member, Board of Gulf of Maine Institute, 2009-present, Chair 2015-present
 Member, EPA Advisory Board for Nutrient Criteria for Florida Marine and Inland Waters 2010-2011
 Member, Buzzards Bay Scientific Advisory Committee 2013-present

Member, Cape Cod Commission 208 Monitoring Subcommittee Committee 2014-2018
Member, LTER Executive Board, 2014-2017; 2023-present
Member, National Estuarine Research Reserves Science Collaborative Advisory Board, 2014-2016
Member, NSF FEW Workshop: Closing the Human Phosphorus Loop." June 8-9 2015
Member, NEON Science, Technology and Education Advisory Committee (STEAC) Sept 2016-Aug. 2022
Member, DOE, Biological and Environmental Research Advisory Committee (BERAC), subcommittee on user facilities, Feb 2018-2019
Member, State Commission on Ocean Acidification – October 2019-December 2020
Member, Scientific Advisory Board, DOE Coastal Observations, Mechanisms, and Predictions Across Systems and Scales COMPASS program, August 2021-present
Member, NSF Panel 2023

Primary Advisor

Ketil Koop-Jakobsen, Ph.D. 2009 Boston University
Leanna Heffner, University of Rhode Island, Ph.D. 2013 Co-advisor (with Charles Roman)
Lindsay Brin, Brown University, Ph.D. 2013 Co-advisor (with Jeremy Rich)
William Daniels, Brown University, Ph.D. 2017 Co-advisor (with James Russell)

Graduate Committees:

Joseph Costa, Ph.D. 1987, Boston University, Marine Program
Diana Varela, M.S. 1990, Boston University Marine Program
Gary Banta, Ph.D. 1992, Boston University Marine Program
Georgia Murray, M.S., 1994, University of New Hampshire
Michael LaMontagne, Ph.D. 1994, Boston University Marine Program
John Portnoy, Ph.D. 1994, Boston University Marine Program
Dean Moosavi, Ph.D. 1998, University of New Hampshire
Cristina Zago, Ph.D. 1998, University of Venica, Italy
Jennifer Hauxwell, Ph.D. 2000, Boston University Marine Program
Joseph Walsh, Ph.D. 2000, Boston University
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William Longo, Ph.D. 2017, Brown University
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 Julia Russell, 2014, Columbia University
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Internal Committees and Activities:

Seminar Committee, Ecosystems Center, 1983-1984
 Annual Report Committee, Ecosystems Center, 1983-1984
 Chairman, Education Committee, Ecosystems Center, 1984-1986, 1989-1993
 Chairman, Facilities Committee, Ecosystems Center, 1987-1989; 1992-1997
 Chairman, Ad-Hoc Diving Safety Committee, MBL, 1985
 Member, Diving Control Board, MBL, 1986-Present; Chair - 1993-Present
 Sewage Project Oversight Committee, Ecosystems Center, 1986-1990
 Member, Nominating Committee, MBL Corporation, 1986, 1991
 Member Year-round Scientist Council, MBL, 1989
 Member, Human Resources Manager Search Committee, MBL, 1988
 Member, Ad-Hoc Grievance Committee, MBL, 1989
 MBL Representative, Coastal Research Center, WHOI 1992-2000
 Member By-Laws Review Committee, MBL, 1989-1991
 Member Fellowship Committee, MBL 1991-1997
 Member Lakian Fellowship Committee 1993-4
 Member Review for the Marine Resources Center, 2002
 Member MBL Science Council 2005-2006
 Member MBL Safety Committee 2006-present
 Member, Education Director Search Committee, MBL, 2009
 Member, Director's Council, 2016-present
 Member, Director's Search Committee, 2017