

## AMY LEVENTER

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### EDUCATION

- Ph. D. Geology                    1988, Rice University, Houston, Texas  
*Biogenic Sedimentation on the Antarctic Continental Margin*  
Robert Dunbar, advisor
- M.S. Marine Science            1981, University of South Carolina, Columbia, South Carolina  
*Relationships Between Anoxia, Glacial Meltwater and Microfossil Preservation/  
Productivity in the Orca Basin (Gulf of Mexico)*  
Douglas Williams, advisor
- B.S. Aquatic Biology            1979, Brown University, Providence, Rhode Island, Magna Cum Laude  
*Distribution of Globigerinita glutinata in Modern Oceanic Sediments*  
Warren Prell, advisor

### PROFESSIONAL EXPERIENCE

- 2003 – present                    **Associate Professor**, Colgate University  
2000 - 2003                        **Assistant Professor**, Colgate University  
1997 - 2000                        **Visiting Assistant Professor**, Colgate University  
1995 - 1997                        **Instructor**, Department of Geology, University of Minnesota  
1994 - 1997                        **Research Associate**, Limnological Research Center, University of Minnesota  
1994 - 2000                        **Freelance Writer**, Audubon Society  
1993 - 1997                        **Adjunct Assistant Professor**, Department of Geology, Ohio State University  
1991 - 1994                        **Senior Research Associate**, Byrd Polar Research Center, Ohio State Univ.  
1990 - 1994                        **Instructor**, Department of Life and Earth Sciences, Otterbein College  
1990-1991                         **Lecturer**, Department of Geological Sciences, Ohio State University  
1990                                 **Research Associate**, Byrd Polar Research Center, Ohio State University  
1989                                 **Byrd Postdoctoral Fellow**, Ohio State University  
1982-1988                         **Teaching Assistant**, Rice University, Oceanography  
1981                                 **Micropaleontology Technician**, Cities Service Oil and Gas Company  
1980-1981                         **Research Assistant**, University of South Carolina Stable Isotope Laboratory  
1979-1980                         **Teaching Assistant**, University of South Carolina  
1978-1979                         **Research Aide**, Geology Department, Brown University  
Summer, 1977, 1978             **Research Aide**, NOAA, Woods Hole, Massachusetts

### STATEMENT OF TEACHING AND RESEARCH INTERESTS

Teaching goals center on development of interdisciplinary courses aimed at student understanding and appreciation of the complexity of Earth system science. Interest in maintaining a wide diversity of teaching experience, including education of lower and upper level geology students, non-science majors, and the general public. Key emphasis on skills for critical assessment of scientific data.

My research bridges the fields of paleoclimatology, marine geology, and biological oceanography. Projects focus on annual- to millennial-scale change in Holocene climate in the Southern Ocean and use marine diatom and geochemical data. Ground-truthing of sedimentary data is accomplished through modern process-oriented studies of high latitude marine ecosystems.

