

CURRICULUM VITAE (12/18/2017)

Ingrid L. Hendy
Department of Earth and Environmental Sciences
University of Michigan

1100 North University Ave
Ann Arbor, M.I., 48109-1063
Phone: (734) 615 6892
Fax: (734) 763.4690

Education:

2000	PhD	Geological Sciences	University of California, Santa Barbara Supervisor: Prof. James Kennett
1995	MSc	Earth Science	University of Waikato, New Zealand Supervisors: Profs. Cam Nelson and Christie Hendy
1992	BSc	Earth Science & Geography	University of Waikato, New Zealand

Academic Appointments:

2017 - present	Full Professor, Department of Earth and Environmental Sciences, University of Michigan
2010 - 2017	Associate Professor, Department of Earth and Environmental Sciences, University of Michigan
2002 - 2010	Assistant Professor, Department of Geological Sciences, University of Michigan
2000 - 2002	Post-doctoral Fellow, Department of Earth and Ocean Sciences, University of British Columbia, Canada sponsored by Thomas Pedersen
1995	Assistant Lecturer in Earth Science at the Waikato Polytechnic, New Zealand

Awards and Honors

2010	<i>Marie Tharp Visiting Fellowship</i> ; 3 month visiting fellowship at Columbia University.
2001	<i>Doris Curtis Outstanding Woman in Science Award</i> ; (Geological Society of America) for a woman who impacted the geosciences field in a major way based on their PhD research (inaugural recipient).
2000	<i>Peter Wall Institute of Advanced Studies Junior Visiting Scholar</i> , University of British Columbia, Vancouver, Canada
1999	<i>Woodring Memorial Graduate Fellowship</i> (University of California Santa Barbara, Department of Geological Sciences) for a graduate student working on a thesis proposal of highest merit and capable of seeing it to an early and distinguished conclusion.
1998	<i>Outstanding Student Paper</i> ; International Conference for Paleoceanography, Lisbon VI, Portugal.

- 1996 *Outstanding Student Paper (Ocean Sciences)*; Fall American Geophysical Union, San Francisco, USA
- 1995 *NSF Graduate Fellowship* awarded for 5 years of graduate study in Coastal Ocean Processes at University of California Santa Barbara.

Publications: (* indicates supervised students)

In Prep:

- Shevenell, A. E., Wilson, K.E., Guilderson, T.P., Gray, W.R., Hendy, I.L., in prep, The ventilation history of the Northeast Pacific Ocean during the last deglaciation, *Quaternary Science Reviews*.
- Hendy, I.L., Taylor, M.A., Gombiner, J., Hemming, S., Bryce, J., Chang, A., in prep. 'Cordilleran Ice Sheet meltwater delivery to the northeast Pacific Ocean: From stratification to destabilization' *Paleoceanography*.
- Hendy, I.L., Gombiner, J., Hemming, S., Bryce, J., Chang, A., in prep. 'Changing sources of glaciomarine sediment during the Fraser Glaciation of the Cordilleran Ice Sheet.' *Marine Geology*.
- Hendy, I.L., Schimmelmann, A.S., Pak, D.K., and Heusser, L.E., in review 'The return of the North Pacific Atmospheric Rivers during the Little Ice Age'. *GRL*.
- *Taylor, M.A., Hendy, I.H., Aciego, S.M., Gabrielli, P., Beaudon, E., Sierra, R., Schneider, A., Flanner, M.G. Isotopic and REE tracing of sediments in shallow shelf regions of Arctic sea ice, in prep.
- *Taylor, M.A., I.L. Hendy, S.M. Aciego, A. Schneider, M.G. Flanner, P. Gabrielli, B. Delmonte, E. Beaudon, R. Sierra, K. Meyer, in prep for resubmission. 'High concentrations of potentially bioavailable iron on Arctic sea ice particles'.
- Latimer, J. Fillipelli, G., Hendy I.L., in review. Southern Ocean Export Production over the Last 1 Ma, *Marine Geology Reviews*.
- *Napier, T.J., Hendy, I.L., submitted Identification of onshore sources of Santa Barbara Basin flood deposits and glacial sediments, *GSA Bulletin*.
- * Wang, Y. Ingrid L. Hendy, Jennifer C. Latimer, and Dario Bilardello, in prep, Diagenesis and iron paleo-redox proxies: new perspectives from magnetic and iron speciation analyses in the Santa Barbara Basin, *GCA*

Submitted:

- *Tessin, A., Schroder-Adams, C., Elderbak, K., Sheldon, N., Hendy, I., submitted, 'Local versus seaway-wide trends in deoxygenation in the Late Cretaceous Western Interior Seaway' *GSA Bulletin*
- *Napier, T.J., Hendy, I.L., Hinnov, L., Brown, E.T., Shevenell, A.E., submitted 'Subtropical hydroclimate during Termination V (~430-422 ka): Annual records of extreme precipitation, drought, and interannual variability from Santa Barbara Basin', *Quaternary Science Reviews*

Published:

52. *Du, X, Hendy, I.L., Schimmelmann, A., 2018, 'A 9000-year flood history for Southern California: A revised stratigraphy of varved sediments in Santa Barbara Basin' *Marine Geology*, Vol. 397, 129-42 ([DOI: 10.1016/j.margeo.2017.11.014](https://doi.org/10.1016/j.margeo.2017.11.014))
51. *Wang, Y, Hendy, I.L. in press, 'Climate and anthropogenic controls of coastal

- deoxygenation on interannual to centennial timescales', *Geophysical Research Letters*,
50. *Tessin, A., Bianchi, T. Sheldon, N., Hendy, I. Hutchings, J., Arnold, E. 2017, Organic matter source and thermal maturity within the Late Cretaceous Niobrara Formation, US Western Interior, *Marine and Petroleum Geology*, vol 86, 812-822, (<https://doi.org/10.1016/j.marpetgeo.2017.06.041>).
 49. *Taylor, M.A., Hendy, I.H., Chappaz, A. 2017, 'Assessing the causes for oxygen depletion in the Northeastern Pacific Ocean during the last deglaciation using I/Ca ratios from multiple benthic foraminiferal species', *Paleoceanography*. ([10.1002/2016PA003062](https://doi.org/10.1002/2016PA003062)), Volume 32, Issue 8, Pages 746-762
 48. *Wagner, M. and I.L. Hendy, 2017 'Trace Metal Evidence for a Poorly Ventilated Glacial Southern Ocean.' *Quaternary Science Reviews* vol. 170, 109-120 (<https://doi.org/10.1016/j.quascirev.2017.06.014>).
 47. McClatchie, S., Thompson, A. R., Hendy, I.L., and Watson, W., 2017, 'Forage fish collapses and average return times from the paleoceanographic record' *Geophysical Research Letters*, vol. 44, issue 4, 1877-1885 ([10.1002/2016GL071751](https://doi.org/10.1002/2016GL071751)).
 46. *Napier, T.J. and I.L. Hendy, in press 'The impact of historic precipitation events and dam construction on terrigenous detrital sediment composition in a 250-year Santa Barbara Basin record off Southern California'. *Quaternary International* ([10.1016/j.quaint.2016.07.045](https://doi.org/10.1016/j.quaint.2016.07.045))
 45. Pak, D.K., Hendy, I.L., Weaver, J., Schimmelmann, A. and Clayman, L., in press, 'Foraminiferal proxy response to ocean temperature variability and acidification over the last 150 years in the Santa Barbara Basin (California), *Quaternary International* ([10.1016/j.quaint.2016.07.049](https://doi.org/10.1016/j.quaint.2016.07.049)).
 44. Hendy, I.L., Minckley, T., and C. Whitlock, 2016. 'Eastern Tropical Pacific vegetation response to rapid climate change and sea level rise: A new pollen record from the Gulf of Tehuantepec, southern Mexico'. *Quaternary Science Reviews*. Vol. 145, 1, pp. 152-160 ([10.1016/j.quascirev.2016.05.039](https://doi.org/10.1016/j.quascirev.2016.05.039))
 43. *Tessin, A., Sheldon, N., Hendy, I.L., and A. Chappaz, 2016, 'Iron limitation in the Western Interior Seaway during the Late Cretaceous OAE 3 and its role in phosphorus recycling and enhancing organic matter preservation.' *Earth and Planetary Science Letters*. Vol.449, 1, pp.135-144 ([10.1016/j.epsl.2016.05.043](https://doi.org/10.1016/j.epsl.2016.05.043))
 42. Gombiner, J., Hemming, S., Hendy, I.L., Bryce, J., and J. Blichert-Toft, 2016 'Isotopic and elemental evidence for Scabland Flood sediments offshore Vancouver Island.' *Quaternary Science Reviews* vol. 139, pp.129-137 ([10.1016/j.quascirev.2016.02.026](https://doi.org/10.1016/j.quascirev.2016.02.026)).
 41. *Wagner, M., Hendy, I. L., McKay, J. L., and T. F. Pedersen, 2015, 'Redox Chemistry of West Antarctic Peninsula Surface Sediments' *Chemical Geology*, vol. 417, pp. 102-114 ([10.1016/j.chemgeo.2015.10.002](https://doi.org/10.1016/j.chemgeo.2015.10.002)).
 40. *Taylor, M.A., I.L. Hendy, and D. K. Pak, 2015, 'The California Current System as a transmitter of millennial scale climate change on the Northeastern Pacific margin from 10-50 ka'. *Paleoceanography*, vol. 30 (9), pp. 1168-1182 ([10.1002/2014PA002738](https://doi.org/10.1002/2014PA002738)).
 39. *Skrivanek A. and I.L. Hendy, 2015 'A 500 year climate catch: Pelagic fish scales and paleoproductivity in the Santa Barbara Basin from the Medieval Climate Anomaly to the Little Ice Age (AD 1000 – 1500)'. *Quaternary International*, Vol. 387, pp. 36-45 ([10.1016/j.quaint.2015.07.044](https://doi.org/10.1016/j.quaint.2015.07.044)).

