

Eugene Walter Domack

Professor of Geological Oceanography, College of Marine Science, University of South Florida
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Degrees:

BS, 1978 - University of Wisconsin-Madison (Geology & Geophysics)
MA, 1980 - Rice University (Geology)
PhD, 1982 - Rice University (Geology)

Professional Employment:

2014- College of Marine Science, University of South Florida, St. Petersburg FL
1985-2013 - Department of Geosciences, Hamilton College, Clinton, NY
1986-1990 - Colgate University, Hamilton, NY, Lecturer, Writing Program (half time)
1984-1985 - Dept. Geology, University of Wisconsin-Eau Claire, Visiting Associate Professor
1982-1984 - UNOCAL, Exploration Geologist, Gulf of Mexico Region, Frontier District,
 Houston, Texas

5 Relevant Publications

Glasser, N. F., B.J. Davies, J.L. Carrivick, A. Rodés, M.J. Hambrey, J.L. Smellie, **E. Domack**,
2014, Ice-stream initiation, duration and thinning on James Ross Island, northern Antarctic
Peninsula, *Quaternary Science Reviews*, v. 86, p. 78-88.
Rosenheim, B., E., Santoro, J. A., Gunter, M., **Domack, E. W.**, 2013, Improving Antarctic sediment
¹⁴C dating using ramped pyrolysis: an example from the Hugo Island Trough, *Radiocarbon*, v. 55,
p. 1-12.
Shevenell, A.E., A.E. Ingalls, E.W. **Domack**, and C. Kelly, 2011, Holocene Southern Ocean
surface temperature variability west of the Antarctic Peninsula, *Nature*, **470**, 250-254.
Mackintosh, A., Golledge, N., **Domack, E.**, Dunbar, R., Leventer, A., White, D., Pollard, D., DeConto, R.,
Fink, D., Zwart, D., Gore, D., and Lavoie, C., 2011, Retreat of the East Antarctic ice sheet during the
last glacial termination, *Nature Geoscience*, 4, 195-202.
Domack, E.W., 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.

5 Other Significant Publications

McMullen, K., **Domack, E.W.**, Leventer, A., Olsen, C., Dunbar, R. and Brachfeld, S., 2005. Glacial
geomorphology and sediment formation in the Mertz Trough, East Antarctica, *Palaeogeogr.,
Palaeoclimatol., Palaeoecol.*, 231, 169-180.
Rosenheim, B.E., Day, M.B., **Domack, E.W.**, Schrum, H. Benthien, A. and Hayes, J.M., 2008.
Antarctic sediment chronology by programmed-temperature pyrolysis: methodology and data
treatment. *Geochem., Geophys., Geosyst.*, 9, 10.1029/2007GC001816
Domack, E.W. Amblas, D., Gilbert, R., Brachfeld, S., Camerlenghi, A., Rebesco, M., Canals, M. and
Urgeles, R., 2005. Subglacial morphology and glacial evolution of the Palmer deep outlet system,
Antarctic Peninsula, *Geomorphology*, 75, 125-142.
Domack, E., Leventer, A., Burnett, A., Bindschadler, R., Convey, P. and Kirby, M. (editors), 2003.
*Antarctic Peninsula Climate Variability: Historical and Paleoenvironmental Perspectives, Antarct. Res.
Ser.*, 79, AGU, Washington D.C., 260 pp.
Domack, E.W., Leventer, A., Root, S., Ring, J., Williams, E., Carlson, D., Hirshorn, E., Wright, W., Gilbert,
R. and Burr, G., 2003. Marine sedimentary record of natural environmental variability and recent warming
in the Antarctic Peninsula, In: Domack, E., et al. (editors), *Antarctic Peninsula Climate Variability:
Historical and Paleoenvironmental Perspectives, Antarct. Res. Ser.*, 79, 205-224.