## TEACHING EXPERIENCE

<u>Year</u>	<u>Institution / Enrollment</u>	<u>Course Title</u>
Fall 2006	Colgate University/ 11	Earth and Environmental Processes
Fall 2006	Colgate University/ 83	Oceanography
Spring 2006	Colgate University/ 82	Oceanography
Fall 2005	Colgate University/ 8	Earth and Environmental Processes
Fall 2005	Colgate University/ 18	Science and Exploration
Spring 2005	Colgate University / 86	Oceanography
Fall 2004	Colgate University / 9	Senior Seminar – Scientific Research Methods
Fall 2004	Colgate University/ 11	Earth and Environmental Processes
Spring 2004	Colgate University/ 36	Climate Change and Human History
Fall 2003	Colgate University / 82	Oceanography
Fall 2003	Colgate University/ 19	Earth and Environmental Processes
Spring 2003	Colgate University / 71	Oceanography
Spring 2003	Colgate University/ 22	Climate Change and Human History
Fall 2002	Colgate University / 10	Marine Geology
Fall 2002	Colgate University/ 13	Earth and Environmental Processes
Spring 2002	Colgate University / 79	Oceanography
Fall 2001	Colgate University / 13	Earth and Env. Processes: an Antarctic Perspective
Fall 2001	Colgate University / 33	Climate Change and Human History
Fall 2000	Colgate University / 41	Climate Change and Human History
Fall 2000	Colgate University / 85	Oceanography
Spring 2000	Colgate University / 115	Oceanography
Fall 1999	Colgate University / 91	Oceanography
Fall 1999	Colgate University / 21	Environmental Geology
Spring 1999	Colgate University / 8	Marine Geology
Spring 1999	Colgate University / 115	Oceanography
Fall 1998	Colgate University / 54	Climate Change and Human History
Spring 1998	Colgate University / 13	Marine Geology
Fall 1997	Colgate University / 75	Oceanography
Fall 1997	Colgate University / 21	Earth from Space
Spring 1997	Univ. Minnesota / 20	Earth System History: Geosphere Biosphere Interactions
Winter 1997	Univ. Minnesota / 100	Oceanography
Fall 1996	Blue Ice / Internet Class	Focus on Antarctica
Spring 1996	Univ. Minnesota / 20	Earth System History: Geosphere Biosphere Interactions
Winter 1996	Univ. Minnesota/ 70	Oceanography
Spring 1994	Otterbein College / 17	Oceanography
Winter 1994	Otterbein College / 15	Physical Geology
Fall 1993	Otterbein College / 17	Earth Science and Humankind
Spring 1993	Geol. Soc. America / 25	Polar Marine Diatoms (Short course)
Spring 1993	Otterbein College / 15	Geology of the United States
Winter 1993	Otterbein College / 30	Earth Science Education ( <i>K - 6 Teachers</i> )
Fall 1992	Otterbein College / 125	Earth Science and Humankind
Summer 1992	Ohio State Univ. / 30	Leadership in Earth System Education ( <i>K - 6 Teachers</i> )
Spring 1992	Otterbein College / 22	Oceanography
Winter 1992	Otterbein College / 18	Physical Geology
Winter 1992	Otterbein College / 45	Earth Science and Humankind
Fall 1991	Otterbein College / 145	Earth Science and Humankind
Summer 1991	Otterbein College / 35	The Everyday World as a Laboratory ( <i>4 - 8 Teachers</i> )
Spring 1991	Ohio State Univ. / 270	Introductory Geology
Spring 1991	Otterbein College / 42	Earth Science and Humankind

Winter 1991	Otterbein College / 145	Earth Science and Humankind
Fall 1990	Otterbein College / 20	Oceanography
Spring 1990	Ohio State Univ. / 25	Oceanography
Spring 1990	Ohio State Univ. / 6	Antarctic Marine Ecology and Paleoecology

### COLGATE UNDERGRADUATE STUDENT PROJECTS

Molly Patterson ('08) - Mid Holocene Warmth in the Antarctic Peninsula: diatom evidence from the Vega Drift

Maureen Lynch ('06) – Modern and Holocene diatom assemblages from the Larsen B Ice Shelf

Nicky West ('06) – Holocene diatom record of the Larsen B Ice Shelf

Robert Filbin ('05) – Phytoplankton blooms and their association with ice shelf frontal zones

Michelle Cooper ('06) – The use of *Thalassiosira antarctica* as a proxy for paleotemperature in the Antarctic Peninsula

Christina Viviano ('06) - Laminated sediments from Iceberg Alley, East Antarctica

James Maritz ('05) – The Holocene history of the Larsen Ice Shelf: evidence from diatom assemblages

Aron Buffen ('05) – Statistical evaluation of diatom assemblages from the western Weddell Sea

Aron Buffen ('05) – Mid Holocene warming record from the Vega Drift, Antarctic Peninsula

