Amelia Endicott Shevenell

Associate Professor

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APPOINTMENTS/EMPLOYMENT

2017-	Associate Professor , College of Marine Science, University of South Florida, St. Petersburg, Florida, USA.
2011-2017	Assistant Professor , College of Marine Science, University of South Florida, St. Petersburg, Florida, USA.
2011-	Research Associate , Department of Earth Sciences, University College London (UCL), London, United Kingdom.
2007-2011	Lecturer (<i>Probationary</i> (equivalent to Assistant Professor) from 2007-2009); Permanent (equivalent to Associate Professor [tenured], 2010-2011), Department of Geography (60%) and Department of Earth Sciences (40%), University College London, London, United Kingdom.
2005-2007	Postdoctoral Fellow, Program On Climate Change, JISAO/School of Oceanography, University of Washington, Seattle, Washington, USA.
1998-2004	Research and Teaching Assistant, Department of Geological Science, University of California Santa Barbara, Santa Barbara, California, USA.
1997-1998	Geologist/Associate Environmental Scientist, Montgomery Watson, Juneau, Alaska, USA.
1996-1997	Chemistry Laboratory Technician/ Health and Safety Officer, Montgomery Watson Laboratories, Juneau, Alaska, USA.
1994-1996	Research and Teaching Assistant, Department of Geology, Hamilton

PROFESSIONAL PREPARATION

Associate Fellow of the Higher Education Academy, University College London (2009) Postgraduate Certificate in Learning and Teaching in Higher Education

College, Clinton, New York, USA.

Ph.D. Marine Science, University of California Santa Barbara (2004) *Dissertation:* The role of climate feedbacks in the middle Miocene climate transition, *Advisor:* J.P. Kennett

M.Sc. Marine Science, University of California Santa Barbara (2001)

Thesis: Antarctic Holocene climate change: A stable isotopic record from Palmer Deep, *Advisor:* J.P. Kennett

B.A. Geological Sciences, Hamilton College, with honors (1996)

Thesis: Record of Holocene climate change along the Antarctic Peninsula: Evidence from glacial marine sediments, Lallemand Fiord

Advisor: E.W. Domack

HONORS AND AWARDS

AGU Outstanding Reviewer (2016)

Chosen by AGU's Journal Editors for outstanding peer review (Geophysical Research Letters)

IODP Distinguished Lecturer (2014-2015)

Lecturers are peer/community nominated and selected by IODP US Science Advisory Committee (USAC) and the US Science Support Program. Selected speakers visit small/remote institutions that could not otherwise invite outside speakers. See program description in statement.

Lecture Title: The Southern Ocean Reveals its climate secrets: Paleotemperatures from Antarctic margin marine sediments (www.usssp-iodp.org/lecture/shevenell)

Lecture Institutions: Rensselaer Polytechnic Institute, Wesleyan University, University of Texas Arlington, University of Arkansas, Winona State University, Bowling Green State University (three talks), Case Western Reserve, Virginia Tech

GSA Storrs Cole Memorial Research Award (2006)

Awarded to a Geological Society of America Member or Fellow between 30 and 65 years of age who has published one or more significant papers on invertebrate micropaleontology

Postdoctoral Research Fellowship, Institute for Marine and Coastal Sciences, Rutgers University, New Jersey (declined, 2004)

Wendell Phillips Woodring Memorial Graduate Fellowship (2003)

Awarded by the UCSB Geological Sciences faculty to a graduate student working on a Ph.D. dissertation proposal of superior quality, judged capable of seeing the project to a distinguished and early completion

Marine Science Fellowship, University of California Santa Barbara (1998-1999)

Antarctic Service Medal (1995, 1998, 2001, 2012, 2013, 2014, 2018)

Rogers Prize in Geology, Hamilton College (1996)

Awarded by faculty to the outstanding senior geology major

L. David Hawley Prize Scholarship in Geology, Hamilton College (1995)

Awarded by the faculty to the outstanding junior geology major who exhibits promise as a scientist and intends to pursue a career in geology

PROFESSIONAL AFFILIATIONS

American Chemical Society, American Geophysical Union, Association for Women Geoscientists, Geological Society of America, GetSETWoman/UK Resource Centre for Women, The Oceanography Society

PUBLICATIONS

Statistics (Google Scholar, 2/2719)

Total Citations: 1283

Most highly cited paper: 425 citations

H-index: 15

First Author H-index papers: 8

Average citations per H-index paper: 81 (4 first author papers over 100 citations)

1.a. Peer reviewed Publications

- 1. Escutia, C., DeConto, R., Dunbar, R., De Santis, L., **Shevenell, A.E.**, and T. Naish, *in press*. Keeping an eye on ice sheet stability. Celebrating 50 years of Scientific Ocean Drilling, *Oceanography*.
- 2. *Smith, C., Warny, S., **Shevenell, A.E.,** Gulick, S.P.S., and A. Leventer, 2018. New species from the Sabrina Flora: An early Paleogene pollen and spore assemblage from the Sabrina Coast, East Antarctica. *Palynology*, DOI: 10.1080/01916122.2018.1471422.
- 3. McKay, R., Exon, N., Müller, D., Gohl, K., Gurnis, M., **Shevenell, A.**, Henrys, S., Inagaki, F., Pandey, D., Whiteside, J., van de Flierdt, T., Naish, T., Heuer, V., Morono, Y., Coffin, M., Godard, M., Wallace, L., Kodaira, Shuichi, K., Bijl, P., Collot, J., Dickens, G., Dugan, B., Dunlea, A., Hackney, R., Ikehara, M., Jutzeler, M., McNeill, L., Naik, S., Noble, T., Opdyke, B., Pecher, I., Stott, L., Uenzelmann-Neben, G., Vadakkeykath, Y., Wortmann, U., 2018. Developing community-based scientific priorities and new drilling proposals in the Southern Indian and Southwest Pacific Oceans. *Scientific Drilling*, **24**, 61-70.
- 4. Fernandez, R., Gulick, S.P.S., Domack E., Montelli, A., Leventer, A., **Shevenell, A.E.**, B. Frederick, and the NBP14-02 Science Party, 2018. Past ice stream and ice sheet changes on the continental shelf off Sabrina Coast, East Antarctica. *Geomorphology* **317**, 10-22.
- 5. *Napier, T.J., Hendy, I.L., Hinnov, L., Brown, E.T., and **A.E. Shevenell**, 2018. Subtropical hydroclimate during Termination V (~430-422 ka): Annual records of extreme precipitation, drought, and interannual variability from Santa Barbara Basin. *Quaternary Science Reviews* **191**, 73-88.
- 6. *Gray, W.R., Rae, J.W.B., Wills, R.C., **Shevenell, A.E.,** Foster, G.L., Lear, C.H., and A. Burke, 2018. Deglacial upwelling, productivity, and CO₂ in the North Pacific Ocean. *Nature Geoscience* **11**, 340-344 (Featured in News and Views (Jaccard, S. and Galbraith, E., *Nature Geoscience* **11**, 299-300).
- 7. *Petrick, B., McClymont, E., *Clarkson, M., Rohl, U., Rosell-Mele, A., Rueda, G., Pancost, R., Maslin, M., **Shevenell, A.E.,** and K. Littler. 2018. Evolution of the southern Benguela upwelling system and Agulhas leakage over the last 3.5 million years. *Earth Planet Sci. Lett.* **492**, 12-21.
- 8. *Drury, A.J., Lee, G.P., *Gray, W.R., Lyle, M., Westerhold, T., **Shevenell, A.E.,** John, C.M. 2018. Deciphering the state of the late Miocene to early Pliocene equatorial Pacific. *Paleoceanography and Paleoclimatology*. doi: 10.1002/2017PA003245.
- 9. †Gulick, S.P.S., †Shevenell, A.E., Montelli, A., Fernandez, R., Smith, C., Warny, S., Bohaty, S., Sjunneskog, C., Leventer, A., Fredrick, B., and D. Blankenship, 2017. Initiation and long–term instability of the East Antarctic Ice Sheet. *Nature* 552, 225-229 (Cover Image; Featured in News and Views (Greenwood, S., *Nature* 552, 183-184).

- 10. Post, A.L., Lavoie, C., Domack, E.W., Leventer, A., **Shevenell, A.E.**, and the NBP14-02 Science Team, 2017. Benthic community structure and habitat heterogeneity on the Sabrina Coast continental shelf, East Antarctica. *Antarctic Science* **29**, 17-32.
- 11. *Guitard, M.E., **Shevenell, A.E.**, Domack E.W., and C. Lavoie, 2016. Mega-scale glacial lineations and grounding zone wedges in Prydz Channel, East Antarctica. *In* Dowdeswell, J.A., Canals, M., Jakobsson, M., Todd, B.J., Dowdeswell, E.K. & Hogan, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs, **46**, 185-186.
- 12. O'Brien, P.E., Beaman, R., DeSantis, L., Domack, E., Escutia, C., Harris, P.T., Leventer, A., McMullen, K., Post, A., Quilty, P.G., **Shevenell, A.E.,** and C. Batchelor, 2016. Submarine glacial landforms on the cold East Antarctic margin. *In* Dowdeswell, J.A., Canals, M., Jakobsson, M., Todd, B.J., Dowdeswell, E.K. & Hogan, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs, **46**, 501-508.
- 13. *Drury, A.J., John, C.M., and **A.E. Shevenell**, 2016. Evaluating climatic response to external radiative forcing during the late Miocene to early Pliocene: New perspectives from eastern equatorial Pacific (IODP U1338) and North Atlantic (ODP 982) locations. *Paleoceanography* **31**, 167-184.
- 14. Jiang, H., **Shevenell, A.E.**, S. Yu, H. Xu, and X. Mao, 2015. Decadal- to centennial-scale East Asian summer monsoon variability during the Medieval Climate Anomaly reconstructed from an eastern Tibet lacustrine sequence. *Journal of Paleolimnology* **54**(2), 205-222.
- 15. *Gray, W., Holmes, J. and **A.E. Shevenell**, 2014. Evaluation of the effects of foraminiferal trace element cleaning protocols on the Mg/Ca of marine ostracod genius *Krithe*. *Chemical Geology* **382**, 14-23, doi:10.1016/j.chemgeo.2014.05.022.
- 16. *Hopkins, M, Kailasan, S., Cohen, A., Roux, S., Tucker, K.P., **Shevenell**, **A.E.**, Agbandje-McKenna, M., and M. Breitbart, 2014. Diversity of environmental single-stranded DNA phages revealed by PCR amplification of the partial major capsid protein. *ISME Journal*, doi: 10.1038/ismej.2014.43.
- 17. **Shevenell, A.E.** and S.M. Bohaty, 2012. Southern exposure: New paleoclimate insights from Southern Ocean and Antarctic margin sediments. *Oceanography* **25**(3), 106–117.
- 18. **Shevenell, A.E.,** Ingalls, A.E., Domack, E.W., and *C. Kelly, 2011. Holocene Southern Ocean surface temperature variability west of the Antarctic Peninsula. *Nature* **470**, 250-254 (Featured in News and Views (Bendle. *2011. Nature* **470**, 181-182)).
- 19. Thompson, L., Perez, R.C., and **A.E. Shevenell**, 2011. Closed ranks in oceanography. *Nature Geoscience* **4** (4), 211-212.
- 20. Tian, J., **Shevenell, A.E.**, Wang, P., Zhao, Q., Li, Q., and X. Cheng, 2009. Reorganization of Pacific deep waters linked to middle Miocene Antarctic cryosphere expansion: A perspective from the South China Sea. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* doi:10.1016/j.palaeo.2009.10.019.
- 21. **Shevenell, A.E.**, Kennett, J.P., and D.W. Lea, 2008. Middle Miocene ice sheet dynamics, deep-sea temperatures, and carbon cycling: A Southern Ocean perspective. *Geochem. Geophys. Geosystem.* **9**, doi:10.1029/2007GC1736.
- 22. **Shevenell**, **A.E.** and J.P. Kennett, 2007. Cenozoic Antarctic cryosphere evolution: Tales from deep-sea sedimentary records. *Deep Sea Research II* **54**, 2308-2324.

