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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

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,  
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New England Estuarine Research Society  
Member-at-Large 1987-1989; President 1989-1991  
Oceanographic Society  
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Research Experience:

Senior Scientist, Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA, 2003-present  
Graduate Faculty, Graduate School of Oceanography, University of Rhode Island 2005-Present  
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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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- Yano, Y., G.R. Shaver, A.E. Giblin, E. Rastetter. Depleted <sup>15</sup>N in hydrolysable-N of arctic soils and its implication for mycorrhizal fungi-plant interaction. *Biogeochemistry*. (accepted).

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- Weston, N. B., A.E. Giblin, G. Banta, C.S. Hopkinson, and J. Tucker. (submitted) The effects of varying salinity on ammonium exchange in estuarine sediments of the Parker River, Massachusetts. *Estuaries and Coasts*.
- Bernhard, A., Z.C. Landry, A. Blevins, J.R. de la Torre, A.E. Giblin, and D.A. Stahl. (submitted). Abundance of Ammonia-Oxidizing *Archaea* and *Bacteria* along an Estuarine Salinity Gradient in Relationship to Potential Nitrification Rates. *Applied and Environmental Micro*.
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- Giblin, A. E., C. S. Hopkinson, J. Tucker, B. Nowicki and J. R. Kelly. 1994. Metabolism, nutrient cycling and denitrification in Boston Harbor and Massachusetts Bay sediments in 1993. MWRA Environmental Quality Dept. Technical Report Series 94-5 Massachusetts Water Resources Authority, Boston, MA. 61pp.
- Giblin, A. E., C. S. Hopkinson, J. Tucker, B. Nowicki and J. R. Kelly. 1995. Metabolism, nutrient cycling and denitrification in Boston Harbor and Massachusetts Bay sediments in 1994. MWRA Environmental Quality Dept. Technical Report Series 95-13 Massachusetts Water Resources Authority, Boston, MA. 56pp.
- 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.
- Tucker, J., S. Kelsey, A. E. Giblin, and C.S. Hopkinson. 2002. Benthic metabolism and nutrient cycling in Boston Harbor and Massachusetts Bay: Summary of baseline data and observations after one year of Harbor-to-Bay diversion of sewage effluent. Boston: Massachusetts Water Resources Authority. Report ENQUAD 2002-13 83p.
- 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.
- Tucker J, Kelsey S, Giblin AE and Charles S Hopkinson J. 2004. 2003 annual benthic nutrient flux monitoring report. Boston: Massachusetts Water Resources Authority. Report 2004-05. 68p.

#### Book Reviews:

Review of F. M. Morel, "Principles of Aquatic Chemistry" for Biogeochemistry, 1(4).

#### 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 – 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.

#### 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"; September 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, Environment 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 Ecosystems Studies, April 2005, April 2006, April 2008, April 2009  
Member, Board of Gulf of Maine Institute, 2009-present

#### Primary Advisor

Ketil Koop-Jakobsen, Ph.D. Candidate, Boston University

#### 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  
Pingsan Zhao, Ph.D. 2000, University of Georgia  
Thomas Mondrup, MS. 2000. University of Roskilde  
Erica Stieve, M.S. 2001, Boston University Marine Program  
Jesse Schwartz, Ph.D. 2002, Boston University  
Marci Cole, Ph.D. 2002, Boston University  
Gregg Moore, Ph.D. 2002, Boston University  
Ketil Koop-Jakobsen. MS. 2003, University of Roskilde, Denmark  
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Sarah Good, MS, 2004, Boston University  
Jennifer Bowen, Ph.D. 2004, Boston University  
Joanna York, Ph.D. 2006, Boston University  
Gretchen Gettel, Ph.D. 2006, Cornell University  
Mirta Teichberg, Ph.D. 2007, Boston University  
Robinson Fulweiler, Ph.D. 2007, University of Rhode Island  
Liza Fox, MS, 2007, Boston University  
Jennifer Culbertson, Ph.D. 2007, Boston University  
Sophia Fox, Ph.D. 2007, Boston University Marine Program  
Emily Peacock, M.S. 2007, Boston University Marine Program  
Ylva Olsen, Ph.D. Candidate, Boston University  
Lindsey Brin, M.S. Candidate, Boston University

#### External Examiner

John Amaral, 1992, Ph.D. University of Manitoba  
Grace Ann Hung, 2005, MS, McGill University

Reader or Co-Advisor for Undergraduate Senior Theses:

Philip Colarusso, 1986, Worcester Polytechnic Institute  
Fiona Boyer, 1997, Stirling University, Scotland  
Shana Rapaport, 1999, Brandeis University  
Richard Ricard, 2000, Connecticut College  
Jeremy Sinaikin, 2000, Brown University  
Adena Greenbaum, 2001, Wellesley College  
Kyle Witteinghill, 2002, Middlebury College  
Sarah Foster, 2005, Hampshire College  
Craig McGowen, 2007, Brown University

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-present  
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