Emily Constantine ('04) – The literature of polar exploration and science

Emily Constantine ('04) – Recent surface water warming in the Southern Ocean

John Chaklader ('03) – The use of *Thalassiosira antarctica* as a proxy for paleotemperature in the Southern Ocean

Kelsi Olson (MS'03) – 12<sup>th</sup> grade curriculum for advanced earth science literature

Kelsi Olson ('02) – Teaching Oceanography: Hurricanes

Caroline Olson ('02) – *Thalassiothrix*: an indicator of Holocene environmental change along the East Antarctic Margin

Meredith Metcalf ('02) – Holocene changes in terrigenous provenance and biological export production from Edward VIII Gulf, East Antarctic Margin

Anna Rubin ('02) – Surface sediment diatom assemblages from the northwestern Weddell Sea

Mary Patch ('02) – Laminations in Antarctic marine sediments: environmental implications

Natalie McLenaghan ('02) – Diatom studies from Edward VIII Gulf, East Antarctic Margin: a paleoecological record

Robert Vandersluis ('02) - Geology education: a program for middle school students in Canada

Athan Barkoukis ('02) – Laminations from the Palmer Deep, Antarctica and Holocene diatom assemblages from the Larsen A region of the Weddell Sea, Antarctica

Jane Murray ('02) – Downcore distribution of *Eucampia antarctica* in the Palmer Deep, Antarctica: a record of changing oceanographic conditions during the Holocene

Emily Hirshorn ('01) – Recent climate change evaluated through examination of diatom assemblages from the Palmer Deep, Antarctica

Eric Williams ('01) - Climate since the Little Ice Age: the story from Antarctic marine sediments

Carolyn Goodridge ('00) – Holocene paleoclimates of the Antarctic Peninsula: the record from the Gerlache Drift

Kate Clark ('99) – Recent global warming in Antarctica

Beth McAndrews ('99) – Annual cycles in Palmer Deep sediments, Antarctica

Becca Newhall ('99) – The use of tree ring records to reconstruct climate in central New York

Allison Ridder ('99) – Epi-fluorescence evaluation of phytoplankton in the Ross Sea, Antarctica

Capri O'Hara ('98) – Laminated sediments from the George V Coast, Antarctica

#### **GRADUATE AND POST-GRADUATE STUDENTS**

Cathy Stickley, Post-doctoral student, Cardiff University, Wales, 2003-2005 (co-advisor)  
 Eleanor Maddison, Ph.D., Cardiff University, Wales, anticipated Spring 2006 (co-advisor)  
 Melany McFadden, MS, Syracuse University, Spring 2003 (committee member)  
 Claire Allen, Ph.D., Cardiff University, Wales, Spring 2003 (co-advisor)  
 Fiona Taylor, Post-doctoral student, University of Tasmania, 2000-2002 (primary advisor)  
 Wendy Cunningham, MS, University of Colorado, 1997 (primary advisor)  
 Andrew Shuckstes, MS, Ohio State University, 1994 (co-advisor)

#### **COLGATE UNIVERSITY SERVICE**

Fall 2003 – Spring 2005	Science Colloquium, co-organizer
Spring '03, Fall 2004-'6	University Student Disciplinary Board
Spring 2002	Search Committee, Director of Career Services
Fall 2001 – present	Admissions Office Departmental Liaison
Fall 2001 – present	Graduate Fellowship Committee
August 2001	First Year Orientation Program
Spring 2001	Antarctica Study Group
Spring 2000 and 2002	Science Colloquium Presentations
Fall 1999, 2002	Science Colloquium Panel Discussions
Fall 1998	SEED Project
Summer 1998, 2001, 2002	Geology Department Off Campus Study
Fall 1997, 1998, 2001	First Year Seminar
Fall 1997 – present	Supervised 27 Independent Study Projects
Fall 1997 – present	Advised >50 undergraduates

## RESEARCH SUPPORT

Collaborative Research in IPY: Abrupt environmental change in the Larsen Ice Shelf System, a multidisciplinary approach – Marine and Quaternary geosciences, with E. Domack, S. Ishman, S. Brachfeld and J. Wellner, (10/07-9/12), NSF/Polar Programs