- 23. **Shevenell, A.E.,** Ingalls, A.E., and E.W. Domack, 2007. Orbital and atmospheric forcing of western Antarctic Peninsula climate in the Holocene: The TEX₈₆ paleotemperature record of Palmer Deep. *In* Antarctica: A Keystone in a Changing World. Proceed. of the 10th ISAES X, A.K. Cooper and C.R. Raymond et al., eds, USGS Open-File Report 2007-1047 Extended Abstract 131, 4pp.
- 24. **Shevenell, A.E.**, Kennett, J.P., and D.W. Lea, 2004. Middle Miocene Southern Ocean cooling and Antarctic cryosphere expansion. *Science* **305**, 1766-1770.
- 25. **Shevenell, A.E.** and J.P. Kennett, 2004. Paleoceanographic change during the middle Miocene climate revolution: An Antarctic stable isotope perspective. *Geophys. Mon. Ser. 151*, AGU, Washington DC, pp. 235-252.
- 26. **Shevenell, A.E.** and J.P. Kennett, 2002. Antarctic Holocene climate change: A benthic foraminifer stable isotope record from Palmer Deep. *Paleoceanography* **17**, doi:10.1029/2000PA000596.
- 27. Exon, N.F., Kennett, J.P., Malone, M.J., and **the Leg 189 Shipboard Scientific Party**, 2002. Drilling reveals climatic consequences of Tasmanian gateway opening. *EOS Trans. AGU* **83**, 253-258.
- 28. **Shipboard Scientific Party**, 2001. Leg 189 summary. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–98. doi:10.2973/odp.proc.ir.189.101.2001
- 29. **Shipboard Scientific Party**, 2001. Explanatory notes. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–59. doi:10.2973/odp.proc.ir.189.102.2001
- 30. **Shipboard Scientific Party**, 2001. Site 1168. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–170. doi:10.2973/odp.proc.ir.189.103.2001
- 31. **Shipboard Scientific Party**, 2001. Site 1169. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–64. doi:10.2973/odp.proc.ir.189.104.2001
- 32. **Shipboard Scientific Party**, 2001. Site 1170. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP*, *Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–167. doi:10.2973/odp.proc.ir.189.105.2001
- 33. **Shipboard Scientific Party**, 2001. Site 1171. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–176. doi:10.2973/odp.proc.ir.189.106.2001
- 34. **Shipboard Scientific Party**, 2001. Site 1172. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–149. doi:10.2973/odp.proc.ir.189.107.2001
- 35. Fuller, M., Touchard, Y., Endris, C., and the **Shipboard Scientific Party**, 2001. Appendix: magnetic experiments. *In* Exon, N.F., Kennett, J.P., Malone, M.J., et al., *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program), 1–15. doi:10.2973/odp.proc.ir.189.108.2001
- 36. Robert, C.M., Exon, N.F., Kennett, J.P., Malone, M.J., and the **Leg 189 Shipboard Scientific Party**, 2001. Paleogene ocean opening south of Tasmania, and paleoceanographic implications: Preliminary results of clay mineral analyses [ODP Leg 189]. *Comptes-Rendus de l'Academie des*

- 37. Exon, NF, JP Kennett, MJ Malone, H Brinkhuis, GCH Chaproniere, A Ennyu, P Fothergill, M.D Fuller, M. Grauert, PJ Hill, TR Janecek, DC Kelly, JC Latimer, S Nees, US Ninnemann, D Nürnberg, SF Pekar, CC Pellaton, HA Pfuhl, CM Robert, KL McGonigal, U Röhl, SA Schellenberg, **AE Shevenell**, CE Stickley, N Suzuki, Y Touchard, W Wei, TS White. 2001. *Proc. ODP, Init. Repts.*, 189: College Station, TX (Ocean Drilling Program). doi:10.2973/odp.proc.ir.189.2001
- 38. **Shevenell, A.E.**, Domack, E.W., and G.M. Kernan, 1996. Record of Holocene climate change along the Antarctic Peninsula: Evidence from glacial marine sediments, Lallemand Fjord. *Papers and Proceedings of the Royal Soc. Tasmania* **130**, 55-64.

1.c. In Revision

- 39. *Montelli, A., Gulick, S.P.S., Fernandez-Vasquez, R., Frederick, B., **Shevenell, A.E.**, Leventer, A., and D. Blankenship, *in revision* (ms#B35100; major revisions). Seismic stratigraphy of the Sabrina Coast shelf, East Antarctica: A history of early dynamic glaciations. *GSA Bulletin*.
- 40. *Williams, C., **Shevenell, A.E.,** Lowell, T.V., Hastings, D.W., and B.P. Flower, *in revision*. The deglacial retreat of the Laurentide Ice Sheet's southern margin: Meltwater provenance insights from the Gulf of Mexico. *Quaternary Science Reviews*.
- 41. **Shevenell, A.E.**, Herold, N., Huber, M., and D. Müller, *in revision*. The Miocene Atlantic Ocean. *Paleoceanography and Paleoclimatology*.

1.c. Submitted/In Review

42. McKay, R.M., De Santis, L., Kulhanek, D.K., and the **Expedition 374 Scientists**, *in review*. Expedition 374 Preliminary Report: Ross Sea West Antarctic Ice Sheet History. *Proceedings of the International Ocean Discovery Program, 374*: College Station, TX. (includes 7 individual chapters and appendices).

1.d. In Preparation for Summer 2019 submission (more than 75% completed)

- 43. *Guitard, M.E., **Shevenell, A.E.**, Leventer, A.R., Rosenheim, B.E., and Y. Yokoyama, *in prep 90% complete as of January 2019.* Millennial-scale variations of an East Antarctic outlet glacier during the last glaciation. *Nature.*
- 44. *Vadman, K., **Shevenell, A.E.,** Leventer, A.R., and B.E. Rosenheim, *in prep, 90% complete as of January 2019*. High-resolution Deglacial to Holocene paleoceanographic record from the outlet of the Aurora Subglacial Basin, East Antarctica. *Paleoceanography and Paleoclimatology*.
- 45. *Browne, I. **Shevenell, A.E.,** Leventer, A.R., Schwing, P., Rosenheim, B.E., M. Duffy, and J. Jaeger, *in prep, 90% complete as of January 2019*. Upper ocean warming and sea ice decline over the past two centuries in the Palmer Deep, western Antarctic Peninsula. *Geophysical Research Letters*.
- 46. **Shevenell, A.E.**, Kennett, J.P., and G. Simpson, *in prep 90% complete as of June 2018*. Middle Miocene evolution of high latitude Southwest Pacific vertical water column structure as revealed by planktonic foraminifer faunas and stable isotopes. *Marine Micropaleontology*.

2. Non-Peer Reviewed Publications

47. **Shevenell, A.E.**, 2016. Commentary: Drilling and Modeling studies expose Antarctica's Miocene secrets. *Proceed. Nat. Acad. Sci.* **113** (13), 3419-3421.

- 48. **Shevenell, A.E.**, 2014. Autobiographical Sketch. Women in Oceanography: A Decade Later. *Oceanography* **27** (4; supplement), 219.
- 49. Hastings, D.W., **Shevenell, A.E.,** and J.P. Kennett, 2012. Benjamin P. Flower (1962-2012). *EOS Trans. AGU*, **93** (40).
- 50. Thompson, L., Perez, R.C., and **A.E. Shevenell**, 2011. Not just family matters, Reply. *Nature Geoscience*, **4** (6), 346.
- 51. Filippelli, G., Warnke, D., Flores, J.A., Marchitto, T., and the **Southern Ocean Synthesis Group**, 2005. Paleoceanography and paleoclimatology of the Southern Ocean. *EOS Trans. AGU* **86** (193) 195.
- 52. Exon, N., Kennett, J., Malone, M., and the **Leg 189 Shipboard Scientific Party**, *2000.* The opening of the Tasmanian gateway drove global Cenozoic paleoclimatic and paleoceanographic changes: Results of Leg 189. *JOIDES J.* **26** (2), 11-17.

3. Technical Reports

- 53. McKay, R.M., De Santis, L., Kulhanek, D.K., and the **Expedition 374 Scientists**, 2018. Expedition 374 Preliminary Report: Ross Sea West Antarctic Ice Sheet History. International Ocean Discovery Program, 374, https://doi.org/10.14379/iodp.pr.374.2018
- 54. Leventer, A. (Chief Scientist), Domack, E., Gulick, S.P.S., Huber, B., Orsi, A., and **A. Shevenell** (Pls listed alphabetically). 2015. NBP14-02 Cruise Report: Sabrina Coast marine record of cryosphere-ocean dynamics. 469 pages.

*Student author †Co-First author

FUNDING HISTORY

1. Externally Funded/Expeditions

Shevenell, A.E. (Associate Investigator) led by R. McKay (PI; Victoria University Wellington, NZ), Antarctic Ice Sheet interactions with the ocean during past warm climates, Royal Society of New Zealand Marsden Fund grant, \$960,000NZ (\$661,482 US) (2018).

Shevenell, A.E. (**PI**; 2018), IODP Expedition 374 PEA: Miocene to Pleistocene ice volume, ocean temperature, bottom water ventilation, and productivity over the Ross Sea Continental shelf, Antarctica: Insights from stable isotope and trace element studies of foraminifers and bulk sediments, USSSP, **\$18,000** (2018).

Shevenell, A.E. (PI), *Browne, I (Co-PI; 2018), IODP Expedition 374 PEA: Exploring early to middle Miocene polar amplification: Biomarker reconstructions of oceanic and atmospheric temperatures from IODP Expedition 374, Site U1521, USSSP, **\$18,000** (2018).