38. *Tessin, A., Hendy, I.L., and Sheldon, N., 2015. 'Isotopic and trace metal evidence for the regional expression of "OAE 3" in the Western Interior Seaway', *Paleoceanography* 30, (6), 702-717 ([10.1002/2014PA002729](https://doi.org/10.1002/2014PA002729)).
37. Hendy, I.L., Napier, T. J. and A. Schimmelmanna, 2015. 'From extreme rainfall to drought: 250 years of annual resolved sediment deposition in Santa Barbara Basin.' *Quaternary International*, vol 387, pp. 3-12 ([10.1016/j.quaint.2015.01.026](https://doi.org/10.1016/j.quaint.2015.01.026))
36. Hendy, I. L. 2015 'Ironing out carbon export to the deep ocean' *Proceedings of the National Academy of Sciences*. vol. 112 no. 2, 306-307, ([10.1073/pnas.1421561112](https://doi.org/10.1073/pnas.1421561112))
35. Heusser, L.E., Hendy, I.L. and J. A. Barron, 2015, 'Vegetation Response to southern California drought during the Medieval Climate Anomaly and early part of the Little Ice Age (~AD 800-1600)'. *Quaternary International* vol. 387, pp. 23-35, 1-13 ([10.1016/j.quaint.2014.09.032](https://doi.org/10.1016/j.quaint.2014.09.032))
34. Barron, J.A., Bukry, D., and I.L. Hendy, 2015. 'High-resolution paleoclimatology of the Santa Barbara Basin during the Medieval Climate Anomaly and early Little Ice Age based on diatom and silicoflagellate assemblages in Kasten core SPR0901-02KC' *Quaternary International* vol. 387, pp. 13-22, 1-10. ([10.1016/j.quaint.2014.04.020](https://doi.org/10.1016/j.quaint.2014.04.020))
33. Chang, A.S., Pedersen, T.F., and I.L. Hendy, (2014). 'Effects of productivity, glaciation, and ventilation on late Quaternary sedimentary redox and trace element accumulation on the Vancouver Island margin, western Canada.' *Paleoceanography* 29(7):730-746 ([10.1002/2013PA002581](https://doi.org/10.1002/2013PA002581))
32. *Taylor, M.A., Hendy, I.L., and D.K. Pak, (2014). 'Deglacial ocean warming and marine margin retreat of the Cordilleran Ice Sheet in the North Pacific Ocean.' *Earth and Planetary Science Letters* 403(0): 89-98. ([10.1016/j.epsl.2014.06.026](https://doi.org/10.1016/j.epsl.2014.06.026))
31. *Wagner, M., Hendy, I. L., McKay, J. L. and T. F. Pedersen, 2013 'Influence of biological productivity on silver and redox-sensitive trace metal accumulation in Southern Ocean surface sediments, Pacific sector' *Earth and Planetary Science Letters*, 380, pp. 31-40 ([10.1016/j.epsl.2013.08.020](https://doi.org/10.1016/j.epsl.2013.08.020))
30. Schimmelmanna, A., Hendy, I.L., Dunn, L., Pak, D.K. and C.B. Lange, 2013. Revised ~2,000-year chronostratigraphy of partially varved marine sediment in Santa Barbara Basin, California. *GFF, special issue "Latest developments in the sedimentology and genesis of varved sediment and their use in chronologic and paleoclimatic studies of the Late Glacial, Holocene"* GFF 135 (3-4), pp. 258-264 ([10.1080/11035897.2013.773066](https://doi.org/10.1080/11035897.2013.773066))
29. Hendy, I.L., Dunn, L., Schimmelmanna, A., and D.K., Pak, 2013 'Resolving varve and radiocarbon and chronology differences in the last 2,000 years for Santa Barbara Basin sedimentary record, California.' *Quaternary International*, PACLIM proceedings, p. 1-14 ([10.1016/j.quaint.2012.09.006](https://doi.org/10.1016/j.quaint.2012.09.006))
28. *Knudson, K.P., I.L. Hendy, and H.L., Neil, 2011, 'Re-examining Southern Hemisphere westerly wind behavior: Insights from a late Holocene precipitation reconstructions using New Zealand fjord sediments', *Quaternary Science Reviews*, 30 (21-22), p. 3124-3138 ([10.1016/j.quascirev.2011.07.017](https://doi.org/10.1016/j.quascirev.2011.07.017))
27. Hendy, I.L., 2010, 'Diagenetic behavior of barite in a coastal upwelling setting' *Paleoceanography*, v. 25, p. 9 ([10.1029/2009PA001890](https://doi.org/10.1029/2009PA001890) [PA4103](https://doi.org/10.1029/2009PA001890))
26. Hendy, I.L., 2010, 'The paleoclimatic response of the Southern Californian Margin to the rapid climate change of the last 60 Ka: A regional overview.' *Quaternary*

- International* (23rd Pacific Climate Workshop - PACLIM), 215(1-2), 62-73
([10.1016/j.quaint.2009.06.009](https://doi.org/10.1016/j.quaint.2009.06.009))
25. *Waddell, L.M., Hendy, I.L., Moore, T.C. and M.W. Lyle, 2009, 'Ventilation of the abyssal Southern Ocean during the Late Neogene: A new perspective from the subantarctic Pacific.' *Paleoceanography*. 24, pp.15 ([10.1029/2008pa001661](https://doi.org/10.1029/2008pa001661) PA3206)
 24. *Knudson, K.P. and I.L. Hendy, 2009 'Climatic influences on sediment deposition and turbidite frequency in the Nitinat Fan, British Columbia ', *Marine Geology*. 262 (1-4): 29-38. ([10.1016/j.margeo.2009.03.002](https://doi.org/10.1016/j.margeo.2009.03.002))
 23. Hendy, I.L., 2009, 'A fresh perspective on the Cordilleran Ice Sheet'. *Geology*, 37 (1), p.95-96 ([10.1130/focus012009.1](https://doi.org/10.1130/focus012009.1))
 22. Chang, A.S., T.F. Pedersen, and I.L. Hendy, 2008, 'Late Quaternary paleoproductivity history on the Vancouver Island Margin, Western Canada: Evidence from a Multiproxy Geochemical Approach' *Canadian Journal of Earth Science* (2007 Polar Climate Stability Network Proceedings) 45, p.1283-1297 ([10.1139/E08-038](https://doi.org/10.1139/E08-038)).
 21. Kennett, D.J., Kennett, J. P., West, G. J., Erlandson, J. M., Johnson, J. R., Hendy, I.L., West, A., Culleton, B. J., Jones, T. L., and Thomas W. Stafford, Jr., 2008, - 'Wildfire and Abrupt Ecosystem Disruption on California's Northern Channel Islands at the Allerød-Younger Dryas Boundary (13.0-12.9 ka)': *Quaternary Science Reviews*, 27, p.2530-2545. ([10.1016/j.quascirev.2008.09.0060](https://doi.org/10.1016/j.quascirev.2008.09.0060))
 20. *Cosma, T.N, and I.L., Hendy, 2008. 'Pleistocene glacial marine sedimentation on the continental slope off Vancouver Island, British Columbia.' *Marine Geology* 255, p.45-54 ([10.1016/j.margeo.2008.07.001](https://doi.org/10.1016/j.margeo.2008.07.001))
 19. Hendy, I.L., and Cosma, T.N, 2008. 'Vulnerability of the Cordilleran Ice Sheet to iceberg calving during late Quaternary rapid climate change events'. *Paleoceanography*, 23(2): A2101 (8 p.) ([10.1029/2008PA001606](https://doi.org/10.1029/2008PA001606))
 18. *Cosma, T.N, Hendy, I.L., and A., Chang, 2008. 'Chronological constraints on Cordilleran Ice Sheet glaciomarine sedimentation from core MD02-2496 off Vancouver Island (western Canada).' *Quaternary Science Reviews*, 27(9-10): p.941-955, ([10.1016/j.quascirev.2008.01.013](https://doi.org/10.1016/j.quascirev.2008.01.013)).
 17. *Fisler, J., and I.L., Hendy, 2008. 'California Current System response to late Holocene climate cooling in southern California.' *Geophysical Research Letters*, 35(9), L09702 (4 p.) ([10.1029/2008GL033902](https://doi.org/10.1029/2008GL033902)).
 16. Hendy I.L. and T.F. Pedersen, 2006. 'Oxygen Minimum Zone Expansion in the Eastern Tropical North Pacific during Deglaciation', *Geophysical Research Letters*, 33, L20602 (4 p.), ([10.1029/2006GL025975](https://doi.org/10.1029/2006GL025975))
 15. Rea, D.K., Mitchell W.L., Liberty M.L., Hovan, S.A., Bolyn M.A., Gleason, J.D., Hendy, I.L., Latimer J., Murphy, B.M., Owen, R.M., Paul, C.F., Rea, T.H.C., Stancin, A.M., and D.J. Thomas, 2006. 'Broad region of no sediment in the Southwest Pacific Basin', *Geology*, 34(10), p. 873-876. ([10.1130/G22864.1](https://doi.org/10.1130/G22864.1))
 14. Latimer J., G.F. Filippelli, D.R. Newark, and I.L. Hendy, 2006. 'Opal-associated Phosphorus: Implications for the Marine Phosphorus Cycle' *Geochimica et Cosmochimica Acta*, 34(7), p. 3843-3854. ([10.1016/j.gca.2006.04.033](https://doi.org/10.1016/j.gca.2006.04.033))
 13. Latimer J., G.F. Filippelli, I.L. Hendy, and J. Gleason, 2006. 'Glacial-Interglacial Terrigenous Provenance in the Southeastern Atlantic Ocean: The importance of deep water sources and surface currents' *Geology*, 34, (7) 545-548. ([10.1130/G22252.1](https://doi.org/10.1130/G22252.1))