Honors and Awards

2004 Guggenheim Fellow
2011 Fellow of the American Geophysical Union
2012 Fellow of the American Association for Advancement of Science

Synergistic Activities

- Polar Research Vessel Committee Member, 2011
- LARISSA short course, July 2010
- Session Co-Chair, GSA Fall Meeting, 2008
- Invited speaker, Antarctic Peninsula Climate Variability, 3rd International Antarctic Peninsula Workshop, Univ. Colorado
- Invited speaker, Snowball Earth Conference, Monte Verito Switzerland, sponsored by ETH-Zurich and Swiss National Science Foundation
- Organized NSF funded workshop *Geomicro morphology of Glacial Sediments*, June 2006
- Session Co-Chair, AGU Ocean Sciences Meeting, 2006
- Session Co-Chair, AGU Fall Meeting, 2005
- Invited speaker, Lamont Doherty Earth Observatory, May 2005
- Invited speaker, GEOSUR: Geology of the Southern Andes, Patagonia and Antarctic Peninsula, Buenos Aires, Argentina, November 2004
- Invited participant, International Antarctic Institute organizational meeting, University of Tasmania, Australia, November 2004
- Invited keynote speaker 2nd Antarctic Peninsula Workshop, Scott Polar Res. Center, Sept. 2004
- Invited speaker, SCAR International Science Meeting, Bremen Germany, July 2004
- Short course instructor, Antarctic Marine Geology and Geophysics, Univ. Barcelona, June 2004
- Invited Participant, JOIDES Educational Workshop, URI, May, 2003
- Lead organizer of NSF funded international workshop *Antarctic Peninsula Climate Variability: A Historical and Paleoenvironmental Perspective*, <http://academics.hamilton.edu/workshops/antarctica/index.htm>, April 2002
- NSF IGERT Panel Review committee, 2008
- Distinguished Lecturer, USSAC Ocean Drilling Program, 2000-2001
- Invited speaker, Annual Meeting for the Association for the Advancement of Science, 1999
- Co-organizer NSF sponsored int. workshop *Antarctic radiocarbon dating methods*, WHOI, 1998
- Member, Antarctic Research Vessel Oversight Committee 1999-2001
- Invited speaker, Korean Institute of Oceanography, Ansan Korea, 1997
- Invited speaker, American Meteorological Society, Workshop on Polar Processes, Cancun Mexico, 1997
- Invited speaker, Univ. Tasmania Antarctic and Southern Ocean CRC, Tasmania, 1996
- Member, Antarctic Working Group on Geology and Geophysics
- Editorial Board, *Geology*, 1990-1993, 2004-2007

Collaborators and Other Affiliations

(a) Stefanie Brachfeld, Montclair State Univ.; Xavier Crosta, Univ. Bordeaux; Marc DeBatist, Ghent; Rob DeConto, U. Mass; Eugene Domack, Hamilton College; Rob Dunbar, Stanford Univ.; David Fink, ANSTO; Nick Golledge, Victoria Univ.; Damian Gore, Macquarie Univ.; Paul Hoffman, Harvard University; Scott Ishman, Southern Illinois Univ.; Caroline LaVoie, Hamilton College; Andrew Mackintosh, Victoria Univ.; Ellen Mosley-Thompson, BPRC; Lieven Naudts, Ghent; Erin Pettit, Univ. Alaska; Dave Pollard, Penn. State; Michele Rebesco, OGS – Trieste; Brad Rosenheim, Tulane; Ted Scambos, NSIDC; Amelia Shevenell, UC London; Craig Smith, U. Hawaii; Walker Smith, VIMS; Martin Truffer, Univ. Alaska; Maria Vernet, SIO; Julia Wellner, U. Houston; Duanne White, Macquarie Univ.; Veronica Willmott, AWI; Holl Yoon, KOPRI; Fabrizio Zgur, OGS – Trieste; Dan Zwartz, Victoria Univ.

(b) MS and PhD Advisor, John Anderson, Rice University

(c) Review/committee panel for graduate degrees for Duane White, Macquarie University, 2006; Andrew Jones, University of Queensland, 2003; Dennis Franklin, University of Tasmania, 1997; Rob Wellner, Syracuse University, 1989; Scott Ishman, Ohio State University, 1986
Supervision of 126 undergraduate student senior theses since 1988