Shevenell, A.E. (PI; 2018). NSF ANT AES #1744970: Deglacial to recent paleoceanography of the Sabrina Coast, East Antarctica: A multiproxy study of ice-ocean interactions at the outlet of the Aurora Subglacial Basin **(\$305,139)**

- **Shevenell, A.E.** (**PI**; 2018), IODP Expedition 374–Ocean-ice sheet interactions and West Antarctic Ice Sheet vulnerability: Clues from the Neogene and Quaternary record of the Ross Sea continental margin, USSSP, **\$56,716** (2018).
- **Shevenell, A.E. (PI;** 2018), NSF ANT AES #1246378. Late Quaternary Evolution of the Lambert Glacier/Amery Ice Shelf System, Prydz Bay, Antarctica (**\$42,689**).
- **Shevenell, A.E. (PI)**, Gulick, S.P.S., Naish, T., Williams, T., Van de Fleirdt, T., Warny, S., Armand, L., Bohaty, S., Uenzelmann-Neben, G., Levy, R., Aitken, A., Rob McKay, R., Stoner, J., Patterson, M., Palike, H., Sangiorgi, F., and J. Biddle. 2017.931-Pre: East Antarctic Ice Sheet evolution and paleoclimate of the Aurora Basin since the late Cretaceous. A mission specific platform proposal to drill the Sabrina Coast Shelf, IODP Science Evaluation Panel (*Recommended for Full Proposal*).
- Gurnis, M., **Shevenell, A.E.** (**Co-Pl**; 2017), *Workshop:* IODP Australasian Regional Workshop in 2017 for building new IODP Proposals, US Science Support Program, **\$40,000**. Rosenheim, B.E. (PI), **Shevenell, A.E.** (Co-PI), and A.E. Ingalls (UW; Co-PI), NSF ANT AES #1644117: Collaborative Research: Time Matters- A comparison of diatom ¹⁴C and thermochemical ¹⁴C dating methods in sediment records of ice retreat from East and West Antarctic margins, **\$439,405** (2017-2020).
- McKay, R., DeSantis, L., **Shevenell, A.**, Bart, P., Williams, T., Levy, R., Bartek, L., Sjunneskog, C., Orsi, A., Warny, S., DeConto, R., Pollard, D., Suganuma, Y., and J. Hong, IODP Expedition 374: Ocean-ice sheet interactions and West Antarctic Ice Sheet vulnerability: Clues from the Neogene and Quaternary record of the Ross Sea continental margin. Scheduled: *JOIDES Resolution*, January 4-March 8, 2018 (\$12,000,000).
- Williams, T., **Shevenell, A.E.,** Gulick, S.P.S., Kulhanek, D., Domack, E.W., McKay, R., DeSantis, L., and C. Escutia. *Workshop:* Antarctica's Cenozoic ice and climate history: New science and new challenges of drilling in Antarctic waters, US Science Support Program, **\$39,690** (2016-2017).
- **Shevenell, A.E.,** National Science Foundation Division of Polar Programs travel award, SCAR International Symposium on Antarctic Earth Sciences, Goa, India, **\$1,200** (2015).
- R. Levy; Co-Proponents (Alphabetical): Bohaty, S., DeConto, R, Florindo, F., Gebhardt, C., Harwood, D., Jovane, L., Kulhanke, D., Lee, J., McKay, R., Naish, T., Paulsen, T., Rack, F., **Shevenell**, **A.**, Suganuma, Y., Wellner, J., and D. Wilson. ICDP: The Coulman High project: Drilling beneath the Ross Ice Shelf to understand Antarctic ice sheet sensitivity to climatic and tectonic forcing in a high CO_2 world. (**\$1,000,000**; June 2014. Funds allocated and available contingent on matching from NSF and/or IODP).
- **Shevenell, A.E.** (PI), NSF OPP #1246378. Late Quaternary Evolution of the Lambert Glacier/Amery Ice Shelf System, Prydz Bay, Antarctica (**\$267,712**; 2013-2017).
- **Shevenell, A.E.** (PI), Wilson, K.E., Swann, G., and M.J. Leng, NERC Isotope Geosciences Facility Award, IP-1348-1112: A Role for the North Pacific in deglacial atmospheric CO₂ rise? £18,000 (\$28,326; 2013-2014).
- **Shevenell, A.E.,** Consortium for Ocean Leadership. Ross Sea IODP proposal writing workshop, USF College of Marine Science, **\$5,000** (June 11-16, 2013).
- **Shevenell, A.E.** (PI) (student PI: T. Snow, USF CMS), Consortium for Ocean Leadership. *Schlanger Ocean Drilling Fellowship:* Early Circum-Arctic glacial decay during major deglaciations of the past 500 kyr? **\$30,000** (2012-2013).

- **Shevenell, A.E.,** Maslin, M., Davies, M., Guilderson, T., and I. Hendy, NERC. A role for the North Pacific Ocean in deglacial atmospheric CO₂ rise? £464,904 (\$731,620; based on average exchange rate for award period; 2011-2014).
- S. Hautala (PI), **Shevenell, A.,** (Co-PI), Thompson, L. (Co-PI), and P. Johnson (Co-PI), NSF OCE Physical Oceanography #0726519. Ocean circulation and climate impacts of proglacial lake outbursts into the Northeastern Pacific Ocean, **\$605,752** (2007-2010).
- S. Emerson (PI), **Shevenell, A.,** (Co-PI; Primary author), and M. Brzezinski (Co-PI; UCSB), NSF OCE Marine Geology and Geophysics Award #0729954. *SGER-Collaborative Research:* Paleoceanographic evidence for changes in ocean circulation and the ecological effects of iron fertilization in the Northwest Pacific (0-20 ka), **\$53,111** (2007-2009).
- S. Emerson, Ingalls, A., and **A. Shevenell** (Co-PI; primary author), NSF OPP Award #0620099. *SGER:* Extracting Holocene sea surface temperature, ventilation, and productivity records from Antarctic continental margin sediments: Novel geochemical insights from Palmer Deep, **\$26,953** (2006-2008).
- J.P. Kennett (PI) and **A. Shevenell** (Primary author), NSF OPP Award #0229898. The middle Miocene climate transition: Investigating magnitude, phasing, and processes involving cryosphere expansion and global cooling, **\$111,093** (2003-2005).
- J.P. Kennett (PI) and **A. Shevenell** (Primary author), JOI/USSSP Post-Cruise Funding, ODP Leg 189. High-resolution stable isotopic and foraminifer investigations of the middle to late middle Miocene climate transition: ODP Leg 189, South Tasman Rise, **\$20,000** (2000-2001).

2. Internally Funded (since 2005)

All international funds are converted to US dollars using the average exchange rate for award year.

- USF Conference Support Grant, Welcome reception for the International Ocean Discovery Program, **\$2,500** (2016).
- UCL Graduate School Research Project Grant, West Antarctic Ice Sheet and global sea level variations in the late Miocene (7-5 Ma): Insights from the oxygen isotopic composition of seawater, £1,400 (\$2,310; 2010).
- UCL Dean's Travel Fund, 10th International Conference on Paleoceanography, San Diego, CA, August 29-September 3, 2010. £750 (\$1,240; 2010).
- M.Sc. Research Fund, UCL ENSIS Ltd. Trust, £500/student (2008-2010: 5 students; £2,500; \$4,250).
- UCL Graduate School Staff Conference Fund, £600/trip (AGU 2008, AGU 2009; £1,200; \$2,160).
- Maslin, M., McArthur, J., Robinson, S., **Shevenell, A**., and Thurow, J., UCL Capital Infrastructure Funds for an interdepartmental environmental ICP-MS Facility, £350,000 (\$700,000; 2008).
- **A. Shevenell** (PI), UW Program on Climate Change. Trace metals in Antarctic Holocene Sediments, **\$3,500** (2005).

3. Graduate Student Funding and Awards

Guitard, M. (**USF**; **Shevenell PI**), Shipboard Science Party (Physical Properties), IODP Expedition 382, USSSP, **\$8,224.15** (2018-2019).

- **C. Prunella (USF)**, Thomas E. Pyle Memorial Fellowship, University of South Florida College of Marine Science, **\$10,000** (2018).
- I. Browne (USF; Shevenell, PI), Shipboard Science Party (Physical Properties), IODP Expedition 374, USSSP (\$7,897) (2018)
- **M.** Guitard (USF), Thomas E. Pyle Memorial Fellowship, University of South Florida College of Marine Science, \$10,000 (2017).
- **C. Prunella (USF),** Anne and Werner Von Rosenstiel Fellowship in Marine Science, University of South Florida College of Marine Science, **\$23,000** (2017).
- **I. Browne (USF),** William and Elsie Knight Endowed Fellowship for Marine Science (\$25,000 and \$2,000/yr for expenses) (2017-graduation).
- **I. Browne (USF),** Association for Women Geoscientists (AWG) Takken Travel Award (\$500) (2016).
- I. Browne (USF), Joseph A. Cushman Award for Student Travel (\$871.50) (2016).
- **K. Vadman (USF)**, International Conference on Paleoceanography Student Travel Award (\$400) (2016).
- **I. Browne (USF)**, International Conference on Paleoceanography Student Travel Award (\$400) (2016).
- **M. Guitard (USF)**, International Conference on Paleoceanography Student Travel Award (**\$400**) (2016).
- **K. Vadman (USF)**, NSF Graduate Research Fellowship, **\$138,000** (2016-2019; one of three awarded to USF in 2016).
- **K. Vadman (USF),** USF Southern Kingfish Association Fellowship, University of South Florida College of Marine Science, **\$10,000** (2016; declined due to NSF GRFP; awarded **\$3,000**).
- **K. Vadman (USF),** Loeblich and Tappan Student Research Award, Cushman Foundation, Mg/Catemperature calibration and reconstruction of bottom water paleotemperatures on the Sabrina Coast, East Antarctica using benthic foraminifer *Trifarina angulosa*. **\$1,500** (2016).
- **I. Browne (USF),** New Zealand Fulbright Science and Innovation Graduate Award, University of South Florida, College of Marine Science **\$33,000** (2015-2016).
- **M. Guitard (USF)**, National Science Foundation Division of Polar Programs travel award, SCAR International Symposium on Antarctic Earth Sciences, Goa, India, **\$1,900** (2015).
- **M. Guitard (USF),** McKnight Doctoral Fellowship, Florida Education Fund, **\$125,000** (2014-present; 5 years).
- **K. Vadman (USF),** USF Southern Kingfish Association Fellowship, University of South Florida College of Marine Science, **\$10,000** (2015-2016).
- **K. Vadman (USF),** Garry Jones & Brian O'Neill Memorial Grant for NAMS Student Research, North American Micropaleontology Section, Society for Sedimentary Geology, **\$1,000** (2015).
- **K. Vadman (USF),** Anne and Werner Von Rosenstiel Fellowship in Marine Science, University of South Florida College of Marine Science, **\$23,000** (2014).