12. Hendy, I. L., and T. Pedersen, 2005. 'Is pore water oxygen content decoupled from productivity on the California Margin? Trace element results from Ocean Drilling Program Hole 1017E, San Lucia slope, California' *Paleoceanography*, 20, PA4026 pp. 12 ([10.1029/2004PA001123](https://doi.org/10.1029/2004PA001123))
11. Hendy, I.L., T.F. Pedersen, J.P. Kennett, and R. Tada, 2004. 'Intermittent existence of a southern Californian upwelling cell during submillennial climate change of the last 60 kyr', *Paleoceanography*, 19(3) pp.15 ([10.1029/2003PA000965](https://doi.org/10.1029/2003PA000965))
10. Kienast, S.S., I.L. Hendy, J. Crusius, T.F. Pedersen, and S.E. Calvert, 2004. 'Export production in the subarctic North Pacific over the last 800 kyrs: No evidence for iron fertilization?' *Journal of Oceanography*, 60(1), p. 189-203 ([10.1023/B:JOCE.0000038326.73943.aa](https://doi.org/10.1023/B:JOCE.0000038326.73943.aa))
9. Hendy, I. L., and J. P. Kennett, 2003. 'Tropical forcing of North Pacific Intermediate Water during late Quaternary climate change', *Quaternary Science Reviews*, 22(5-7), p. 673-689 ([10.1016/S0277-3791\(02\)00186-5](https://doi.org/10.1016/S0277-3791(02)00186-5))
8. Hendy I., J. Kennett, E.B. Roark, and L. Ingram, 2002. 'Apparent Synchronicity of Submillennial Scale Climate Events between Greenland and Santa Barbara Basin.' *Quaternary Science Reviews* 21(10), p. 1167-1184. ([10.1016/S0277-3791\(01\)00138-X](https://doi.org/10.1016/S0277-3791(01)00138-X))
7. Heider F., J. Bock, I. Hendy, J. Kennett, J. Matzka and J. Schneider, 2001. 'A latest Quaternary rock Magnetic record of climatic and oceanic change: Tanner Basin, California Borderland.' *Geological Society of America Bulletin*, 113(3): p. 346-359. ([10.1130/0016-7606\(2001\)113/346](https://doi.org/10.1130/0016-7606(2001)113/346))
6. Sarnthein M., J.P. Kennett, J. Chappell, T. Crowley, W. Curry, J. C. Duplessy, P. Grootes, I. Hendy, C. Laj, J. Negendank, M. Schulz, N.J. Shackleton, A. Voelker, B. Zolitschka and further workshop participants, 2000, Exploring Late Pleistocene Climate Variations, *Eos*, 85 (51), p. 629-630. ([10.1029/EO081i051p00625-01](https://doi.org/10.1029/EO081i051p00625-01))
5. Hendy I.L. and J. Kennett, 2000. 'Dansgaard/Oeschger cycles and the California Current System; Planktonic foraminiferal response.' *Paleoceanography*. 15(1): p. 30-42. ([10.1029/1999PA000413](https://doi.org/10.1029/1999PA000413))
4. Kennett J., Cannariato, K., Hendy I.L. and R. Behl, 2000. 'Carbon evidence for methane hydrate instability during late Quaternary interstadials, Santa Barbara Basin.' *Science*. 288(5463): p. 128-133. ([10.1126/science.288.5463.128](https://doi.org/10.1126/science.288.5463.128))
3. Hendy I.L. and J. Kennett, 2000, Stable isotope stratigraphy and paleoceanography of the last 170 Ka: ODP Site 1014, Tanner Basin, California. *Ocean Drilling Program Scientific Reports*, Volume 167: p. 129-140.
2. Nelson, C.S., Hendy, I.L., Neil, H.L., Hendy, C.H. and P.E., Weaver, 2000. 'Last glacial jetting of cold waters through the Subtropical Convergence zone in the Southwest Pacific off eastern New Zealand, and some geological implications.' *Palaeogeography Palaeoclimatology Palaeoecology*. 156(1-2): p. 103-121. ([10.1016/S0031-0182\(99\)00134-0](https://doi.org/10.1016/S0031-0182(99)00134-0))
1. Hendy I.L. and J. Kennett, 1999. 'Latest Quaternary North Pacific surface water responses imply atmospherically-driven climate instability.' *Geology*. 27(4): p. 291-294. ([10.1130/0091-7613\(1999\)027/0291](https://doi.org/10.1130/0091-7613(1999)027/0291))

Books:

Kennett, J.P., K.G. Cannariato, I.L. Hendy, and R. Behl, 2002, *The Role of Methane Hydrates in Late Quaternary Climatic Change: The Clathrate Gun Hypothesis*, American Geophysical Union Special Publication 54: 216pp.

Funding:

External Research Proposals and Grants (Sole PI unless otherwise indicated):

- 2017 Pending: *Climate-driven oxygen concentrations in Southern Hemisphere deep and intermediate water masses and their relationship to overturning circulation*. Division of Ocean Sciences, Marine Geology and Geophysics, NSF sole PI Total \$578,239.
- 2013 Funded '*Upgrade of community-orientated ICP-MS facilities for teaching and research at the University of Michigan*' Division of Earth Sciences – Instrumentation and facilities, NSF, Lead-PI with Sarah Aceigo, Joel Blum, Marin Clark and Nathan Sheldon (August 2014-2016) Total \$742,266.
- 2013 Funded '*The role of sea level change in the spatial and temporal distribution of organic carbon accumulation and bottom water redox conditions in the Cretaceous Niobrara Sea*', American Chemical Society, Petroleum Research Fund, \$100,000. Co-PI with Nathan Sheldon [UM]
- 2012 Funded *Collaborative Research: An ultra-high-resolution record of drought, flood, and coupled ocean-atmosphere climate oscillations in Holocene and late Quaternary Californian sediments* Paleo-perspectives on Climate Change, Division of Ocean Sciences, Marine Geology and Geophysics, NSF (Sept 2013-Sept 2016: UM total \$426,565) Collaborators Erik Brown [University of Minnesota, Duluth], Linda Hinnov [Johns Hopkins], Total \$667,780 OCE:1304327
- 2011 Project Partner in '*A Role of the North Pacific Ocean in Deglacial Atmospheric CO₂ Rise?*' Funded for £473,000 by the UK funding body, NERC (NE/H008500/1).
- 2008 *Collaborative Research: An ultra-high resolution, multiproxy study of the past 2,000 years of climate change in Southern California*. Division of Ocean Sciences, Marine Geology and Geophysics, National Science Foundation (Sept 2008-Sept 2011; Funded: Total Award \$284,095) Collaborators Arndt Schimmelmann [University of Indiana, Bloomington], Dorothy Pak [University of California, Santa Barbara] Total \$562,251 OCE:0752093
- 2004 '*Expansion & Collapse of the Cordilleran Ice Sheet during the Quaternary*' OCE, MGG, NSF (Sept 2004-Mar 2008; Funded: Total Award \$257,861) OCE:0425382
- 2003 '*Acquisition of replacement equipment for the Experimental and Analytical Geochemistry Laboratory (EAGL)*' EAR – Instrumentation & Facilities, NSF (Sept 2003- Sept 2007; Funded: Total Award \$292,024) Co-PIs Lynn Walter, Jeff Alt [University of Michigan] EAR:0318037

Internal Research Proposals and Grants (Sole PI unless otherwise indicated):

- 2016 '*Volatile Earth: Megafloods production for PBS NOVA: Funding for sediment core transportation*' UMOR-FGA (Funded: Total Award \$2,890)
- 2014 Large Course Initiative Grant (Funded: Total Award \$2000)
- 2013 Associate Professor Support Fund (Funded: Total Award \$98,435)
- 2013 MCubed: *Dust in sea-ice: A source of nutrients and climate change*, (Co-PI with Mark Flanner, Sarah Aceigo, (Funded: Total Award \$60,000)
- 2012 '*Testing the impact of warm surface ocean temperatures on ice sheet collapse in the geological past.*' Crosby Award, University of Michigan, (Funded: \$7,300).
- 2011 Proposal seeking funds from the IDEAS institute for '*Inquiry-Based Learning in GeoSci223/Environ233 'Introductory Oceanography Laboratory*' (Funded: Total Award \$17,155). [Video of final product.](#)
- 2008 Proposal seeking funds from the International Institute for 'An Earth Science Field Excursion to New Zealand, August 22- September 5 2009' (Funded: Total Award

- \$10,000)
- 2007 *Freshwater Input to New Zealand Fjords: The Westerly Winds and ENSO*. OVP
University of Michigan (Aug 2008-May 2009; Funded: Total Award \$6,500)
- 2003 'Ocean circulation in 3 Dimensions: Trialing 3-D animated Movies in an Introductory Science Course' LSA Innovations in Teaching and Technology, (Sept 2003-May 2004; Funded: Total Award \$3,000)
- 2003 'Eastern Tropical Pacific Intermediate Water History' Crosby Research Fund, NSF – ADVANCE (Sept 2003-Sept 2004; Funded: Total Award \$20,000)
- 2002 'ENSO-driven ocean circulation history in the Gulf of Tehuantepec, eastern tropical Pacific' Michigan Space Consortium, (Dec 2002-Dec 2003; Funded: Total Award \$10,000).