Polar Diatom Workshop Travel Request, (4/05-3/06), NSF/Polar Programs

Paleohistory of the Larsen Ice Shelf System: Phase II, with E. Domack, S. Brachfeld, B. Gilbert, S. Ishman, and L. Padman, (4/04-3/07), NSF/Polar Programs

RUI: MRI: Acquisition of Fluorescence microscopy instrumentation for research and education in biology, geology, and neuroscience, with K. Belanger and A. Tierney, (7/02-6/05), NSF

Workshop Proposal: Antarctic Research Vessel - Anticipated needs for Marine Geology and Geophysics, (9/01-12/02), NSF/Polar Programs

Quaternary glacial history and paleoenvironments of the East Antarctic margin, with C. McClennen, P. Manley, S. Brachfeld, and R. Dunbar, (7/00-12/02), NSF/Polar Programs

Holocene paleoenvironmental change along the Antarctic Peninsula: a test of the solar/bi-polar signal with E. Domack, R. Dunbar, S. Ishman, P. Manley, R. Gilbert, and S. Brachfeld, (7/97-6/99), NSF/Polar Programs

Late Quaternary history (0->30ka) of the western and east-central Ross Sea, Antarctica: a contribution to the West Antarctic Ice Sheet Initiative, with J. Andrews and A. Jennings, (1/97-12/99), NSF/Polar Programs

Geological and geophysical investigations of the East Antarctic margin: a workshop discussion, with Anne Grunow, (1/97 - 12/97), NSF/Polar Programs

Holocene paleoproductivity signal of the Antarctic coastal ocean: linkages among the sun, atmosphere, ocean, sea ice and biota, with E. Domack, R. Murray, T. Janacek, S. Ishman, J. Kennett, and S. Brachfeld, Ocean Drilling Program, proposed site drilled in 1998

Research on ocean-atmosphere variability and ecosystem response in the Ross Sea, with K. Arrigo, J. Barry, D. Bromwich, R. Dunbar, J. Grebmeier, M. Lizotte, and M. van Woert, (9/95 - 8/98), NSF/Polar Programs

Holocene paleoclimates of the Antarctic Peninsula, with R. Scherer, (2/93 - 10/96), NOAA/Paleoclimatology

Quantitative diatom analysis from Antarctic Peninsula surface sediments and a test of paleoclimatic utility, (2/93 - 8/96), NSF/Polar Programs

Late Quaternary paleoclimatic history of southern Chile: Evidence from the marine record, with S. Ishman and L. Krissek, (5/92 - 5/96), NSF/Polar Programs

Biogeochemistry of carbon and silicon on the Antarctic shelf: Particle flux and taxonomic studies, with R. Dunbar, (7/93 - 6/94), NSF/Polar Programs

Sinking and suspended particulate matter on the Antarctic continental margin, with R. Dunbar, (7/89 - 12/93), NSF/Polar Programs

Late Holocene climatic history recorded in laminated sediments from the George V Coast, Antarctica, (4/90 - 3/92), NSF/Polar Programs