- **T. Snow (USF)**, Antarctic Science Bursary: Tracing Circumpolar Deep Water intrusion in the Moscow University/Totten Glacier system, East Antarctica using novel microbial biomarkers. Co-PI: **A. Shevenell**, **\$7,975** (2014).
- **M. Guitard (USF),** NSF East Asia and Pacific Summer Institutes for US Graduate Students (EAPSI), *Host*: Dr. Y. Yokoyama, U. of Tokyo, **\$10,000** (2014).
- **M. Guitard (USF),** Third Prize, Graduate Student Symposium, University of South Florida, College of Marine Science, **\$250** (2013).
- M. Guitard (USF), NSF Graduate Research Fellowship Program, Honorable Mention (2013).
- M. Guitard (USF), Alfred P. Sloan Foundation/ FGLSAMP Bridge Fellowship, \$33,500 (2013-2014).
- **M. Guitard (USF),** FGLSAMP Bridge to the Doctorate Fellowship (NSF HRD #1139850), **\$33,500** (2012-2013).
- **T. Snow (USF),** Student Travel Grant, 11th International Conference on Paleoceanography, Sitges, Spain, September 1-6, €500 (~\$670; 2013).
- T. Snow (USF), NSF Graduate Research Fellowship, \$108,000 (2013-2016).
- **T. Snow (USF),** Geological Society of America Graduate Student Research Grant; *Title:* Arctic sea ice in Fram Strait during Termination 1 (25-13ka), **\$2,125** (2013).
- **T. Snow (USF),** Schlanger Ocean Drilling Fellowship, *Title:* Early Circum-Arctic glacial decay during major deglaciations of the past 500 kyr? Consortium for Ocean Leadership, **\$30,000** (2012-2013).
- T. Snow (USF), Charles H. Bussmann Graduate Scholarship, \$2,500 (2012-2013).
- **C. Williams (USF),** Student Travel Grant, 11th International Conference on Paleoceanography, Sitges, Spain, September 1-6, **€500** (~**\$670**; 2013).
- **C. Williams (USF),** Geological Society of America Graduate Student Research Grant, *Title:* Glacial-interglacial controls on sedimentary oxygenation in the northern Gulf of Mexico, \$1,275 (2013).
- **C. Williams (USF),** Knight Endowed Fellowship in Marine Science, USF College of Marine Science, **\$54,000** (total); \$25,000 + \$2,000 expense account, tuition waiver, and health insurance per year (2012-2014).
- W. Gray (UCL), NERC Studentship, UCL Geography, £40,000 (\$66,000; 2010-2014)

SERVICE

1. Professional Service

Elected Geological Oceanography Council Member, The Oceanography Society (2019-2022)

Outstanding Student Presentation Award (OSPA) Judge, 2018 AGU Fall Meeting, Paleoceanography and Paleoclimatology section (2018).

Invited Panel Member, NSF Office of Polar Programs, Antarctic Earth Sciences (October 2018).

Invited Panel Member, NSF Ocean Sciences, *JOIDES Resolution* Support Office Renewal (June 2018).

Editorial Board Member, *Journal of Marine Science and Engineering,* Section: Geological Oceanography (2018-present)

Invited participant, JOIDES Resolution Assessment Workshop (JRAW), Denver CO, Sept 27-28, 2017

Proponent/Steering Committee Member, IODP Australasian Regional Workshop in 2017 for building new IODP Proposals, June 12-17, 2017 in Sydney, Australia.

Invited Panel Member, NSF OCE Marine Geology and Geophysics (May 2017).

Invited participant, IODP Proposal Development Workshop: Drilling strategies for assessing links between Quaternary Gulf Stream dynamics, pore pressure evolution, and slope stability on the Western North Atlantic Margin, Southern Methodist University, 11-13 April, 2017.

Outstanding Student Presentation Award (OSPA) Judge, 2016 AGU Fall Meeting, Paleoceanography and Paleoclimatology section (2016).

Proponent/Steering Committee Member, USSSP Workshop: Antarctica's Cenozoic ice and climate history: New science and challenges of drilling in Antarctic waters (http://usoceandiscovery.org/workshop-antarctic-ice-climate/) May 19-11, 2016 at Texas A&M University.

Invited Inaugural Member, Antarctic Core Collection Advisory Committee, Antarctic and Southern Ocean National Collection of Rock and Sediment cores, Oregon State University (via a NSF cooperative agreement; 2017-2020)

Invited Member, Friends of IODP (ad hoc group of scientists in IODP leadership; 2014-present).

Invited Member, Antarctic Marine Geology Research Facility Deaccession/Inventory Committee (2015-2018).

Outstanding Student Presentation Award (OSPA) Judge, 2015 AGU Fall Meeting, Paleoceanography and Paleoclimatology section (2015).

Invited Advisory Committee Member, United States Advisory Committee for Scientific Ocean Drilling (USAC), Consortium for Ocean Leadership/LDEO, *Term:* September 2014-October 2018.

Session Co-Convener, 2014 AGU Fall Meeting, *Title:* Cenozoic through modern climate and glacial records and processes at high-latitude margins; Session ID: PP-22A, -23D, -24A, Co-Conveners: C. Cook (UF), A. Shevenell (USF), C. Huck (Imperial College), E. McClymot (Durham University) (2014).

Outstanding Student Presentation Award (OSPA) Judge, 2014 AGU Fall Meeting, Paleoceanography and Paleoclimatology section (2014).

Invited Panel Member, NSF Office of Polar Programs, Antarctic Marine Geology Research Facility (October 2014).

Steering Committee Member/Guest Editor, Women in Oceanography: A Decade Later. *Oceanography*, **27** (4, supplement) (October-December 2014). Served as a Steering Committee member and guest editor for peer-reviewed papers in the 258-page *Oceanography* supplement.

Proponent/Organizer, Consortium for Ocean Leadership. Ross Sea IODP Proposal Writing Workshop, USF College of Marine Science, **\$5,000** (June 11-16, 2013).

Invited Panel Member, NSF Office of Polar Programs, Antarctic Marine Geology Research Facility (May 2013).

Invited Panel Member, NSF OCE Marine Geology and Geophysics (June 2013).

Co-Chair, Climate and Ocean Section, IODP Science Evaluation Panel (formerly PEP) (2013-2014).

Invited Panel Member, IODP Proposal Evaluation Panel (PEP) (2011-2013).

Invited Participant, SW Pacific IODP planning workshop, Sydney, Australia (October 9-11, 2012; at sea and unable to attend).

Invited Speaker/Participant, Antarctic and Southern Ocean Drilling Workshop, XXXII SCAR Meetings and Open Science Conference, Portland OR (July 12-13, 2012; via Skype). **Invited Participant**, IODP Building US Strategies for 2013-23 Scientific Ocean Drilling, Consortium of Ocean Leadership, Denver CO (April 30-May 2, 2012).

UK IODP Invited Participant, Forcings and Feedbacks workshop, Cardiff, Wales (NERC UK IODP Funding) (February 16-17, 2011).

UK IODP Participant, IODP INVEST, Bremen, Germany (NERC UK IODP Funding-£400 (2009)).

Participant, The Leverhulme Climate Symposium 2008. Earth's Climate: Past, Present and Future. University of Cambridge and the Royal Society, London (March 2008).

Invited Speaker/Participant, Towards an Integrated Data-Modeling perspective of Miocene climate Change: ECOM Workshop, Bremen, Germany (2006).

Invited Participant, JOI Southern Ocean Synthesis Workshop, Boulder, CO (2005).

Session Chair, PP11B, AGU Fall Meeting, San Francisco, CA (2005).

Peer Reviewer: NSF OCE MG&G, CO, IODP, ES, ANT/PLR, NERC, Italian Antarctic Programme, Royal Society of New Zealand, University of Washington Royalty Research Fund, ETH Zurich Research Commission, DFG (German funding agency), FONDECYT (Chile), *Antarctic Science, Climate of the Past, Earth and Planetary Science Letters, Nature, Nature Communications, Nature Geoscience, Nature Climate Change, Geophysical Research Letters, G³, Geology, The Holocene, Journal of Analytical Atomic Spectrometry, Marine Micropaleontology, Paleoceanography and Paleoclimatology, Paleo³, PNAS, Quaternary Science Reviews, Science, Science Advances, Geochmica Cosmochimica Acta.*

2. University Service

Organizer, USF CMS Seminar Series (2019-)

Chair, USF CMS Eminent Scholar Lecture Series Planning Committee (2018-present).

Co-Chair/Chair, Search Committee Member, USF CMS Geological Oceanography Search (2018-2019).

Member, USF CMS IMSE committee (2017-present)

Member, USF CMS website committee (2015-present)

Geological Oceanographer Member, Deans Advisory Committee (2018-present)

Search Committee Member, USF CMS Physical Oceanography Search (2014-2015).

Member, USF CMS Space Committee (2013-present).

Member, USF CMS Student Recruitment Standing Committee (2012-2014).

Member, USF CMS Eminent Scholar Lecture Series Planning Committee (2012-2013).

Search Committee Member, USF CMS Chemical Oceanography Search (2012-2013).

Search Committee Member, USF CMS Paleoceanography Search (2012-2013).

Member, USF CMS Ad-Hoc Undergraduate Teaching Committee (2011-2012).

Member, UCL Department of Geography Hiring Committee (2011; Dr. Chris Brierley).

UCAS Admissions Interviewer, UCL Department of Geography (2010-2011).

Member, UCL Department of Geography Hiring Committee (2010; Prof. Chronis Tzedakis).

Member, UCL Birkbeck Department of Earth and Planetary Sciences Hiring Committee (2010; Dr. Phil Hopley).

Invited Member, UCL Earth Sciences Ad-Hoc Departmental Review Committee (2010).

Member, UCL Department of Earth Sciences Bloomsbury Environmental Isotope Facility Technician Hiring Committee (2010; Ms. Dorinda Ostermann).

Member, UCL Earth Sciences Research Standing Committee (charged with admitting postgraduate students to UCL Earth Sciences; 2009-2011).

Founder/Convener, UCL Paleoclimate Working Group (2009-2011).

Chair, UCL Interdepartmental Environmental ICP-MS Facility Management Committee (2009-2011).

3. Public Service

Invited representative (The Oceanography Society), Capitol Hill Climate Week, Washington DC (March 12-14, 2019).

Invited Panel Member, *Chasing Ice* movie and panel discussion, Saint Pete City College, UF/IFAS Extension Pinellas County (2018)

Media coverage of Antarctic research: Nature Geoscience, National Geographic, Physics Today, Earth, Wired, Nature Geoscience, Watts up with that, the Verge, Newsweek, Kansas City Info, The Independent, Ecowatch, Truthdig, International Business Journal, Tech2, The Times (UK), Discover Magazine.

Invited Interview, *Amelia Shevenell: Big Ideas and Big Risks*, Forecast podcast: a podcast about climate science and climate scientists with Nature's editor for climate science. Michael White.

http://forecastpod.org/index.php/2016/10/07/amelia-shevenell-big-ideas-and-big-risks/ (10/7/2016)

Invited Speaker, Safe Return Doubtful: Climate lessons from Antarctica, Pint of Science (www.pintofscience.us/events/tampa), Amsterdam Pub, St. Petersburg, FL (May 19, 2015)

Invited Panel Member, Chasing Ice movie and panel discussion, Booker Creek Preserve, UF/IFAS Extension Pinellas County (2014)

Science Blog, <u>www.ameliashevenell.wordpress.com</u>, blog for Antarctic research cruises LMG12-11 (October, 2012), LMG13-11 (October 2013), NBP14-02 (January-March, 2014), and IODP Expedition 374 (January-March, 2018). 19,540 total views as of February 2019 and 5,675 unique visitors. During cruises, we average 400-500 unique visitors and 2000-3000 page views/month.

Shevenell Lab Twitter account (@ashevenell), 1200 followers

Expedition Antarctica Facebook page, original research content from Shevenell lab expeditions; during cruises, 376 likes, page receives 500-1000 unique hits per week.