Other Research Proposals and Grants:

- 2006 Proposal: 'Paleogene South Pacific APC Transect: Heat Transport and Water Column Structure During an Extreme Warm Climate' (request for drilling platform time; Active proposal; waiting scheduling).
- 2006 Proposal: 'Extending the high-resolution global climate record in Santa Barbara Basin back to ~1 Ma' IODP (request for drilling platform time; Active proposal; waiting scheduling)

Ocean Research Experience:

2009	SPR0901 (Kasten coring the last 2000 years in Santa Barbara Basin) <u>Chief Scientist</u> on the <i>RV Sproul</i> .	San Diego-San Diego	7 days
2005	SPLAT (A Drilling Site Survey for the South Pacific Paleogene Latitudinal Transect: Paleooceanography of the Eocene sub-Antarctic Ocean) on the <i>RV Melville</i> .	Tahiti-Tahiti	42 days
2002	MD 126 MONA (IMAGES VIII Marges Ouest Nord Américaines) on the <i>Marian Dufresne</i>	Vancouver-Cancun	35 days

Teaching Experience:

Term	Course#	Title	Enrolled	Q.1	Q.2
W2016	EES333	<i>Inexhaustible Seas: Marine resources and environmental issues</i>	24	4.20	4.38
F2016	EES222/EV232	<i>Principles of Oceanography</i>	100	3.75	3.68
SP2015	EES222/EV232	<i>Principles of Oceanography</i>	32	3.33	3.4
W2015	EES333	<i>Inexhaustible Seas: Marine resources and environmental</i>	30	3.83	4.0

issues

F2014	EES222/EV232	<i>Principles of Oceanography</i>	103	3.41	3.74
SP2014	EES222/EV232	<i>Principles of Oceanography</i>	57	3.89	4.21
W2014	EES333	<i>Inexhaustible Seas: Marine resources and environmental issues</i>	24	4.0	4.21
F2013	ESS222/EV232	<i>Principles of Oceanography</i>	114	3.36	3.68
SP2013	ESS222/EV232	<i>Principles of Oceanography</i>	66	3.94	3.88
W2013	EES333	<i>Inexhaustible Seas: Marine resources and environmental issues</i>	26	3.25	3.60
SP2012	EES222/EV232	<i>Principles of Oceanography</i>	67	4.0	4.0
W2012	EES333	<i>Inexhaustible Seas: Marine resources and environmental issues</i>	29	4.5	4.5
F2011	EES151	<i>Ice Ages: Freshman Seminar</i>	11	3.33	3.67
	EES100	<i>Coral Reefs</i>	229	3.68	4.05
W2011	GS151	<i>Ice Ages: Freshman Seminar</i>	22	2.67	2.75
F2010	GS208/497	<i>Hot Topics in the Earth Sciences/William T. Smith Lecture Seminar</i>	8	4.0	4.17
F2010	GS222/EV232	<i>Principles of Oceanography</i>	145	3.67	3.89
W2010	GS222/EV232	<i>Principles of Oceanography</i>	149	3.88	4.17
F2009	GS100	<i>Coral Reefs</i>	271	3.96	4.25
F2009	GS452	<i>Paleoceanography</i>	19	4.3	4.3
Sp2009	GS222/EV232	<i>Principles of Oceanography</i>	58	4.00	4.17
W2009	GS151	<i>Ice Ages: Freshman Seminar</i>	22	4.08	4.43
	GS436	<i>Field Studies in Stratigraphy, Paleontology, and Sedimentology</i>	11		
F 2008	GS100	<i>Coral Reefs</i>	421	3.64	3.91
	GS222/EV232	<i>Principles of Oceanography</i>	151	3.62	3.81
Sp 2008	GS100	<i>Coral Reefs</i>	41	4.57	4.63
W 2008		<i>Modified Duties</i>			

F 2007	GS100	<i>Coral Reefs</i>	215	3.50	3.75
F 2007	GS222/EV232	<i>Principles of Oceanography</i>	150	3.67	3.61
W 2007		<i>Nurturance Leave</i>			
F 2006		<i>Modified Duties</i>			
W 2006	GS452	<i>Cenozoic Stratigraphy and Global Change</i>	11 (+3)	3.88	3.75
F 2005	GS222	<i>Principles of Oceanography</i>	70	3.79	3.57
F 2005	GS100	<i>Coral Reefs</i>	166	3.97	3.99
Su 2005	GS116	<i>Introductory Field Geology</i>	21	4.5	4.3
Sp 2005	GS222	<i>Principles of Oceanography</i>	80	3.86	3.88
F 2004	GS110	<i>History of Oceans</i>	55	3.65	3.65
F 2004	GS222	<i>Principles of Oceanography</i>	21	3.75	3.14
F 2004	GS536	<i>Seminar in Stratigraphy, Paleontology, or Sedimentology</i>	9		
W 2004	GS110	<i>History of Oceans</i>	158	3.17	3.55
F 2003	GS222	<i>Principles of Oceanography</i>	83	3.07	3.03
W 2003	GS650	<i>Cenozoic Stratigraphy and Global Change</i>	5 (+3)	3.75	3.25

Students Supervised:

PhD:

2016-	Mark Robbins	<i>'Geochemistry of Glacial Meltwaters'</i>
2015-	Yi Wang	<i>'Development of porewater oxygen proxies on annual scales; Using the past to construct future Oxygen Minimum Zones.'</i>
2015-	Xiaoqing Du	<i>'Annual-scale river-runoff reconstruction of Southern California hydroclimate'</i>
2012-	Tiffany Napier	<i>'Santa Barbara Basin sediment as a recorder of terrestrial precipitation and flooding in the Quaternary'</i>
2012-2016	Allyson Tessin*	<i>'Paleoceanography of the late Cretaceous Western Interior Seaway' (*co-advised with Nathan Sheldon)</i>
2010 - 2015	Meghan Taylor	<i>'Ocean/Atmosphere interactions and trace metal geochemistry in ocean and sea ice sediments'</i>
2008 - 2013	Meghan Wagner	<i>'Delivery of Silver to Marine Sediments'</i>
2005 - 2009	Lindsey Waddell	<i>'Cenozoic high latitude paleoceanography: New perspectives from the Arctic and Antarctic'</i>
2002 - 2006	Tim Cosma	<i>'Late Quaternary Cordilleran Ice Sheet Dynamics'</i>

Masters:

- 2009 - 2011 Larianna Dunn *'Ultra-high resolution paleoclimate change in Santa Barbara Basin, California'*
- 2006 - 2010 Karla Knudson *'Westerly Wind driven precipitation and New Zealand Fjord sediments'*
- 2005 - 2006 Janine Fislser *'Planktonic Foraminiferal response to Holocene El Nino frequency, Santa Barbara Basin, California'*

Undergraduate:

- 2017- Gabrielle Farina EES498
'Two thousand years of forage fish populations in Southern California.'
- 2016-2016 Jarrett McFeters EES498
'The relationship between elevation, slope and vegetation cover on the Isthmus of Tehuantepec.'
- 2013 - 2014 Alexandra Skrivanek EES498
'Anchovy to sardine cycles and back again during the Medieval Warm Anomaly and Little Ice Age transition in Santa Barbara Basin'
- 2013 - 2013 Tessa Nugent EES498
'Sea surface temperature change during the 20th century in the North Atlantic'
- 2012 - 2012 Matthew St Clair EES498
'Planktonic foraminiferal assemblage change associated with 1300 AD Event.'
- 2011- 2012 Katherine Hanson EES498
'Reconstructing Antarctic Intermediate Water ventilation'
- 2009-2010 Meghan McPherson GS498
'Grain size and authigenic barite precipitation'
- 2007 -2008 Adena Kass Undergraduate Research Opportunities Program
'Reconstructing sea surface temperature in the South Pacific during the Last Ice Age'.
- 2007-2008 Krista Tenney GS498
'Interspecies Stable Oxygen Differences in the Glacial Eastern Tropical Pacific'.
- 2005 - 2006 Karen Kimm Senior Thesis
'South Pacific water column response to climate change: Tahiti, French Polynesia'.