## FIELD EXPERIENCE

2008	R/V NB Palmer, Ross Sea - Physical Oceanography
2007	R/V NB Palmer, Amundsen Sea - Physical Oceanography
2006	R/V NB Palmer, Weddell Sea – Larsen Ice Shelf History, Phase II
2005	R/V LM Gould, Weddell Sea – Larsen Ice Shelf History, Phase II
2004	R/V LM Gould, Weddell Sea – Larsen Ice Shelf History, Phase II
2003	R/V LM Gould, Antarctic Peninsula - High resolution Holocene paleoclimate
2001	R/V NB Palmer, East Antarctic Margin – High resolution Holocene paleoclimate, <i>Chief Scientist</i>
2000	R/V NB Palmer, Weddell Sea – Larsen Ice Shelf History, Phase I
1999	R/V NB Palmer, Antarctic Peninsula - High resolution Holocene paleoclimate
1998	R/V LM Gould, Antarctic Peninsula - High resolution Holocene paleoclimate
1996	R/V NB Palmer, Ross Sea - Ocean-atmosphere variability / ecosystem response
1993	R/V Polar Duke, Southern Chile - Late Quaternary paleoclimates
1990	McMurdo Sound, Antarctica - Modern sedimentary processes
1990	R/V Vereshchagin, Lake Baikal, Soviet Union - Quaternary paleoclimates
1990	R/V Polar Duke, Ross Sea, Antarctica - Cycling of silica and carbon
1989	McMurdo Sound, Antarctica - Holocene sedimentation and climatic record
1988	McMurdo Sound, Antarctica - Holocene sedimentation and climatic record
1987	USCGC Glacier, McMurdo Sound - Modern sedimentary processes
1986-1987	McMurdo Sound, Antarctica - Modern sedimentary processes
1984	McMurdo Sound, Antarctica - Modern sedimentary processes
1983	F/S Polarstern, Antarctic Peninsula - Marine geologic research
1980	R/V Gyre, Gulf of Mexico - Marine geologic and chemical research

## PROFESSIONAL RECOGNITIONS, CONTRIBUTIONS, and EDUCATION

- 2008 Invited Speaker, Centre for Global Change Science, University of Toronto; Dept. Geosciences, Hobart and William Smith Colleges
- 2007 Invited Speaker, Lamont Doherty Earth Observatory
- 2007 Antarctic Integrative Systems Science, Meeting participant
- 2003 – 2004 Antarctic Research Vessel Oversight Committee, Polar Research Vessel Committee
- 2003 *AGU Antarctic Research Series, Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective (Co-editor)*
- 2002 *Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective*, Clinton, NY (*Co-convener*)
- 2002 Antarctic Marine Geology and Geophysics Vessel Planning Workshop, Washington, D.C. (*Convener*)
- 2000 Polar Research Workshop for science teachers, Chenango Forks High School
- 1999 Ocean Drilling Program Leg 178 Post-cruise meeting, invited participant, Iceland
- 1999, 2002 Syracuse University Geology Department Lecture Series
- 1999 Antarctic Radiocarbon Workshop, invited participant, Woods Hole, MA
- 1998 Distinguished Visiting Scholar, Queen's University, Kingston Canada
- 1997 Paleohistory workshop, Climate Change and Antarctic Marine Ecological response, invited participant, Santa Barbara, CA
- 1997 Gordon Research Conference, Sea Ice Ecology, invited participant, Ventura, CA
- 1996 Workshop on Time-series Analysis, University of Minnesota
- 1995 High-resolution, Site-specific Climate Modeling Workshop, University of Minnesota
- 1995 - 1997 National Science Foundation, Office of Polar Programs Advisory Committee
- 1994 - 1998 Antarctic Research Vessel Oversight Committee
- 1994 Workshop on Visualization in the Geosciences, University of Minnesota
- 1994 NOAA Paleoclimatology Workshop, San Francisco, CA
- 1993, 1994 National Science Foundation, Office of Polar Programs Review Panel, Arctic and Antarctic Glaciology
- 1993 23rd Arctic Workshop, Columbus, OH (*Meeting Co-organizer*)
- 1993 Geological Society of America, Short course Antarctic Glacial Marine and Biogenic Sedimentation (*Instructor*)
- 1992 4th Int. Polar Diatom Colloquium, Stockholm, Sweden (*Scientific Organizer*)
- 1991 Long Term Ecological Research (LTER) Planning Workshop for Dry Valleys, Antarctica site, Bozeman, MT
- 1990 Joint Global Oceans Flux Study (JGOFS) Southern Ocean Planning Meeting, Palisades, NY
- 1990 3rd International Polar Diatom Colloquium, Ottawa, Canada
- 1989 Arctic Marine Geology and Geophysics Workshop, Woods Hole, MA
- 1989 Antarctic Environmental Monitoring Workshop, Washington, D.C.
- 1988 2nd International Polar Diatom Colloquium, Bremerhaven, Germany
- 1988 - present Proposal Reviews:  
National Science Foundation  
*Polar Earth Sciences, Glaciology, Biology, and Ocean Sciences, Biological Oceanography, Marine Geology and Geophysics*  
National Oceanic and Atmospheric Administration  
*Paleoclimatology*  
British Natural Environment Research Council
- 1988 - present Manuscript Reviews:  
*Nature, Paleoceanography, Marine Micropaleontology, Deep-Sea Research, Geochimica et Cosmochimica Acta, Geo-Marine Letters, Antarctic Marine Geology (book),*