Invited speaker, Junior Kindergarten, Shorecrest Preparatory School, St. Petersburg, FL (2013)

Invited Panel Member, Mark Dion Troubleshooting colloquium: Studying people, places, and systems: Ecology and academic pursuits? USF Contemporary Art Museum and Graphicstudio, Tampa (February 10, 2012)

Invited Panel Member, Careers Conference, UCL Horizons Outreach (2010)

Mentor, MentorSET, UKRC GetSET Women (2009-2011)

Invited Presenter, Bright Club, UCL Public Engagement Unit (2009)

TEACHING/MENTORING

1. Post-doctoral Mentoring

Dr. Montserrat Alonso-Garcia, USF (2012-2013), Performed research examining ice rafted debris in sediment cores from the North Atlantic during the last deglaciation (PI Flower). Currently a Research Associate at the University of Salamanca, Spain.

Dr. Katy Wilson, UCL/USF (2011-2014), NERC Postdoctoral Research Associate. Generated radiocarbon and geochemical data from marine sediments to understand the role of the North Pacific Ocean in deglaciation (25-8 ka). As a requirement of NERC funding, Dr. Wilson was based in the UK. She spent the maximum time (6 months) allowed by the US Customs and Border Protection visa waiver program, at USF in 2012 and 2013, as well as 1 month in 2014.

2. Graduate Student Mentoring

2a. USF Degrees Granted (Dissertation/Thesis Director)

Dr. Clare Williams, Ph.D., 2014. University of South Florida College of Marine Science, *Dissertation:* A multi-proxy approach to understanding abrupt climate change and Laurentide Ice Sheet melting history based on Gulf of Mexico sediments; *Funding:* CMS Knight Fellowship (2012-2014; started in 2007 with B. Flower).

Tasha Snow, MSc., 2014. University of South Florida College of Marine Science, *Thesis:* Timing of Svalbard/Barents Sea Ice Sheet deglaciation; *Funding:* NSF Graduate Research Fellowship (2013-2016); Schlanger Ocean Drilling Fellowship (2012-2013; started in 2011 with B. Flower)

Michelle Guitard, MSc., 2015. University of South Florida College of Marine Science, *Thesis:* Millennial-scale variability of a major East Antarctic outlet glacier during the last glaciation; *Funding:* USF NSF LSAMP Bridge to the Doctorate/Sloan Foundation (2012-2014), NSF EAPSI (2014).

2b. UCL/Royal Holloway Degrees Granted (listed by year and program)

*UCL regulations state that probationary Lecturers (2007-2009) are not allowed to be primary supervisor for Ph.D. students. I began to supervise Ph.D. students in 2010, when I became a permanent Lecturer (equivalent to tenured Associate Professor). UK MSc. students are not expected to publish.

2.b. UK Ph.D. Degrees Granted

Dr. William Gray, Ph.D. 2014. University College London, awarded the Geography Department NERC Studentship, 2010; *Dissertation:* The role of the North Pacific Ocean in the deglacial CO₂ rise: Insights from trace elements and boron isotopes in biogenic carbonates. *Past:* Postdoctoral Researcher at UCSB Department of Geological Sciences with Prof. D.W. Lea and Dr. S. Weldeab, 2014-2016; *Present:* Postdoctoral Researcher with Dr. J. Rae, St. Andrews, Scotland, starting Fall, 2016. *Future:* December 2019: Researcher, Laboratoire des Sciences du Climat et de l'Environment, Universite de Versailles, Paris, France.

Dr. Anna Drury, Ph.D. 2014. Imperial College (co-supervised with Dr. C. John, Imperial College); Present: Postdoctoral researcher at MARUM/University of Bremen (2014-present).

2.c. RHUL/UCL Quaternary Science MSc. Degrees Granted

William Gray, RHUL/UCL Quaternary Science MSc. 2010. Elsevier Prize for Best Dissertation, *Thesis:* Foraminifer stable isotopes and chronology across Termination 1 in the Subarctic Pacific (ODP Site 882).

Matthew Clarkson, RHUL/UCL Quaternary Science MSc. 2010. *Thesis:* Plio-Pleistocene TEX₈₆ and Alkenone SST record from the Benguela region (co-supervised with Profs. M. Maslin and R. Pancost, Bristol (*Petrick et al., 2018*)). *Present:* Postdoctoral Researcher at University of Otago (NZ).

Jon Hancock, RHUL/UCL Quaternary Science MSc. 2010. *Thesis:* Foraminiferal assemblage and isotope evidence for changes in the Benguela-Agulhas interaction over the Mid-Pleistocene Revolution (co-supervised with M. Maslin).

Emma Kahdun, RHUL/UCL Quaternary Science MSc. 2009. *Thesis*: ¹⁴C dating of Missoula Flood interval in NE Pacific sediments. *Past*: Ph.D. Student at Christian Albrecht Universitat Kiel.

Rachel Downy, RHUL/UCL Quaternary Science MSc. 2008. *Thesis:* Trace metals in sediments from the subarctic Pacific (ODP Site 882). *Past:* Technician, British Antarctic Survey; *Present:* Researcher at Senckenberg Research Institute Frankfurt, Germany (2015-present).

2.d. UCL Earth Science M.Sc. Degrees Granted

Stephanie McClennan, Earth Science MSc. 2011. *Thesis:* TEX₈₆, δ^{13} C and TOC% from sediment core NBP-10-01 KC-11, Hugo Island Trough, West Antarctic Peninsula (co-supervised with Dr. Stuart Robinson). *Present:* Journalist with UNESCO.

Mel Green, UCL Earth Science MSc. 2009. *Thesis:* Orbital scale changes in middle Miocene foraminiferal fragmentation and CaCO₃, Shatsky Rise (co-supervised with S. Robinson). *Present:* Research Assistant at UCL Earth Sciences.

2.e. UCL Micropaleontology MSc. Degrees Granted

Helen Griffin, UCL Micropaleontology MSc. 2008. *Thesis:* Holocene expression of the California current: ¹⁴C, stable isotope, and foraminifer assemblages in Cascadia Basin. *Past:* Ph.D. student at Southampton University.

Nick Harvey, UCL Micropaleontology MSc. 2008. *Thesis:* NE Pacific Holocene benthic foraminifer assemblage changes. *Present:* Consulting geologist.

2.f. Current USF Graduate Students (Dissertation/Thesis Director)

Imogen Browne, Ph.D. student, University of South Florida, College of Marine Science, *Dissertation*: Role of the Southern Hemisphere Westerlies from the last deglaciation to the middle Miocene: Insights from Antarctic margin sediments; *Funding* (five years): *Funding* (2015-2020): 2015-2016: NZ Fulbright Science and Innovation Graduate Award; 2016-2017: NSF PLR Award #1246378 to A.E. Shevenell; 2017-2020: USF CMS Knight Fellowship; Advanced to candidacy 2019.

Michelle Guitard, Ph.D. student, University of South Florida, College of Marine Science, *Dissertation:* Late Quaternary to Pliocene evolution of the Amery Ice Shelf system, Prydz Bay, East Antarctica; *Funding:* McKnight Doctoral Fellowship (2014-present), NSF PLR Award #1246378 to A. Shevenell; Advanced to Candidacy, 2018.

Catherine Prunella, M.S. student, University of South Florida, College of Marine Science, *Thesis:* Middle Miocene productivity and oxygenation on the Ross Sea continental Shelf: Insights into the role of ocean temperatures on high-latitude climates. *Funding:* USF CMS Van Rosenstiel Endowed Fellowship (2017-2018), USF CMS Thomas K Pyle Memorial Fellowship (2018).

Kara Vadman, Ph.D., student, University of South Florida, College of Marine Science, *Dissertation:* Holocene ocean temperatures proximal to Totten Glacier, *Funding:* NSF GRFP (2016); CMS Von Rosenstiel Endowed Fellowship (2014-2015); CMS Southern Kingfish Association Fellowship (2015); CMS Teaching Assistant (Geological Oceanography, 2016, 2019 (started as MS student in 2014; switched to Ph.D. program 2016); Advanced to candidacy 2019.

3. Graduate Student Committee Member

3a. USF College of Marine Science

Ryan Venturelli (USF Ph.D. student, *Advisor:* B. Rosenheim, USF CMS; 2015-present)
Elizabeth Browne (USF Ph.D. student, *Advisor:* P. Hallock-Muller, USF CMS; 2009-2018)
Dylan Peck (USF MSc. student, *Advisor:* B. Rosenheim, USF CMS; 2016-present)
Theresa King (USF Ph.D. student, *Advisor:* B. Rosenheim, USF CMS; 2015-present)
Caitlin Reynolds (USF MSc. student, *Advisor:* B. Rosenheim, USF CMS; 2015-2018)
Catherine Smith (USF MS student, *Advisor:* P. Hallock-Muller, USF CMS; 2014-2016)
Cristina Subt (USF Ph.D. student, *Advisor:* B. Rosenheim, USF CMS; 2013-2017)
Dominika Wojciezek (USF Ph.D. student, *Advisor:* B. Flower/B.Byrne, USF CMS, 2012-2013)

3b. UCL Internal Examiner

UCL Internal Ph.D. Examiner, Dr. Alex Dickson, UCL Geography, *Advisor:* M. Maslin; *External Examiner:* D. Hodell (2009).

3c. European External Ph.D. Examiner

External Ph.D. Examiner, Dr. Christine Euler, University of Bergen, Department of Earth Sciences, *Advisors:* U. Ninnemann, H.K Kleiven; *Second External Examiner:* E. Michel; *Internal Examiner:* E. Jansen, (2010).

4. Undergraduate Student Mentoring

Kristen Zitkus (2015) Eckerd College, undergraduate summer intern.

Hannah Shapiro (2013-2014) Eckerd College, *Honors Thesis:* Carbon preservation in eastern Fram Strait following the Last Glacial Maximum.

Stefanie Keever (2005-2007), Chemical Oceanography, University of Washington.

Celia Kelly (2006-2007; deceased), Chemical Oceanography, University of Washington.

Dr. Maureen Davies (2006); Postdoctoral Fellow, Oregon State University; Ph.D., Oregon State University; MS and BS, Geological Oceanography, University of Washington.

Dr. Justine Kimball (2002) Ph.D., Stanford University; BS, Geological Sciences, University of California Santa Barbara.

Formal Classroom Teaching

Coordinator and Instructor, Geological Oceanography (OCG6051; 3 credits; co-taught), USF College of Marine Science (guest taught in Spring 2012 (I); Spring 2013 (I), 2014 (I), 2016 (C), 2017 (I), 2018 (I), 2019 (C)).

Convener, *Topics in Paleoceanography and Paleoclimatology Seminar* (OCE6934-644; 2 credits), USF College of Marine Science (*The Holocene*, Spring 2012; *Past Climate Sensitivity*, Fall 2016; *High Latitude Paleoceanography*: Spring 2017; *Cenozoic Climate Evolution*: Fall 2018).

Convener, Paleoceanography (OCE6934-644; 3 credits), USF College of Marine Science (Fall 2015)

Convener, Antarctic Research Methods* (OCE6934-644; 3 credits), USF College of Marine Science (Fall 2013, Spring 2014).

Instructor, *Stable Isotopes in Marine Science* (OCE6934-621; 3 credits; co-taught), USF College of Marine Science (Spring 2013).