Student Awards

Alex Thompson won the 2014 AEG NC student paper competition (EARTH 333 Term Paper).

Katherine Dougan won the Sweetland Upper-Level Writing Prize in Natural Science, 2015 (EARTH 333 Term Paper).

Conference Abstracts and Invited Lectures:

Invited Lectures:

- Oct 2016 *Departmental Seminar*, University of Minnesota, Duluth, Duluth, MN
Departmental Seminar, Grand Valley State University, MI
- May 2015 *Departmental Seminar*, Department of Earth, Planetary and Space Sciences, University of California Los Angeles, CA
Departmental Seminar, Department of Geological Sciences, California State University Long Beach, CA
Departmental Seminar, Department of Earth System Sciences, University of California Irvine, CA
Departmental Seminar, Department of Earth Sciences, University of California Santa Barbara, CA
- April 2015 *Departmental Seminar*, Department of Earth and Environmental Systems, Indiana State University, IN
- Nov. 2014 *Departmental Seminar*, Department of Earth and Atmospheric Sciences, Central Michigan University, MI
- March, 2013 *Departmental Seminar*, Department of Earth and Planetary Sciences, John Hopkins University, MD
- March, 2012 *IDCP Chalco Workshop*, Unidad de Seminarios Ignacio Chávez, Mexico City, Mexico
- February 2012 *Departmental Seminar*, Department of Earth and Planetary Sciences, Johns Hopkins University, MD
- April 2011 *Departmental Seminar*, Department of Earth Sciences, Dartmouth College, NH
- April & May 2011 *Seminar*, Geochemistry, Lamont-Doherty Earth Observatory, Columbia University, NY
- April 2011 *Departmental Seminar*, Department of Earth Sciences, University of New Hampshire, NH
- March, 2010 *Departmental Seminar*, Department of Geology, University of Dayton, OH
- January 2010 *Departmental Seminar*, Large Lakes Observatory, University of Minnesota Duluth, MN
- December 2009 Paleoclimate Records of North Pacific Climate Variability: Ocean-Atmosphere Interactions, *Fall American Geophysical Union*, San Francisco, CA
- December 2008 *Departmental Seminar*, School of Geography and Geology McMaster University, Hamilton, Ontario
- May 2007 *'The Response of the California Margin to Rapid Climate Change; Influences of Changing Atmosphere and Ocean Circulation on the Marine Environment.'* Pacific Climate Workshop, Monterey, CA
- December 2006 *'Ice Sheet Influences on the Pacific Northwest Marine Environment during the Last Glacial.'* Examining Late Quaternary Linkages Between Oceanographic, Terrestrial, and Cryospheric Dynamics in the Northeastern Pacific and Gulf of Alaska Regions, *Fall American*

- Geophysical Union, San Francisco, CA*
- May 2006 *Paleoclimate and Chemical Oceanography Seminar Series: School of Oceanography, University of Washington, WA*
- April 2006 *Departmental Seminar: Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO*
- November 2005 *Wally Broecker's Special Climate Seminar, Lamont-Doherty Earth Observatory, Columbia University, NY*
- April 2005 *Departmental Seminar Department of Geology, University of Cincinnati, Cincinnati, OH*
- November 2003 *Departmental Seminar Centre de Recherche en Géochimie Isotopique et en Géochronologie, Université du Québec a Montréal, Montreal, Canada*
- October 2003 *Departmental Seminar Department of Geology, Bowling Green University, Bowling Green, OH*
- September 2003 *Departmental Seminar Department of Earth Sciences University of New Hampshire, Durham, NH*
- April 2003 *'The telegraph office of the Pacific; Subpolar and tropical signals in the Southern California Bight.'* The North Pacific and its marginal seas, European Geophysical Society, American Geophysical Union, European Union of Geosciences Joint Assembly, Nice, France
- November 2002 *Wally Broecker's Special Climate Seminar Lamont-Doherty Earth Observatory, Columbia University, Palisades, New York*
- October 2002 *Departmental Seminar Department of Geology, Indiana University, Purdue University, Indianapolis, IN*
- June 2002 *'Is sub-millennial climate change on the California Margin synchronous with North Atlantic climate?'* American Quaternary Association 17th Biennial Meeting, Anchorage, Alaska.
- December 2001 *'Distinguishing Paleoproduction and Paleooxygenation on the California Margin during the Late Quaternary.'* Joint Meeting of the National Science and Research Council Climate System History and Dynamics Program and the Canadian Institute for Advanced Research Earth System Evolution Program, Vancouver, Canada.
- September 2001 *'Tropical forcing of North Pacific Intermediate-Water temperature instability during Late Quaternary rapid climate change.'* VII International Conference of Paleoceanography, Sapporo, Japan.

Abstracts:

- Stockhecke M., Brown E., Lingwall A., Hendy I., Napier T., Owen R.B., and Potts R., 2017. *Calibration of light element XRF data from carbonaceous sediments*, XRF core scanning meeting, Taiwan.
- Heusser, L. E., Hendy, I.L., and Pak D., 2017 *Floods and Fires during the Common Era: decadal-scale terrestrial data from Santa Barbara Basin*. PACLIM, Monterey, CA
- Hendy, I.L., Napier, T.J., Heusser, L. E., and Hinnov L., 2017. *A 7000-year record of rapid climate change and ENSO during the MIS 11-12 deglaciation (Termination 5) from ~430 to 422 ka*. PACLIM, Monterey, CA

- Du X., Hendy I.L., Hinnov L., Brown E., and Schimmelmanna A 2017. *A new 9,000-year stratigraphy for the Santa Barbara Basin, Southern California* PACLIM, Monterey, CA
- Du X., Hendy I.L., Hinnov L., Brown E., Schimmelmanna A. and Pak D., 2017. *2000 years of annual precipitation variability in Southern California: Global forcing of ENSO variability* PACLIM, Monterey, CA
- Wang, Y., Hendy, I.L., and Napier T., 2017, *Climate and anthropogenic controlled oceanic oxygen concentration changes on centennial to interannual timescales in coastal upwelling zones*, PACLIM, Monterey, CA
- Heusser, L.E., Hendy, I.L., Pak, D.K., 2016, *Floods and Fires: Decadal-scale terrestrial data from Santa Barbara Basin during the Common Era*, Fall American Geophysical Union, San Francisco, CA
- Hendy, I.L., Heusser, L.E., Napier, T., Pak, D. 2016, *Atmospheric Rivers and floods in Southern California: Climate forcing of extreme weather events*. Fall American Geophysical Union, San Francisco, CA
- Bervid, H.D., Carlson, A.E., Hendy, I.L., Walczak, M., Stoner, J.S. 2016, *Deglacial sea-surface temperature change and rapid response along the western margin of the northern and southern Cordilleran ice sheet*, Fall American Geophysical Union, San Francisco, CA
- Haugerud, R.A., Hendy, I.L. 2016 *Collapse of the Juan de Fuca Lobe of the Cordilleran Ice Sheet*, Geological Society of America, Denver, CO
- Hendy, I.L., Brown, E.T., Hinnov, L.A., Du, X. 2016, *9,000 years of California Weather: The relationship between extreme precipitation events and interannual climate change*. Geological Society of America, Denver, CO
- Napier, T.J., Hendy, I.L., and Bryce, J.G., 2016 *Santa Barbara Basin California flood layer provenance: Mapping flooding hazard by sediment source region*, Geological Society of America, Denver, CO
- Hendy, I. L., Taylor, M. A., and A. Chappaz, 2016, *Applying a new paleo-redox proxy to an old question: A new deglacial I/Ca ratio record from multiple benthic foraminiferal species with the north Pacific Oxygen Minimum Zone*. International Conference on Paleoceanography 12, Utrecht, Netherlands
- Wang, Y., Hendy, I.L., Napier, T., 2016 *Redox-based reconstruction of the Oxygen Minimum Zone for the past 250 years in the Santa Barbara Basin*, International Conference on Paleoceanography 12, Utrecht, Netherlands
- Du, X., Hendy, I.L., Hinnov, L., Brown, E., Schimmelmanna A. and D. Pak, 2016, *2000 years of annual precipitation variability in Southern California: Global forcing of ENSO variability*, International Conference on Paleoceanography 12, Utrecht, Netherlands
- Gombiner, J.H., Hemming, S.R., Hendy, I.L., Bryce, J.G., Blichert-Toft, J., 2016, *Isotope Geochemistry of Scabland Flood Deposits*, GSA Rocky Mountain section, Denver, CO
- Tessin, A., Sheldon, N., Hendy I.L., and Chappaz, A., 2015 *Contrasting Redox Stories from Trace Metal and Iron Proxy Records of the Late Cretaceous Western Interior Seaway*, Fall, AGU.
- Hendy, I.L., Hinnov, L., Brown, E., Napier, T., 2015, *Identifying the Holocene evolution of interannual climate variability in Southern California river runoff records*. Fall, AGU.
- Napier. T., Hendy, I.L., Hinnov, L., Brown, E., 2015. *Reconstructing Quaternary precipitation periodicities with Santa Barbara Basin sediment cores: application of the siliciclastic detrital element proxy at annual resolution*. Fall, AGU.