*Palaeogeography, Palaeoclimatology, Palaeoecology, Journal of Geophysical Research, Quaternary Research, The Holocene, GSA Today, Proceedings of the VII International Symposium on Antarctic Earth Sciences, Diatom Research, Proc. of the National Institute of Polar Research of Japan, AGU Antarctic Research Series, Antarctic Science, Earth and Planetary Science Letters, Coastal and Marine Science*

## HONORS AND AWARDS

1999, 2002	Nominated for Teacher of the Year, Phi Eta Sigma, Colgate University
1989	Byrd Postdoctoral Fellowship
1987	Houston Geological Society Outstanding Student Award
1986-1987	American Association of University Women Fellowship
1986	SEPM Travel Grant
1983-1986	Bennett Fellowship, Rice University
1985, 1980	Sigma Xi grant-in-aid of research
1982	AS&R Fellowship, Rice University
1981	William Powell Geological Award, Sigma Xi Public Speaking Award
1979	Sigma Xi membership

## PUBLICATIONS

Underlined indicates Colgate University undergraduate

Bentley, M.J., Hodgson, D.A., Smith, J.A., O Cofaigh, C., Domack, E.W., Larter, R.D., Roberts, S.J., Brachfeld, S., Leventer, A., Hjort, C., Hillenbrand, C.-D., and Evans, J., 2008, Mechanisms of Holocene palaeoenvironmental change in the Antarctic Peninsula region, *The Holocene*, in revision.

Pike, J., Allen, C.S., Leventer, A., Stickley, C.E., and Pudsey, C.J., 2008, Comparison of contemporary and fossil diatom assemblages from the western Antarctic Peninsula, *Marine Micropaleontology*, in press.

Costa, E., Dunbar, R.B., Kryc, K.A., Mucciarone, D.A., Brachfeld, S., Roark, B., Manley, P.L., Murray, R.W., and Leventer, A., 2007, Solar forcing and El Niño-Southern Oscillation (ENSO) influences on productivity cycles interpreted from a late-Holocene high-resolution marine sediment record, Adélie Drift, East Antarctic Margin, *U.S Geological Survey and The National Academies*; USGS OF-2007-1047, Short Research Paper 036; doi:10.3133/of2007-1047.srp036.

Szymcek, P., Ishman, S.E., Domack, E.W., and Leventer, A., 2007, Holocene oceanographic and climatic variability of the Vega Drift revealed through foraminiferal interpretation, *U.S. Geological Survey at The National Academies*; USGS OFR-2007--1047, Short Research Paper 010; doi:10.3133/of2007-1047.srp010.

Buffen, A., Leventer, A., Rubin, A., and Hutchins, T., 2007, Diatom assemblages in surface sediments of the northwestern Weddell Sea, Antarctic Peninsula, *Marine Micropaleontology*, 62, 7-30.

Leventer, A., Domack, E., Dunbar, R., Pike, J., Stickley, C., Maddison, E., Brachfeld, S., Manley, P., and McClennen, C., 2006, East Antarctic Margin marine sediment record of deglaciation, *GSA Today*, 16, 12, doi: 10.1130/GSAT01612A.1.