Tutor, *GEOG1008 First year tutorial*, UCL Geography, annually: 2008-2009, 2009-2010, 2010-2011).

Convener and Lecturer, *GEOG1002: Environmental Systems and Processes*, UCL Geography (Fall 2008 (L), Fall 2009 (C), Fall 2010 (C)).

Instructor, *GEOG3007: Past Global Environmental Change*, UCL Geography/Earth Sciences (Spring 2008, Spring 2009, Spring 2010, Spring 2011).

Instructor, *GEOL3042: Geological and Environmental Mapping** (GEOL3042), UCL Earth Sciences (Summer/Fall 2008, Summer/Fall 2009; Summer/Fall 2010).

Convener, GG5291: Paleoclimate (Postgraduate), Royal Holloway University of London (RHUL)/UCL Quaternary Science MSc (Fall 2008, Fall 2009, Fall 2010).

Instructor, GG17: Paleoceanography (Postgraduate), UCL Earth Sciences MSc (Spring 2011).

Guest Lecturer, Oceanography 450, University of Washington (2006).

Teaching Assistant, Antarctica (GS10), UCSB (2001-2003).

Teaching Assistant, History of Life (GS 30), UCSB (1998).

Teaching Assistant, *Introduction to Oceanography** (GS 4), UCSB (1999-2000).

Teaching Assistant, Sedimentology and Stratigraphy* (GS 122), UCSB (1998).

FIELD EXPERIENCE

Lead Shipboard Sedimentologist, JOIDES Resolution, IODP Expedition 374 (Jan.-March, 2018)

• Leg Objectives: 1. Evaluate the contribution of West Antarctica to far-field ice volume and sea level estimates. 2. Reconstruct ice-proximal atmospheric and oceanic temperatures to identify past polar amplification and assess its forcings/ feedbacks. 3. Assess the role of oceanic forcing (e.g., sea level and temperature) on Antarctic Ice Sheet stability/instability. 4. Identify the sensitivity of the AIS to Earth's orbital configuration under a variety of climate boundary conditions. 5. Reconstruct eastern Ross Sea bathymetry to examine relationships between seafloor geometry, ice sheet stability/instability, and global climate.

PI/Watch Chief, *RVIB N.B. Palmer,* NSF ANT #1443837: Collaborative Research: Totten Glacier system and the Marine record of Cryosphere-Ocean Dynamics (January 21-March 18, 2014)

- Pls: A. Leventer, E. Domack, A. Orsi, B. Huber, S. Gulick, A. Shevenell, D. Blankenship
- Cruise Objective: To conduct a marine survey of the Totten Glacier region to evaluate the
 recent behavior of this system and its past response to climate and sea level. Re-shot seismic
 data critical to the successful scheduling of IODP Expedition 373: Antarctic Cenozoic
 Paleoenvironment (scheduled to sail in 2018).

Chief Scientist, RV L.M. Gould, NSF ANT #1443981 (October 27-November 18, 2013)

- PI: E.W. Domack, Hamilton College
- Cruise Objective: To collect marine sediments to improve understanding of the deglacial history of the western Antarctic Peninsula ice streams.

Co-Chief Scientist, RV L.M. Gould, NSF ANT #1443981 (October 9-30, 2012)

- PI: E.W. Domack, Hamilton College
- Cruise Objective: To obtain grounding line sediments and install/update GPS stations to understand the deglacial history and crustal rebound along the western Antarctic Peninsula.

Research Assistant, RV T. Thompson, Oregon Margin (Oct. 5-10, 2005)

- PI: H.P. Johnson, University of Washington
- Cruise Objective: Student teaching cruise to obtain sediment cores for Missoula Flood pilot study.

^{*}Involved field instruction

Research Assistant, RV/IB N.B. Palmer, Santa Barbara Basin (Nov. 6-10, 2002)

- PI: J.P. Kennett, University of California Santa Barbara
- Cruise Objective: An intermediate water transect of the Southern California Borderland.

Research Scientist, RV/IB N.B. Palmer, NSF OPP #9909367 (Jan.-Mar. 2001)

- PI: A. Leventer, Colgate University
- Cruise Objective: To obtain late Quaternary sediments from the remote East Antarctic margin.

Shipboard Sedimentologist, *JOIDES Resolution,* ODP Leg 189 (Mar.-May 2000)

• Leg Objective: To test the hypothesis that Cenozoic Antarctic cryospheric evolution resulted from isolation of Antarctica by the Antarctic Circumpolar Current.

Research Assistant RV L.M. Gould, US Antarctic Program, NSF OPP-RUI #9418153 (Feb.-Apr. 1998)

- PI: E.W. Domack, Hamilton College
- Cruise Objective: To obtain Holocene sedimentary records from the western Antarctic Peninsula to better understand the region's climate and oceanographic response to decadalmillennial scale climate perturbations.

Undergraduate Assistant, *RV/IB N.B. Palmer*, US Antarctic Program, NSF OPP-RUI #9418153 (Oct.-Dec. 1995)

- Pls: L. Lawver, University of Texas, G. Klinkhammer, Oregon State University
- *Cruise Objective:* Marine geophysical investigations of the neotectonic evolution of the Drake Passage region and geochemical investigations of the Bransfield Basin, Antarctic Peninsula.

INVITED TALKS/SEMINARS

(does not include IODP Distinguished Lecturer seminars)

1. Invited Conference Talks (since 2005)

- American Geophysical Union, AGU Fall Meeting (December, 2016)
- University of Washington, Program on Climate Change, Summer Institute, Friday Harbor Washington (September 2016).
- SCAR International Symposium on Antarctic Earth Sciences (July, 2015).
- 11th International Conference on Paleoceanography. Sitges, Spain (September, 2013).
- Invited talk by USF Ph.D. student C. Williams at the Comer Science Meeting (2013).
- XXXII SCAR Meetings and Open Science Conference, Portland, Oregon (July 2012).
- AGU Fall Meeting (2009).
- AGU Fall Meeting (2006).
- Northwest Geological Society, Keynote, Seattle (2006).

2. Invited Departmental Seminars (since 2005)

- University of Southern Mississippi, Department of Marine Science (2019)
- Louisiana State University, Department of Geology and Geophysics (2018)
- University of Washington, Earth and Space Sciences (2018)
- Northern Illinois University, Department of Geology and Environmental Geosciences (2017)
- University of Florida, Department of Geological Sciences (2015)
- Macalester College, Department of Geology (2014)
- University of Texas Austin, Institute for Geophysics (2014)
- British Antarctic Survey, Cambridge UK (2014).
- Weekly Science Talk, Palmer Station, Antarctica (2012)
- Old Dominion University, Center for Coastal Physical Oceanography (2012)
- University of South Carolina, Department of Earth and Ocean Sciences (2012)
- Peking University, School of Earth and Space Science, Beijing, China (2012)

- State Key Laboratory of Earthquake Dynamics, Institute of Geology, China Earthquake Administration, Beijing, China (2012)
- Tongji University, Department of Marine Geology, Shanghai, China (2012)
- University of South Florida, College of Marine Science (2011)
- University of Rochester, Department of Geological Sciences (2011; two talks)
- University of South Florida, College of Marine Science (2011)
- University of Florida, Department of Geological Sciences (2010)
- Cambridge University, Department of Earth Sciences (2009)
- University College London, Department of Earth Sciences (2008)
- University College London, Department of Geography (2007)
- University of Bristol, School of Earth Sciences (2007)
- Rice University, Department of Earth Sciences (2007)
- Indiana State University, Department of Environmental Sciences (2007)
- University of Michigan, Department of Earth and Environmental Sciences (2007)
- Hamilton College, Department of Geological Sciences (2006)
- San Jose State University, Geology Department (2006)
- Southern Illinois University, Department of Geology (2006)
- University of Washington, School of Oceanography (2005)

3. Invited Panelist

Polar Research in the #metoo Era: Gender Balance, Diversity, and Sexism in the Antarctic, 50th
 Anniversary of the first all-women research team in Antarctica, The Ohio State University, 1718 October (2019).

CONFERENCE ABSTRACTS (since 2008)

- *Vadman, K.J., Shevenell, A.E., Leventer, A., Gulick, S.P.S., Mawbey, E., Huber, B., Rosenheim, B.E. (2019) Deglacial to Holocene Circumpolar Deep Water influence over the Sabrina Coast continental shelf, East Antarctica. 13th International Conference on Paleoceanography, Sydney, Australia, 2-6 September.
- *Guitard, M., Shevenell, A.E., Hommeyer, M.H., Leventer, A., and P. Manley (2019).
 Holocene ocean thermal forcing of an East Antarctic outlet glacier: Geochemical and
 sedimentological evidence for ice-ocean interactions in Svenner Channel, Prydz Bay. 13th
 International Conference on Paleoceanography, Sydney, Australia, 2-6 September.
- *Browne, I., Shevenell, A.E., Dodd, J.P., Sangiorgi, F., McKay, R.M., De Santis, L., Kulhanek, D., and the Expedition 374 Science Party (2019). Antarctic Ice Sheet growth during the Miocene Climatic Optimum: An orbitally-resolved paleotemperature reconstruction from IODP Site U1521 in the Ross Sea. 13th International Conference on Paleoceanography (ICP13), Sydney, Australia, 2-6 September.
- Martinez-Mendez, G., Müller, J., and the IODP Expedition 374 Science Party (2019). Upper ocean temperatures and past (ice algae) productivity in the Ross Sea from MIS5 to the Holocene: Biomarker results from IODP Site U1524. International Union for Quaternary Research (INQUA), Dublin IR, 25-31 July.
- *Browne, I., **Shevenell, A.E.**, Dodd, J.P., Sangiorgi, F., McKay, R.M., De Santis, L., Kulhanek, D., and the Expedition 374 Science Party (2019). Antarctic Ice Sheet growth during the Miocene Climatic Optimum: An orbitally-resolved paleotemperature reconstruction from IODP Site U1521 in the Ross Sea. XIII International Symposium on Antarctic Earth Science (ISAES), Incheon, Republic of Korea, 22-26 July.
- Shevenell, A.E., Browne, I., Dodd, J.P., Sangiorgi, F., McKay, R.M., De Santis, L., Kulhanek,