- Heusser, L., and Hendy I.L., 2015. *The response of southern California ecosystems to Younger Dryas-like rapid climate change: Comparison of glacial terminations 1 and 5*. Fall, AGU.
- McClatchie, S., Thompson, R. A. Watson, W. and Hendy, I. L., 2015. Intrinsic variability of forage populations and fish declines southern California Current System, 16th Annual Trinational Sardine Forum, La Jolla, CA
- Tessin, A., Hendy, I., Sheldon, N., Schroder-Adams, C. and Elderbak, K., 2015, *Carbon burial and bottom water redox in the Canadian Basin of the Western Interior Seaway during the Coniacian-Santonian*, GSA, Baltimore.
- Hendy, I.L., Napier, T.J., Brown, E.T., Schimmelmann, A., Pak, D., and Hinnov, L., 9,000 years of California weather in an ultra-high resolution scanning XRF record from Santa Barbara Basin, Pacific Climate Workshop 2015, Monterey, CA.
- Napier, T.J., Hendy, I.L., Brown, E.T., and Hinnov, L., 2015, *Reconstructing Pleistocene precipitation events from Santa Barbara Basin sediment cores: application of the detrital elemental proxy at annual resolution*, Pacific Climate Workshop 2015, Monterey, CA.
- Pak, D., Hendy, I., Schimmelmann, A., 2015, *Foraminiferal proxies reflect changes in northeast Pacific ocean-atmospheric circulation through the Medieval Climate Anomaly and Little Ice Age*, Pacific Climate Workshop 2015, Monterey, CA.
- Pospelova V., Mertens K.N., Hendy I.L., Pedersen T.F., 2015, *Holocene dinoflagellate cyst record of climate and marine primary productivity change in the Santa Barbara Basin*, Southern California. EGU, Vienna.
- Taylor, M.A.; I.L. Hendy; Aciego, S., 2014 *Distribution of dissolved and particulate trace metals in Arctic sea ice*. Fall AGU, San Francisco.
- Tessin A.C.; I.L. Hendy; N.D. Sheldon, 2014 *Decoupling of Organic and Inorganic Carbon Isotope Records during the Coniacian-Santonian in the Western Interior Seaway: Implications for Carbon Cycling during OAE 3*. Fall AGU, San Francisco.
- Hendy, I.L. et al., 2014. *Cordilleran Ice Sheet meltwater delivery to the coastal waters of the northeast Pacific Ocean*. Fall AGU, San Francisco.
- Napier T.; I.L. Hendy, 2014. *A new record of provenance and hydroclimate in Santa Barbara Basin, California spanning the last 250 years*. Fall AGU, San Francisco.
- Pak, D.K., I.L. Hendy, A. Schimmelmann and J. Reynolds, 2014. *Sea Surface Temperature Variability During the Past 2000 Years in Santa Barbara Basin, California*. Fall AGU, San Francisco.
- Taylor, M.A.; I.L. Hendy; D.K. Pak, 2014. *The California Current as a driver of millennial-scale variability on the northeast Pacific Margin from 10-50 ka*. GSA, Vancouver, Canada.
- Hendy, I.L. et al. 2014 *The mechanisms, timing and impact of Cordilleran Ice Sheet retreat on the coastal waters of the northeast Pacific Ocean*. GSA, Vancouver, Canada.
- Tessin A.C.; I.L. Hendy; N.D. Sheldon, 2014. *Trace metal chemistry reveals mechanistic differences for carbon burial during OAE 2 and 3*, GSA, Vancouver, Canada.
- Chang A.S., I.L. Hendy, and M.A. Taylor, 2014. *Impact of the Cordilleran Ice Sheet on coastal sedimentology, marine productivity and sedimentary geochemistry on the Vancouver Island margin during the last glacial maximum*, GSA, Vancouver, Canada.
- Taylor, M.A.; I.L. Hendy; and D.K. Pak, 2013. *Late Pleistocene sea surface warming as a trigger for catastrophic ice sheet wasting in the North Pacific Ocean*, Fall AGU, San Francisco.
- Tessin A.C.; I.L. Hendy; and N.D. Sheldon, 2013. *The roles of production and*

- preservation during Oceanic Anoxic Event III: A multi-proxy record from the Western Interior Seaway*, Fall AGU, San Francisco.
- Napier T.; I.L. Hendy; and A. Schimmelmann, 2013. *19th-20th century rainfall patterns reconstructed from sediment provenance in a Santa Barbara Basin box core*, Fall AGU, San Francisco.
- Hendy, I.L. and T. Napier, 2013. *Extracting a redox signal from Scanning XRF results in Santa Barbara Basin to reconstruct annual shifts in bottom water oxygen concentration*, Fall AGU, San Francisco.
- Schimmelmann A., I.L. Hendy, L. Dunn, and D.K. Pak, 2013. *Revised ~2000-year Chronostratigraphy of partially varved marine sediment in Santa Barbara Basin, California*. Pacific Climate Workshop 2013, Monterey, CA.
- Hendy I.L., A. Schimmelmann, D.K. Pak, and L. Heusser, 2013. *The Return Of Atmospheric Rivers: Transitioning From The Medieval Climate Anomaly To The Little Ice Age In Southern California*. Pacific Climate Workshop 2013, Monterey, CA.
- Hendy I.L., L. Dunn, A. Schimmelmann, and D.K. Pak, 2013. *Resolving varve and radiocarbon chronology differences in the Santa Barbara Basin sedimentary record, California*. Pacific Climate Workshop 2013, Monterey, CA.
- Napier T., I.L. Hendy, and A. Schimmelmann, 2013. *20th century rainfall patterns of Southern California assembled from sediment provenance analysis of a Santa Barbara basin box core*. Pacific Climate Workshop 2013, Monterey, CA.
- Hendy, I.L., D.K. Pak, and A. Schimmelmann, 2012. *Reorganization of North Pacific Ocean Circulation at ~1300 AD during the Terminal American SW Drought of the Medieval Climate Anomaly*. Fall AGU, San Francisco.
- Taylor, M., I.L. Hendy and D.K. Pak, 2012. *Warm, salty surface water incursions and destabilization of the Cordilleran Ice Sheet*. Fall AGU, San Francisco.
- Shevenell, A., K.E. Wilson, T.P. Guilderson, I.L. Hendy; W.R. Gray, 2012, *A deglacial ventilation history of Northeast Pacific intermediate waters*, Fall AGU, San Francisco.
- King, M.W., I.L. Hendy, and B. Lai, 2012, *Synchrotron Micro-XRF Mapping of Ag Storage in a Coastal Marine Diatom: Implications for Ag as a Novel Paleoproductivity Proxy*. Fall AGU, San Francisco.
- Heusser, L.E., I.L. Hendy, J.A. Barron, and D.K. Pak, 2012, *Multi-decadal variation in southern California drought during the Medieval Climate Anomaly and Little Ice Age (~800AD-~1800AD) - evidence from coeval terrestrial and marine proxies*. Fall AGU, San Francisco.
- Pak, D.K., I.L. Hendy, A. Schimmelmann and J. Reynolds, 2012 *Linking foraminiferal proxy records to the instrumental temperature record over the last 200 years in Santa Barbara Basin, California*, Fall AGU, San Francisco.
- Schimmelmann, A., Dunn, L., Hendy, I.L., and D.K. Pak, 2012. ' *Missing varves in Santa Barbara Basin due to intermittent oxygenation and drought prior to the 18th century*'. 3rd PAGES Varve Working Group Workshop, Germany.
- Hendy, I.L., L. Dunn, A. Schimmelmann and D.K. Pak, 2011. '*Millennial-scale surface water mass radiocarbon reservoir age changes recorded on the California Margin*'. Fall AGU, San Francisco.
- M.W. King; I.L. Hendy, 2011, '*An Isolated Glacial Southern Ocean Gathers No Oxygen: Trace Metal Evidence for a Sedimentary Redox Shift from Poor Ventilation to High Production*'. Fall AGU, San Francisco.