Stickley, C.E., Pike, J., and Leventer, A., 2006, Productivity events of the marine diatom *Thalassiosira tumida* (Janisch) Hasle recorded in deglacial varves from the East Antarctic Margin, *Marine Micropaleontology*, 59, 184-196.



- Maddison, E.J., Pike, J., Leventer, A., Dunbar, R., Brachfeld, S., Domack, E.W., Manley, P., and McClennen, C., 2006, Post-glacial seasonal diatom record of the Mertz Glacier Polynya, East Antarctica, *Marine Micropaleontology*, 60, 66-88.
- McMullen, K., Domack, E., Leventer, A., Olson, C., Dunbar, R., and Brachfeld, S., 2006, Glacial morphology and sediment formation in the Mertz Trough, East Antarctica, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 231, 169-180.
- Domack, E., Ishman, S., Leventer, A., Sylva, S., Willmott, V., and Huber, H., 2005, A Chemotrophic Ecosystem Found Beneath Antarctic Ice Shelf, *EOS, Transactions of the American Geophysical Union*, 86, 29, 269, 271-272.
- Domack, E., Duran, D., Leventer, A., Ishman, S., Doane, S., McCallum, S., Amblas, D., Ring, J., Gilbert, R., and Prentice, M., 2005, Stability of the Larsen B ice shelf on the Antarctic Peninsula during the Holocene epoch, *Nature*, 436, 681-685.
- Stickley, C.E., Pike, J., Leventer, A., Dunbar, R., Domack, E.W., Brachfeld, S., Manley, P., and McClennen, C., 2005. Deglacial ocean and climate seasonality in laminated diatom sediments, Mac.Robertson Shelf, Antarctica, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 227, 290-310.
- Maddison, E., Pike, J., Leventer, A., and Domack, E. 2005. Diatom rich sediments from Palmer Deep, Antarctica: Seasonal and sub-seasonal record through the last deglaciation, *Journal of Quaternary Sciences*, 20, 5, 435-446.
- Allen, C.S., Pike, J., Pudsey, C.J., and Leventer, A. 2005. Fluctuations in Southern Ocean conditions during the Late Quaternary; Falkland Trough, Southwest Atlantic, *Paleoceanography*, 20, 2, PA201210.1029/2004PA001055.
- DiTullio, G.R., Geesey, M.E., Leventer, A.R. and Lizotte, M.P. 2003. Algal Pigment Ratios in the Ross Sea: Implications for CHEMTAX Analysis of Southern Ocean Data, In: *AGU Antarctic Research Series, Special Volume on Biogeochemistry of the Ross Sea*, 78, 35-52.
- Dunbar, R.B., Arrigo, K.R., Lutz, M., DiTullio, G.R., Leventer, A., Lizotte, M.P., Van Woert, M.P., and Robinson, D.H. 2003. Non-Redfield production and export of marine organic matter: A recurrent part of the annual cycle in the Ross Sea, Antarctica, In: *AGU Antarctic Research Series, Special Volume on Biogeochemistry of the Ross Sea*, 78, 179-196.
- Domack, E., Leventer, A., Burnett, A., Bindschadler, R., Convey, P., and Kirby, M. (eds.). 2003. *AGU Antarctic Research Series, Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective*, 272 pp.
- Domack, E.W., Burnett, A., and Leventer, A. 2003. Environmental setting of the Antarctic Peninsula, In: *AGU Antarctic Research Series, Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective*, 79, 1-13.
- Domack, E.W., Leventer, A., Root, S., Ring, J., Williams, E., Carlson, D., Hirshorn, E., Wright, W. and Burr, G. 2003. Marine sediment record of natural environmental variability and recent warming in the Antarctic Peninsula, In: *AGU Antarctic Research Series, Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective*, 79, 205-224.