- D., and the Expedition 374 Science Party (2019). Early to middle Miocene glacial and oceanographic conditions in the Ross Sea, Antarctica: Initial paleotemperature and geochemical results from IODP Site U1521. MioMeet 2019, Stockholm, Sweden, 3-5 June.
- *Ishino, S., Suto, I., McKay, R.M., De Santis, L., Kulhanek, D.K., and the IODP Expedition 374 Science Party (2019). Changes in composition of fossil diatoms from Ross Sea under gradual warming climate from MIS M2. Japan Geoscience Union Annual Meeting, Chiba, Japan, 26–30 May.
- *Duffy, M., Smith, C., Warny, S., **Shevenell, A.E.**, Gulick, S.P.S. and A. Leventer (2019) Vegetation prior to and during the development of the East Antarctic Ice Sheet: High-resolution palynological insights from Sabrina Coast, East Antarctica, AAGP ACE, San Antonio, TX, 19–22 May.
- Zurli, L., Perotti, M., Talarico, F.M., McKay, R.M., De Santis, L., Kulhanek, D.K. and the IODP Expedition 374 Scientists (2019). Petrography and provenance study of gravel size clasts from Miocene glacio-marine sequences in the IODP Expedition 374 Ross Sea drillcores (Antarctica): preliminary study. Vol. 21, EGU2019-13864, EGU, Vienna, Austria, 7–12 April.
- *McLaughlin, J.R., Kulhanek, D.K., Patterson, M.O., McKay, R.M., De Santis, L., and the IODP Expedition 374 Science Party (2019). Abstract 326834: A sedimentological and geochemical approach to elucidating Antarctic Ice Sheet extent in the late Miocene to Pliocene: Initial results from IODP Site 1522 on the Ross Sea continental shelf. Geological Society of America, Joint 53rd South-Central/53rd North-Central/71st Rocky Mtn Section Meeting, Manhattan, KS, 25-27 March.
- *Wubben, E., Sangiori, F., Hoem, F.S., Bijl, P., McKay, R.M., De Santis, L., Kulhanek, D.K., and the IODP Expedition 374 Scientists (2019). A palynological study of the upper ocean conditions during the Miocene Climatic Optimum in the Ross Sea (Antarctica): Results from the IODP Expedition 374 Site U1521 record. Dutch Earth Science Congress (NAC), 14-15 March.
- Sangiori, F., Wubben, E., Browne, I., Shevenell, A.E., Hoem, F.S., Bijl, P., McKay, R.M., De Santis, L., Kulhanek, D.K., and the IODP Expedition 374 Scientists (2019). Ocean properties and Antarctic cryosphere dynamics during the Miocene Climatic Optimum: Results from the IODP Expedition 374 (Ross Sea) in a circum-Antarctic context. Dutch Earth Science Congress (NAC), 14-15 March.
- van Peer, T.E., Sugisaki, S., Xuan, C., Bohaty, S.M., Wilson, P.A., McKay R.M., De Santis, L., Kulhanek, D.K., and the IODP Expedition 374 Science Party (2019). West Antarctic glacial-interglacial variability reconstructed from magnetic characteristics. Magnetic Interactions, Liverpool, UK, 3-4 January.
- McKay, R.M., DeSantis, L., Kulhanek, D.K., and the IODP Expedition 374 Science Party (2018). Ross Sea West Antarctic Ice Sheet History in the late Cenozoic: Initial sediment core results from IODP Expedition 374. Geosciences 2018, Wellington, NZ, 27-30 November.
- Shevenell, A.E., Browne, I.M., McKay, R.M., De Santis, L., Kulhanek, D.K. and the IODP Expedition 374 Science Party (2018). Early to middle Miocene oceanographic conditions in the Ross Sea, Antarctica: Initial XRF results from IODP Site U1521. 2018 AGU Fall Meeting, Washington DC, USA, 10-14 December.
- *Vadman, K.J., **Shevenell, A.E.,** Leventer, A., Gulick, S.P.S., Mawbey, E., Huber, B., and B.E. Rosenheim (2018). Deglacial to Holocene Circumpolar Deep Water influence over the Sabrina Coast continental shelf, East Antarctica. 2018 AGU Fall Meeting, Washington DC,

- USA, 10-14 December.
- *Browne, I.M., Shevenell, A.E., McKay, R.M., De Santis, L., and the IODP Expedition 374
 Science Party (2018). Antarctic ice sheet growth during the Miocene Climatic Optimum:
 paleotemperature insights from IODP Site U1521 on the Ross Sea shelf. 2018 AGU Fall
 Meeting, Washington DC, USA, 10-14 December.
- *King, T.M., Rosenheim, B.E., Shevenell, A.E., Ingalls, A.E., and L.T. Truxal (2018).
 Evaluating the timing of ice retreat during the Last Glacial Maximum: A comparison of bulk,
 Ramped PyrOx and compound specific diatom ¹⁴C chronologies. 2018 AGU Fall Meeting,
 Washington DC, USA, 10-14 December.
- *Prunella, C.J., Shevenell, A.E., McKay, R.M., De Santis, L., Kulhanek, D.K., and the IODP Expedition 374 Science Party (2018) Plio-Pleistocene ocean temperatures at the Ross Sea shelf break: Foraminifer-based paleotemperature records from IODP Site U1523. 2018 AGU Fall Meeting, Washington DC, USA, 10-14 December.
- *Browne, I.M., Shevenell, A.E., Schwing, P., Leventer, A., Duffy, M., and B.E. Rosenheim (2018). Modern oceanographic changes on the west Antarctic Peninsula anomalous within the context of latest Holocene climate variability. Graduate Climate Conference, Pack Forest, WA, 2-4 November.
- *Guitard, M. Shevenell, A.E., Leventer, A., Rosenheim, B.E., and Y. Yokoyama (2018).
 Millennial-scale variations of an East Antarctic outlet glacier during the last Glaciation.
 Graduate Climate Conference, Pack Forest, WA, 2-4 November.
- *Vadman, K.J., Shevenell, A.E., Leventer, A., Gulick, S.P.S., Mawbey, E., Huber, B., and B.E. Rosenheim (2018). Holocene variations in modified Circumpolar Deep Water presence near the Totten Glacier system, East Antarctica. Graduate Climate Conference, Pack Forest, WA, 2-4 November.
- Kim, S., McKay, R., DeSantis, L., Kulhanek, D. and the IODP Expedition 374 Science Party (2018). Deciphering Ross Sea West Antarctic Ice Sheet History: IODP Expedition 374. 24th International Symposium on Polar Sciences, Incheon, Korea, 15-16 May.
- Drury, A.J., Lee, G.P., Gray, W.R., Lyle, M., Westerhold, T., **Shevenell, A.E.**, and C. M. John (2018). Late Miocene-early Pliocene isotopic and trace element insights into the mean climate state of the equatorial Pacific. Forams 2018, Edinburgh, 17-22 June.
- *Sugisaki, S., Seki, O., Ishino, S., McKay, R., DeSantis, L., Kulhanek, D. and the IODP Expedition 374 Science Party (2018). Initial results of IODP Expedition 374: Ross Sea, West Antarctic Ice Sheet history in the Late Cenozoic. Japan Geoscience Union Meeting, Chiba, Japan, 20-24 May.
- DeSantis, L., McKay, R., Kulhanek, D., and the IODP Expedition 374 Science Party (2018). Invited: Late Cenozoic ocean-ice sheet interactions and West Antarctic Ice Sheet vulnerability: Initial results from International Ocean Discovery Program Expedition 374 in the Ross Sea continental margin. EGU 2018 General Assembly Meeting, Vienna, Austria, 8-11 April.
- *Gray, W.R., Taylor, B., Rae, J.W.B., Shevenell, A.E., Wills, R., Burke, A., Foster, G.L., Lear, C.H., and R. Rees-Owen (2018). Circulation, productivity, and CO₂ in the deglacial North Pacific. 2018 Ocean Sciences Meeting, Portland, OR, 11-16 February.
- Rosenheim, B.E., Subt, C., Shevenell, A.E., Guitard, M., Vadman, K., DeCesare, M.,

- Wellner, J., Bart, P., Lee, J.I., Domack, E.W., Yoo, K-C., and J.M. Hays (2017). Invited: Chronicling ice shelf history in the sediments left behind, 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 December.
- *Subt, C., Rosenheim, B.E., Lee, J.I., Yoo, K-C., Browne, I., and A.E. Shevenell (2017) Temperature under the Tongue: A paleotemperature record of the Drygalksi Ice Tongue with improved chronology of ice retreat2017 Fall Meeting, AGU, New Orleans, LA, 11-15 December.
- Shevenell, A.E., Gulick, S.P.S, Montelli, A., Fernandez, R., Smith, C., Warny, S., Bohaty, S., Sjunneskog, C., Leventer, A., Frederick, B., Blankenship, D., Bijl, P., and F. Sangiorgi (2017) Ice Proximal record of the East Antarctic Ice Sheet glacial history, Past Antarctic Ice Sheet Dynamics (PAIS) conference, Trieste Italy September 10-15, 2017.
- Mawby, E., Hendry, K., Smith, J., Hillenbrand, C-D., Graeves, M., Mackensen, A., Kuhn, G., Leng, M., Shevenell, A.E., and K. Vadman (2017) Reconstructing Circumpolar Deep Water: A new Mg/Ca temperature calibration for the benthic foraminifer Trifarina angulosa around Antarctica, Past Antarctic Ice Sheet Dynamics (PAIS) conference, Trieste Italy September 10-15, 2017.
- *Gray, W.R., Rae, J.W.B., Shevenell, A.E., Wills, R., Foster, G.L, Lear, C.H., Taylor, B. (2017) Circulation control on primary productivity and CO₂ in the subarctic Pacific over the last deglaciation: Evidence from boron isotopes in planktonic foraminifera, PAGES OSM: Global Challenges for our Common Future: a paleoscience perspective, Zargoza, Spain, May 9-13 2017.
- Shevenell, A.E., *Guitard, M.E., Leventer, A.R., Rosenheim, B.R., and Y. Yokoyama (2016)
 Millennial-scale variations of an East Antarctic outlet glacier during the last glaciation.
 Abstract PP11E-02 presented at 2016 Fall Meeting, AGU, San Francisco, CA, 12-16
 December.
- Shevenell, A.E., Gulick, S.P.S., Leventer, A.R., Domack, E.W., Smith, C., Warny, S., Sjunneskog, C., Bohaty, S., Fernandez, R., Fredrick, B., Montelli, S., Greenbaum, J., Blankenship, D., and A. Orsi (2016) Cenozoic glacial history of the Aurora Basin, East Antarctica: A potential IODP drilling opportunity on the Sabrina Coast Continental Shelf. 12th International Conference on Paleoceanography, Utrecht, Netherlands.
- *Browne, I., Shevenell, A.E., Schwing, P., Rosenheim, B.R., and A.R. Leventer (2016) Late Holocene ocean temperatures and hydrography of the western Antarctic Peninsula shelf. 12th International Conference on Paleoceanography, Utrecht, Netherlands.
- *Guitard, M.E., Shevenell, A.E., Leventer, A.R., Rosenheim, B.R., and Y. Yokoyama (2016)
 Millennial-scale variations of an East Antarctic outlet glacier during the last glaciation. 12th
 International Conference on Paleoceanography, Utrecht, Netherlands.
- *Vadman, K., Shevenell, A.E., Leventer, A.R., Domack, E.W., Gulick, S.P.S., Huber, B., Orsi, A., and B.R. Rosenheim (2016) Holocene variations in modified Circumpolar Deep water presence near the Totten Glacier. 12th International Conference on Paleoceanography, Utrecht, Netherlands.
- Williams, T., McKay, R., Gohl, K., Channell, J. E. T., De Santis, L., Larter, R. D., Kulhanek, D., Shevenell, A., Harwood, D. and Gulick, S. (2016) Antarctica's Cenozoic ice and climate history: new science and new challenges of drilling in Antarctic waters, 35th International Geological Congress, Cape Town, South Africa, 27 August 2016 4 September 2016.