- King, M., I.L. Hendy, J.L. McKay and T.F. Pedersen: 2011 '*Comparison of redox-sensitive trace metal enrichments and productivity indicators in Southern Ocean sediments: a test of Ag as a new proxy for diatom production*'. Goldschmidt Conference of Geochemistry, Prague, Czech Republic
- Schimmelmann, A., Hendy, I., Pak, D. and A. Zayin, 2011, '*Erosion of topmost varves by turbidite deposition limits varve count accuracy in Santa Barbara Basin, California*' Pacific Climate Workshop 2011, Monterey, CA.
- Pak, D., Clayman, L., Weaver, J., Schimmelmann, A. and Hendy, I. 2011 '*Foraminiferal shell thinning over the last 100 years in varved sediment from the Santa Barbara Basin, California.*' Pacific Climate Workshop 2011, Monterey, CA.
- Heusser, L. Barron, J. and I. Hendy 2011 '*Occurrence of severe drought conditions in coastal southern California during the Medieval Climate Anomaly inferred from pollen deposited in Santa Barbara Basin since ~800 A.D.*' Pacific Climate Workshop 2011, Monterey, CA.
- Dunn, L. Hendy, I. and A. Schimmelmann 2011 '*Comparison of varve chronology and ^{14}C dates at high resolution: Re-evaluating the age of the Santa Barbara Basin Late Holocene paleoclimate sequence*' Pacific Climate Workshop 2011, Monterey, CA.
- Hendy, I., Dunn, L. and A. Schimmelmann 2011 '*The timing of multidecadal drought signals recorded in the elemental composition of Santa Barbara Basin sediments*' Pacific Climate Workshop 2011, Monterey, CA.
- Hendy I.L., Dunn, L., and Schimmelmann, A. 2010 '*Late Holocene droughts in Southern California.*' International Conference on Paleoceanography X, San Diego, CA
- Knudson, K.P.; I. L. Hendy; and H. Neil. 2010, '*Late Holocene Precipitation Patterns in New Zealand Fjords: Reconstruction of Southern Hemisphere Westerly Winds.*' International Conference on Paleoceanography X, San Diego, CA
- Dunn, L. and I.L. Hendy, 2010. '*Ultra high-resolution elemental XRF scanning analysis of Santa Barbara Basin.*' Goldschmidt Conference of Geochemistry, Knoxville, TN.
- Wagner, M.E. and I.L. Hendy, 2010. '*Quantifying Ag uptake and storage in marine diatoms.*' Goldschmidt Conference of Geochemistry, Knoxville, TN.
- Hendy I.L. and Chang A.S., 2010 '*Northern Hemisphere Cryospheric Connections during Deglaciation: Expected and Unexpected Responses.*' European Geophysical Union. Vienna, Austria.
- Hendy I. L. 2009, '*Did the surface ocean cool in the South Pacific Gyre during the last glacial? New planktonic foraminiferal Mg/Ca results from the Cook-Austral island chain.*' Fall American Geophysical Conference San Francisco.
- Hendy I. L.; and A. S. Chang. 2009, '*Could the Cordilleran Ice Sheet destabilize the North Pacific during deglaciation?*' Fall American Geophysical Conference San Francisco.
- Khadun E.; A. Shevenell; T. P. Guilderson; S. L. Hautala; L. Thompson; I. L. Hendy. 2009, '*Constraining the timing of proglacial Lake Missoula outburst floods into the Northeast Pacific: Insights from Cascadia Basin sediments.*' Fall American Geophysical Conference San Francisco.
- Knudson K. P.; I. L. Hendy; and H. Neil. 2009, '*Westerly Wind Variability in New Zealand Fjords: Signals of Marine and Terrestrial Sedimentation.*' Fall American Geophysical Conference San Francisco.
- Pak; D. K. J. Kennett; D. W. Lea; and I. L. Hendy. 2009, '*Planktonic foraminiferal proxy evidence for Santa Barbara Basin sea surface temperature changes during the Medieval Climate Anomaly and Little Ice Age.*' Fall American Geophysical Conference San Francisco.

- Taylor T. R.; D. K. Pak; J. Kennett; and I. L. Hendy. 2009, *Upwelling Record of the Last 3500 years in Santa Barbara Basin, California*. Fall American Geophysical Conference San Francisco.
- Waddell L. M.; I. L. Hendy; T. C. Moore; and M. W. Lyle. 2009, *Subantarctic Pacific hiatuses as clues to periods of enhanced oceanic circulation during the late Neogene*. Fall American Geophysical Conference San Francisco.
- Wagner M. E.; I. L. Hendy; and J. L. McKay. 2009, *Evaluation of Paleoproductivity Proxies in the Southern Ocean*. Fall American Geophysical Conference San Francisco.
- Chang, AS, Hendy IL, and Pedersen TF, 2009, *Late Quaternary Glacial Influence on Coastal Sedimentation, Paleoproductivity and Sedimentary Redox, Southwest British Columbia, Canada*. Canadian Quaternary Association, Vancouver, Canada.
- Waddell, L M, Hendy, I L, Moore, T C, and Lyle, M W, 2009, *Subantarctic Pacific Stable Isotope Evidence for a CO₂ Sink in the Abyssal Southern Ocean during the Late Pliocene*, Goldschmidt Conference of Geochemistry, Davos, Switzerland.
- Waddell, L M, Hendy, I L, Moore, T C, and Lyle, M W, 2008, *Late Pliocene Changes in Abyssal Southern Ocean Ventilation: New Insights from the Subantarctic Pacific*, Fall American Geophysical Conference San Francisco.
- Knudson, K P and Hendy, I L, 2008 *Post-depositional Diagenetic Carbonate Precipitation, Methane Production and Climate- Driven Sedimentary Processes in the Northeastern Pacific Nitinat Fan*, Fall American Geophysical Conference San Francisco.
- Hendy, I L and Pedersen, T, 2008 *The Fate of Barite in Sediments Under a Coastal Upwelling System*. Fall American Geophysical Conference San Francisco.
- Griffin, H, Shevenell, A E, Hendy, I L and Emerson, S R, 2008, *An Extreme Expression of the California Current during the Holocene: New Evidence from the Washington Margin*. Fall American Geophysical Conference San Francisco.
- McKay, J L, Hendy, I L, Chang, A S, Ivanochko, T S, and Kienast, S S, 2008. *Sedimentary Silver as a Paleoproductivity Proxy*, Fall American Geophysical Conference San Francisco
- Hendy I.L., T.N. Cosma and A.S. Chang, 2008. *Using Local and Global Effects on a High Resolution ¹⁴C Record to Constrain Climate Change Forcing and Ice Sheet Response from Vancouver Island, Western Canada* Goldschmidt Conference of Geochemistry, Vancouver BC.
- Hendy I. L and T.N. Cosma, 2008 *Cordilleran Ice Sheet-Climate Interactions: Not all Rapid Climate Change is equal*. 20th biennial American Quaternary Association, Penn State, PA.
- Knudson, K., and I.L. Hendy, 2008 *Glacial-sourced turbidites on an active margin: A new stable isotopic stratigraphy for the Nitinat Fan, Pacific Ocean* 20th biennial American Quaternary Association, Penn State, PA.
- Stancin A. M., J. Gleason, R. Owen, D. Rea, T. Moore, I. Hendy, M. Lyle and J. Blum, 2007 *Strontium Isotope Dating of Metalliferous Sediment in the SW Pacific Basin*, Fall American Geophysical Conference San Francisco
- Waddell L.M., I.L. Hendy, T. Moore, and M. Lyle, 2007 *A New Stable Isotope Record From the Subantarctic Southeastern Pacific*. Fall American Geophysical Conference San Francisco
- Hendy I.L., D. Pak, J Barron and D. Lea, 2007 *Southern California Hydrographic Shifts During the Medieval Climate Anomaly and the Little Ice Age*. Fall American Geophysical Conference San Francisco
- Hendy I.L., 2007. *A Marine Isotope Stage 3 record from the Eastern Tropical Pacific of Water Column Structure Reorganization*. Spring Joint American Geophysical Conference, Acapulco, Mexico

- Hendy I.L., 2007. *The Response of the California Margin to Rapid Climate Change; Influences of Changing Atmosphere and Ocean Circulation on the Marine Environment*. PACLIM, Monterey, CA
- Hendy I.L., T. Cosma, A. Chang, and T.F. Pedersen, 2006 *Ice Sheet Influences on the Pacific Northwest Marine Environment during the Last Glacial*. Fall American Geophysical Conference, San Francisco
- Hendy I.L. and T. Cosma, 2006 *Correlating Cordilleran Ice Sheet Collapse with North Atlantic Heinrich Events using Global Radiocarbon Plateaus*. Fall American Geophysical Conference, San Francisco
- Hendy I.L., 2006, *Seasonal Influences on Multiple Benthic Species in an Oxygen Minimum Zone during the last 30 ka*, Goldschmidt Conference of Geochemistry, Melbourne, Australia
- Fisler J. and I. Hendy, 2006, *Late Holocene Planktonic Foraminiferal Assemblage Shifts in Santa Barbara Basin, California; Indicators of rapid environmental change*, PACLIM, Monterey, CA
- Galbraith, E., Pedersen, T.F., Chang, A. and I. Hendy, 2006, *SERIES Extended: A 750,000-year record of nitrogen and oxygen dynamics in the Gulf of Alaska*, Canadian Meteorological and Oceanographic Society, Toronto.
- Pedersen, T.F., Galbraith, E., Hendy, I.L., and A. Chang. 2006, *High-frequency variability in sedimentary $\delta^{15}\text{N}$ on the western margin of North America and implications for Pacific circulation history*, Geological Association of Canada, Montréal.
- Chang A., Hendy, I.L., Cosma T., and T.F. Pedersen, 2006, *Paleoproductivity, upwelling and glaciation histories on the Vancouver Island Margin over the last 45 kyr*, Geological Association of Canada, Montréal.
- Latimer, J.C., G.F. Filipelli, D.R. Newark, and I.L. Hendy, 2006, *Diatom-intrinsic phosphorus: Implications for the marine P cycle*. Ocean Sciences, American Geophysical Conference, Honolulu.
- Hendy I.L., and T.F. Pedersen, 2005, *The Passage of an oxygen-depleted water mass through the Pacific during Deglaciation*. Fall American Geophysical Conference, San Francisco
- Fisler, J.A. and I.L. Hendy, 2005, *Holocene Planktonic Foraminiferal Assemblage Shifts on the California Margin; Environmental Forcing of Medieval Chumash Society?* Fall American Geophysical Conference, San Francisco
- Latimer, J.C., G.M. Filippelli, I.L. Hendy, J.D. Gleason, and J.D. Blum, 2005, *Glacial/Interglacial Terrigenous Provenance in the Southeastern Atlantic Ocean*, Fall American Geophysical Conference, San Francisco
- Paul C.F., M.W. Lyle, D.K. Rea, L.M. Liberty, S.A. Hovan, J.D. Gleason, I.L. Hendy, J.C. Latimer, R.M. Owen, D.J. Thomas, B.M. Murphy, A.M. Stancin, T.H. Rea, and M.P. Bolyn, 2005, *The South Pacific Bare Zone*, Fall American Geophysical Conference, San Francisco
- Cosma T. and Hendy I.L. 2005, *Northeastern Pacific IRD events: Evidence for multiple Cordilleran Ice Sheet retreats*. GSA, Salt Lake City.
- Hendy I.L. and T. Cosma, 2004, *The Growth and Decay of the Southern Lobe of the Cordilleran Ice Sheet*. Fall American Geophysical Conference, San Francisco.
- Stancin, A M and Gleason J D, Owen R M, Rea D K, Moore T C, Hendy I, Blum J D, Klaue B, 2004 *Differentiation of Cenozoic Eolian Dust Sources in the Eastern Pacific by Nd-Sr-Pb Radiogenic Isotopes*, Fall American Geophysical Conference San Francisco,
- Pedersen, T., I. Hendy, E. Galbraith, J. Crusius, M. Kienast, 2004, *Variability of export production in the sea: Symptoms, history, and implications for climate*. SOLAS Open Science Conference, Halifax, Canada.
- Cosma and I.L. Hendy, 2004, *Terrestrial sediments and the $\delta^{18}\text{O}$ record: Cordilleran Ice Sheet dynamics, Vancouver, British Columbia*. GSA, Denver.