- Brachfeld, S., Domack, E., Kissel, C., Laj, C., Leventer, A., Ishman, S., Gilbert, R., Camerlenghi, A., and Eglinton, L. 2003. Holocene history of the Larsen-A Ice Shelf constrained by geomagnetic paleointensity dating. *Geology*, 31, 9, 749–752.
- Handwerker, D.A., Cooper, A.K., O'Brien, P.E., Williams, T., Barr, S.R., Dunbar, R.B., Leventer, A., and Jarrard, R.D. 2003. Synthetic seismograms linking ODP Sites to seismic profiles, continental rise and shelf of Prydz Bay, Antarctica, *In* Cooper, A.K., O'Brien, P.E., and Richter, C. (Eds.), *Proc. ODP, Sci. Results*, 188 [Online]. Available from World Wide Web: <[http://www-odp.tamu.edu/publications/188\\_SR/010/010.htm](http://www-odp.tamu.edu/publications/188_SR/010/010.htm)>. [Cited 2004-01-20]
- Taylor, F. and Leventer, A. 2003. Late Quaternary depositional environment in Prydz Bay, Antarctica: Preliminary interpretations from marine diatoms, *Antarctic Science*, 15, 4, 512-521.
- Arrigo, K.R., Robinson, D.H., Dunbar, R.B., Leventer, A.R., Barry, J., and Lizotte, M.P. 2003. Physical control of chlorophyll a, POC, and PON distributions in the pack ice of the Ross Sea, Antarctica. *Journal of Geophysical Research*, 108, doi:10.1029/2001JC001138.
- Leventer, A. 2003. Particulate flux from sea ice in polar waters, *In: Sea Ice: An Introduction to its Physics, Biology, Chemistry, and Geology*, Thomas, D.N. and Dieckmann, G.S. (eds.), Blackwell Science, pp. 303-332.
- Armand, L. and Leventer, A. 2003. Palaeo sea ice distribution; its reconstruction and significance, *In: Sea Ice: An Introduction to its Physics, Biology, Chemistry, and Geology*, Thomas, D.N. and Dieckmann, G.S. (eds.), Blackwell Science, pp. 333-372.
- Leventer, A., Domack, E., Barkoukis, A., McAndrews, B., and Murray, J. 2002. Laminations from the Palmer Deep: a diatom-based interpretation, *Paleoceanography*, 17(3), 1-15.
- Domack, E., Leventer, A., Gilbert, R., Brachfeld, S., Ishman, S., Camerlenghi, A., Carlson, D., and Barkoukis, A. 2001. Cruise reveals history of Holocene Larsen Ice Shelf, *EOS, Transactions of the American Geophysical Union*, 82, 2, 13, 16-17.
- Camerlenghi, A., Rebesco, M., Domack, E., Gilbert, R., Leventer, A., Brachfeld, S., and Ishman, S. 2001. Glacial geomorphology and post-glacial drift sedimentation in northern Prince Gustave Channel (Western Weddell Sea, Antarctica), *Marine Geophysical Researches*, 22, 417-443.
- Domack, E., Leventer, A., Dunbar, R., Taylor, F., Brachfeld, S., and ODP Leg 178 Scientific Party. 2001. Chronology of the Palmer Deep site, Antarctic Peninsula: a Holocene palaeoenvironmental reference for the circum-Antarctic, *The Holocene*, 11, 1, 1-9.
- DiTullio, G.R., Grebmeier, J., Lizotte, M., Arrigo, K.R., Robinson, D.H., Leventer, A., Barry, J., VanWoert, M., and Dunbar, R.B. 2000. Rapid export of *Phaeocystis antarctica* blooms to deep water and sediments of the Ross Sea, Antarctica, *Nature*, 404, 595-598.
- Andrews, J.T., Domack, E.W., Cunningham, W.L., Leventer, A., Licht, K.J., Jull, T., DeMaster, D.J. and Jennings, A.E. 1999. Radiocarbon dating of surface marine sediments, Ross Sea, Antarctica: problems and solutions (?), *Quaternary Research*, 52, 206-216.
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