- Post, A.L., Lavoie, C., Domack, E.W., Leventer, A., Shevenell, A.E., Fraser, A.D., and the NBP14-02 Science Team (2016) Habitat heterogeneity as a driver of benthic diversity on the Sabrina Coast continental shelf, East Antarctica, Antarctica in the Global Earth System: From the Poles to the Tropics, XXXIV SCAR Biennial Open Science Conference, Kuala Lumpur.
- *Smith, C., Domack E.W., Warny, S., Leventer, A., and A.E. Shevenell (2016) A new Paleogene section from East Antarctica. XXXIV SCAR Biennial Open Science Conference, Kuala Lumpur.
- *Subt, C., Domack, E.W., Yoo, K.C., Yoon, H.I., Lee, J.I., Wellner, J., Shevenell, A.E., Leventer, A.R., and B.E. Rosenheim (2016) Dating the undatable: Pushing ¹⁴C dating in marginal marine Antarctic sediments to new limits. XXXIV SCAR Biennial Open Science Conference, Kuala Lumpur.
- Domack, E.W., Shevenell, A.E., Smith, C., Rosenheim, B.R., Ishman, S., Leventer, A., Subt, C., Peck, D., Yoon, H. I., Yoo, K.C., Wellner, J., Song, J.B., Evans, J., and A. Christ (2016) A high-resolution record of trans-Antarctic Peninsula ice stream retreat and comparison of potential forcing mechanisms. XXXIV SCAR Biennial Open Science Conference, Kuala Lumpur.
- Rosenheim, B.E., Shevenell, A.E., Domack, E.W., and C. Subt (2016) Regional correlation of improved radiocarbon dating of laminated facies of Antarctic margin sediment from Hugo Island/Anvers Island Trough, Antarctic Peninsula, 2016 Ocean Sciences Meeting, Abstract #91181.
- Leventer, A., Domack, E., Duffy, M., Hynes, R., Smith, C., and A.E. Shevenell (2016) Abstract 37-2: Recent Paleoclimate record from the Palmer Deep, western Antarctica Peninsula, 51st Annual Meeting, Northeastern Section, Geological Society of America.
- Shevenell, A.E., Ishman, S.E., Domack, E.W., Leventer, A. Rosenheim, B.E., and K.J. Vadman (2015) A complex deglacial retreat history of the Anvers Island Trough paleo-ice stream, EOS Trans. AGU, 96, Fall Meet. Suppl., Abstract PP51B-2284.
- *Vadman, K., Shevenell, A.E., Leventer, A., Domack, E.W., Huber, B., Orsi, A., Gulick, S. (2015) Foraminifer- and diatom-based paleoceanographic study of Holocene sediments from the Sabrina Coast, East Antarctica. EOS Trans. AGU, 96, Fall Meet. Suppl., Abstract PP51B-2286.
- Rosenheim, B.E., Domack, E.W., Shevenell, A.E., and C. Subt (2015) Time matters: Increasing the efficiency of Antarctic marine geology and paleoceanography expeditions by providing improved sediment chronology. EOS Trans. AGU, 96, Fall Meet. Suppl., Abstract PA33C-2199.
- *Montelli, A., Gulick, S.P.S., Shevenell, A.E., Frederick, B., Blankenship, D., Leventer, A., and E.W. Domack (2015) Seismic stratigraphy of the Sabrina Coast shelf, East Antarctica: History of late Paleogene to early Neogene glacial evolution, EOS Trans, AGU, 96, Fall Meet. Suppl., Abstract PP43C-2292.
- Shevenell, A.E., Guitard, M., Domack, E.W., and B.E. Rosenheim (2015) Vulnerability of the Lambert Glacier-Amery Ice Shelf system during deglaciation, SCAR ISAES 2015, Goa, India.
- *Guitard, M., Shevenell, A.E., Domack, E.W., Rosenheim, B.E., and Y. Yokoyama (2015) Late Quaternary variability of an East Antarctic outlet glacier: Insights from sedimentary beryllium-10 in Prydz Channel, SCAR ISAES 2015, Goa, India.

- *Montelli, A. I., Gulick, S.P.S., Frederick, B., Blankenship, D., Leventer, A., **Shevenell, A.E.**, and Domack, E. (2015) Seismic stratigraphy of the Sabrina Coast shelf, East Antarctica: History of Paleogene to early Neogene glacial evolution. SCAR ISAES 2015, Goa, India.
- Gulick, S.P.S., Montelli, A., Shevenell, A., Domack, E., Frederick, B., Leventer, A., Blankenship, D., and R. Fernandez (2015) Insights into changing East Antarctic paleoenvironments since the Eocene based on first-ever seismic imaging and coring on the Sabrina Coast shelf. SCAR ISAES 2015, Goa, India.
- Fernandez, R., Gulick, S., Saustrup, S., Frederick, B., Domack, E., Lavoie, C., Leventer, Shevenell, A., Blankenship, D.D., and the NBP1402 Science Party (2015) Did the geomorphic and sedimentary record off the Sabrina Coast, East Antarctica, originate as result of past subglacial water outbursts and ice sheet collapse? SCAR ISAES 2015, Goa, India.
- Ishman, S., **Shevenell, A.,** Domack, E., Leventer, A., Rosenheim, B., Vadman, K., and M. Prentice (2015) Abstract #265389: Using microfossil and biogeochemical data to resolve the deglacial history of the Anvers Island Trough, West Antarctic Peninsula margin. Geological Society of America 2015 Annual Meeting, Baltimore, Maryland.
- *Smith, C., Domack, E., Shevenell, A.E., Leventer, A., Gulick, S.P.S., Frederick, B., and R. Fernandez (2015) Abstract #267590: A new Eocene Sedimentary sequence from Antarctica and its palynologic character. Geological Society of America 2015 Annual Meeting, Baltimore, Maryland.
- *Peck, D.A., Domack, E.W., Rosenheim, B.E., Leventer, A., and A.E. Shevenell (2015)
 Abstract #266309: Evidence for extensive volcanism during deglaciation of the Hugo-Anvers
 Island Trough. Geological Society of America 2015 Annual Meeting, Baltimore, Maryland.
- *Guitard, M.E., Shevenell, A.E., Domack, E.W., Rosenheim, B.E., and Y. Yokoyama (2014)
 Late Quaternary advance and retreat of an East Antarctic Ice Shelf System: Insights from
 sedimentary beryllium-10 concentrations, EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract
 PP21A-1309.
- *Snow, T., Shevenell, A.E., Leventer, A., Domack, E.W., Huber, B.A., Orsi, A.H., Blankenship, D.D., Gulick, S.P.S, Lavoie, C., and the NBP14-02 Scientific Party (2014) NBP14-02: The Sabrina Coast Marine Record of Ocean-Cryosphere Dynamics. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP21A-1312.
- Fernandez-Vasquez, R.A., Domack, E.W., Lavoie, C., Gulick, S.P.S., Saustrup, S., Frederick, B., Leventer, A., Shevenell, A.E., Blankenship, D.D. and the NBP14-02 Scientific Party (2014) The geomorphic and sedimentary record of past subglacial water outbursts, Sabrina Coast, East Antarctica. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP21A-1313.
- *Frederick, B.C., Gulick, S.P.S., Saustrup, S., Fernandez-Vasquez, R.A., Domack, E.W., Lavoie, C., Blankenship, D.D., Leventer, A., Shevenell A.E., and the NBP14-02 Scientific Party (2014) Seismic stratigraphy of ice sheet advance-retreat cycles on the Sabrina Coast continental shelf, East Antarctica. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP21A-1314.
- Leventer, A., Armand, L., Redovian, M., Domack, E.W., Shevenell, A.E., Smith, C., Lavoie, C., Orsi, A.H., Huber, B.A., Gulick, S.P.S., Fernandez-Vasquez, R.A., and the NBP14-02 Scientific Party (2014) Holocene sedimentary record of unusual primary productivity, Dalton Polynya, Sabrina Coast, East Antarctica. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP21A-1315.

- Shevenell, A.E., Snow, T., Domack, E.W., Leventer, A., Gulick, S.P.S., Huber, B.A., Orsi, A.H., Goddard, E., Fernandez-Vasquez, R.A., and the NBP14-02 Science Party (2014) High-resolution Deglacial to Holocene paleoceanographic records from the Sabrina Coast, East Antarctica: Preliminary foraminifer-based results from NBP14-02. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP21A-1316.
- *Gray, W.R., Rae, J.W.B., **Shevenell**, **A.E.**, Lear, C.H., Foster, G.L., Wilson, K.E., and M. Sarnthein (2014) Release of CO₂ from the subarctic Pacific Ocean over the last deglaciation. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP23A-1384.
- Orsi, A.H., Zielinski, N.J., Durkin IV, W.J. Clark, P., Wiederwohl, C.L., Rosenberg, M.A., Huber, B.A., Gwyther, D., Greenbaum, J.S., Lavoie, C., Shevenell, A., Leventer, A., Blankenship, D.D., Gulick, S.P.S., Domack, E.W., and the NBP14-02 Scientific Party (2014) On the revealing firsthand probing of ocean-ice-atmosphere interactions off Sabrina Coast During NBP14-02 (Invited). EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP24A-02.
- Gulick, S.P.S., Fernandez-Vasquez, R.A., Frederick, B., Saustrup, S., Domack, E.W., Lavoie, C., Shevenell, A.E., Blankenship, D.D., Leventer, A., and the NBP14-02 Scientific Party (2014) Environmental and ice volume changes based on seismic stratigraphy in Sabrina Coast, East Antarctica: Preliminary results from NBP14-02. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP24A-03.
- Domack, E.W., Gulick, S.P.S., Fernandez-Vasquez, R.A., Frederick, B., Lavoie, C., Leventer, A., Shevenell, A., Saustrup, S., Bohaty, S.M., Sangiorgi, F., and the NBP14-02 Scientific Party (2014) Pre-glacial, early glacial, and ice sheet stratigraphy cored during NBP14-02, Sabrina Coast, East Antarctic margin. EOS Trans. AGU, 95, Fall Meet. Suppl., Abstract PP24A-04.
- Leventer, A., Domack, E.W., and A.E. Shevenell (2014) 163-5: Antarctic Peninsula fjord glacial margins during the middle Holocene, and circum-Antarctic connections. Geological Society of America, Abstracts with Programs, 46(6), 412.
- *Weisman, I., Domack, E.W., Shevenell, A.E., and A. Leventer (2014) 126-3: Sediment record demonstrates dynamics of deglactiation of Hugo Island Trough: A test of the calving bay reentrant. Geological Society of America, Abstracts with Programs, 46(6), 318.
- *Smith, C., Domack, E.W., Shevenell, A.E., Rosenheim, B., Yoo, K-C., and C. Lavoie (2014) 163-6: The last stand of the Gerlache-Boyd paleo-ice stream and a mega fjord. Geological Society of America, Abstracts with Programs, 46(6), 412.
- *Guitard, M., Shevenell, A.E., and Y. Yokoyama (2014) Fluctuations of an East Antarctic Ice Shelf system through the past 125,000 years: Insights from beryllium-10. Abstract: JSPS ID SP14025. NSF EAPSI Program, Sokendai, Japan.
- *Herold, N., **Shevenell, A.E.**, Huber, M. and D. Müller (2013) Clear as mud: Middle Miocene Atlantic Ocean circulation. EOS Trans. AGU, 94, Fall Meet. Suppl. Abstract PP43A-2070.
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