- Hendy I.L., Minckley T. Whitlock, C., Pedersen T.F. and Thunell R.C. 2004
Strengthening of the Oxygen Minimum Zone in the Gulf of Tehuantepec during Deglaciation: Stagnation of Eastern Tropical Pacific Intermediate Water?
International Conference of Paleoceanography, Biarritz, France.
- Latimer JC, Filippelli GM, Hendy I, Gleason JD, 2004, *Paleo-Fe Inputs and Terrigenous Sedimentation in the Southern Ocean*. International Conference of Paleoceanography, Biarritz, France
- Cosma, T. and I. Hendy, 2004, *Northeastern Pacific Sediments Record Cordilleran Ice Sheet dynamics*. International Conference of Paleoceanography, Biarritz, France
- Hendy, I.L., Thunell, R.C., T.F. Pedersen, 2003 '*Stagnation of the Eastern Tropical Pacific During Deglaciation?: Porewater Oxygen Concentration Shifts in the Gulf of Tehuantepec*', American Geophysical Conference San Francisco.
- Cosma, T.N., Hendy, I.L., 2003. '*The Pacific Decadal Oscillation and the Growth and Decay of the Cordilleran Ice Sheet During the Last Glacial*', American Geophysical Conference, San Francisco.
- Kienast, S S, Hendy, I L, Crusius, J, Pedersen, T F, Calvert, S E, 2003, *A review of palaeoproductivity records from the N Pacific: The end of the iron hypothesis?*, American Geophysical Conference, San Francisco.
- Hendy, I.L., J.P. Kennett, T.F. Pedersen, 2003, (Invited) '*The telegraph office of the Pacific; Subpolar and tropical signals in the Southern California Bight.*' Spring American Geophysical Conference-EUG, Nice, France
- Hendy, I.L. & T.F. Pedersen, 2002, '*Local and Far-Field Effects Under a Southern Californian Upwelling Cell; Trace Element Results From ODP Hole 1017E, San Lucia Slope, California*' American Geophysical Conference, San Francisco.
- Hendy, I. L., J.P. Kennett, E.B. Roark, 2002 (Invited) '*Is sub-millennial climate change on the California Margin synchronous with North Atlantic climate?*' American Quaternary Association 17th Biennial Meeting, Anchorage, Alaska.
- Hendy, I.L. & T.F. Pedersen, 2001, '*The influence of upwelling off Point Conception, California on Santa Barbara Basin during the last 60 Ka; Comparison of trace metals and planktonic fauna*' American Geophysical Conference, San Francisco.
- Hendy, I.L. & T.F. Pedersen, 2001, (Invited), '*Distinguishing Paleoproduction and Paleoxygenation on the California Margin during the Late Quaternary.*' Joint Meeting of the NSERC Climate System History and Dynamics Program and the CIAR Earth System Evolution Program, Vancouver.
- Hendy, I.L. & J.P. Kennett, 2001, (Invited), *Tropical forcing of North Pacific Intermediate-Water temperature instability during Late Quaternary rapid climate change*. VII International Conference of Paleoceanography, Saporu, Japan.
- Hendy, I.L. & T.F. Pedersen, 2001, *Decoupling of productivity and porewater oxygen content under a Southern Californian Upwelling Cell; Trace Element results from ODP Hole 1017E*. VII International Conference of Paleoceanography, Saporu, Japan.
- Hendy, I.L. & T.F. Pedersen, 2001, *The Intermittent Existence of a Southern California Upwelling Cell During the Last 60 Ka*. Canadian Geophysical Union, Ottawa.
- Hendy, I.L. & T.F. Pedersen, 2001, *Productivity or Ventilation? The Importance of Multiproxy Results from a Californian Upwelling Cell (ODP Hole 1017E, San Lucia Slope)*. Alternate Platforms Conference, Lisbon, Portugal.
- Hendy, I.L. & J.P. Kennett, 2000, *Surface Ocean Response to Rapid Climate Change Along a North-South Transect of the California Margin*, Fall American Geophysical Conference, San Francisco

Hendy, I.L., J.P. Kennett, E.B. Roark, 2000, *New dates for the last termination at ODP 893A: Evidence for synchronicity of submillennial scale climate events between Greenland and Santa Barbara Basin*. Trins, Austria

Hendy, I.L. & J.P. Kennett, 1999, *North Pacific Intermediate Water temperature instability during Late Quaternary rapid climate change*. Fall American Geophysical Conference, San Francisco.

Professional Service:

Departmental Service:

2017 - Upper Level Writing Requirement Advisor
2016-17 Faculty Search Committee (chair)
2014- Keck Lab Director
2014-15 Faculty Search Committee (member)
2013-17 Pre-candidacy Exam Standing Committee (member)
2013-15 Turner Post-Doc committee (member)
2012 Faculty Search Committee (member)
2010-11 Organizer: Departmental Smith Lecture Series
2009 Turner Postdoc Committee
2009 Departmental Fieldtrip – New Zealand
2008 Student Awards Committee (chair)
2007 Departmental Ombudsperson
Student Awards Committee (member)
2006 Earth Systems Sciences Faculty Search Committee (member)
2005 Organizer: Departmental Smith Lecture Series
2004 Graduate Student Admission Committee (member)
2003 Departmental Ombudsperson
Turner Graduate Student Funding Panel (member)
2003 Departmental Fieldtrip – Hawaii
2002 Atmospheric Change Faculty Position Search (member)

College Service:

2017 MWrite Seminar Fellow
2015- LSA Curriculum Committee
2014 LSA Large Course Initiative Grantee
2012-14 Rackham Merit Award Committee
2009-10 Sweetland Center for Writing Senior Fellow
2009 Judge at the *Michigan Geophysical Union* Student Poster Presentations
2007 Participant in the *Undergraduate Research Opportunity Program (UROP)* at the University of Michigan.

Professional Service:

- 2017 Co-Convenor of 'Cordilleran Ice Sheet Outburst Floods: From Glacial Lake Missoula to the Hubbard Glacier.' Denver GSA
- 2017 Will appear in PBS NOVA series '*Volatile Earth*' Episode '*Megafloods*'.
- 2016 Editor, Quaternary Science Reviews. Impact Factor: 4.521
- 2016 Co-Convenor of 'Pluvials, atmospheric rivers, monsoons, and water availability from the Quaternary into the future: Modeling, observations and paleo-reconstructions of hydroclimate extremes.' Fall AGU
- 2016 Co-Convenor of 'Pluvials, Atmospheric Rivers, Monsoons, and Water Availability in Western North America from the Quaternary into the Future: Modeling, Observations, and Paleo Reconstructions of Hydroclimate Extremes' Denver GSA
- 2013 NSF *Office of Polar Programs; Antarctic Geology* panel, August
- 2012 NSF *Office of Polar Programs; Antarctic Geology* panel, August
- 2011 *NSF Marine Geology & Geophysics* panel, November
- 2010 Editorial Board: *Geology*
- 2008 Invited contributor to SyntraCE, 21,000 Workshop
- 2008 Co-convenor of 'Teleconnections: how are climate signals communicated globally' session at *Goldschmidt*, 2008
- 2007 '*Future of Earth System History at NSF*' Workshop, 2007
- 2004 *NSF ADVANCE Departmental Transformation Project* to increase the successful recruitment, retention and promotion of tenure-track women faculty in basic science fields.
- 2003 *NSF Marine Geology & Geophysics* panel, November
- 2000, *Peter Wall Institute of Advanced Studies Junior Visiting Scholar Program*, provided with an opportunity to interact with young scholars working at the cutting edge of their fields
- 2002