

BIOGRAPHICAL SKETCH:

Julia Smith Wellner
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Professional Preparation

<i>Institution</i>	<i>Major</i>	<i>Degree</i>	<i>Year</i>
Bryn Mawr College, Bryn Mawr, PA	Geology	A.B.	1993
University of Alabama, Tuscaloosa, AL	Geology	M.S.	1995
Rice University, Houston, TX	Geology and Geophysics	Ph.D.	2001

Appointments

<i>Years(s)</i>	<i>Title</i>
2013-present	Assistant Professor, Department of Earth and Atmospheric Sciences, University of Houston
2007-present	Adjunct Assistant Professor, Department of Earth Science, Rice University
2006-2013	Co-Director Geoscience Learning Center & Research Assistant Professor, Department of Earth and Atmospheric Sciences, University of Houston
2001-2006	Post-doc and lecturer, Rice University
2000	ExxonMobil Exploration Intern, Deepwater Angola
1998	Shell Research and Development Intern, Deepwater Gulf of Mexico
1997	Conoco Intern, South America Regional Geology

Products

Five products most closely related to the proposed project

- Livsey, D., A. Simms, W. Clary, J. Wellner, J. Anderson, and J. Chandler, 2013, Fourier grain-shape analysis of Antarctic marine core: the relative influence of provenance and glacial activity on grain-shape, *Journal of Sedimentary Research*, v. 80, p. 80-90, DOI: 10.2110/jsr.2013.5.
- Ducklow, H., A. Orsi, and J.S. Wellner, 2012, Introduction to the Special Issue on Antarctic Oceanography in a Changing World, *in Antarctic Oceanography in a Changing World*, Oceanography, v. 25, n.3, p. 14-17.
- Wellner, J.S., J.B. Anderson, W. Ehrmann, F.M. Weaver, A. Kirshner, D. Livsey, and A. Simms, 2011, Sedimentologic record of the evolving ice sheet as recorded in SHALDRIL cores from the Northwestern Weddell Sea, Antarctica, *in* Anderson, J.B., and Wellner, J.S., eds., *Tectonic, Climatic and Cryospheric Evolution of the Antarctic Peninsula*, American Geophysical Union Special Volume, p. 131-151.
- Tectonic, Climatic, and Cryospheric Evolution of the Antarctic Peninsula*, eds., J.B. Anderson and J.S. Wellner, 2011, American Geophysical Union Special Publication, 218 p.
- Anderson, J.B. S. Warny, R.A. Askin, J.S. Wellner, S.M. Bohaty, R.T. Smith, A. Kirshner, A. Simms, S.W. Wise Jr., D.K. Kulhenek, F.M. Weaver, W. Ehrmann, W. Majewski, D.L. Barbeau, Jr., 2011, Climate deterioration in the Antarctic Peninsula and the demise of Antarctica's last refugium, *Proceedings of the National Academy of Science*, v. 108, p., 11356-11360, doi:10.1073/pnas.1014885108.

Five Other Significant Products

- *Barnard, A., J. S. Wellner, and J. B. Anderson, 2014, Small but significant late Holocene regional climate change documented in high-resolution sediment core from the Bransfield Strait, Antarctic Peninsula, *Polar Research*, v. 33, <http://dx.doi.org/10.3402/polar.v33.17236>.

- Boldt, K., C. Nittrouer, B. Hallet, M. Koppes, B. Forrest, J. Wellner, and J. Anderson, 2013, Modern rates of glacial sediment accumulation along a 15° S-N transect: in fjords of the Antarctic Peninsula and southern Chile, *Journal of Geophysical Research-Earth Surface*, v. 118, p. 1-17, doi:10.1002/jgrf.20145.
- Majewski, W., J. S. Wellner, W. Szczucinski, and J. B. Anderson, 2012, Holocene oceanographic and glacial changes recorded in Maxwell Bay, West Antarctica, *Marine Geology*, v. 326-328, p. 67-79.
- Menzies, J., J. van der Meer, E. Domack, and J.S. Wellner, 2010, Micromorphology: a new tool in the detection, analyses and interpretation of (glacial) sediments and man-made materials, *Proceedings of the Geologists' Association*, v. 121, p. 281-292.
- Wellner, J. S., S. Sarzalejo, M. Lagoe, and J. B. Anderson, 2004, Sequence stratigraphy of delta evolution on the West-Louisiana-East Texas shelf and upper slope during the last glacial-eustatic cycle, *SEPM Memoir* 79, p. 217-235.

Selected Recent Synergistic Activities

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| 2013 | Antarctic Geologic Drilling Workshop Organizer |
| 2012-2014 | Scientist Mentor, NASA Education & Public Outreach for Earth and Space Sciences Program, STEP: Creating a Sustainable Trainer Engagement Program for Earth and Space Sciences |
| 2011-present | Delegate to ANDRILL Science Committee |
| 2008-present | American Association of Petroleum Geologists Grants in Aid Committee |

Collaborators and Other Affiliations

(i) John Anderson (Rice), Greg Balco (Berkeley Geochronology Center); Stefanie Brachfeld (Montclair State U.); Eugene Domack (Hamilton College), Rodrigo Fernandez (U. of Texas), Bernard Hallet (U. Washington), Scott Ishman (Southern Illinois U.) Amy Leventer (Colgate U.); Zunli Lu (Syracuse U.); Ros Rickaby (Oxford), Ted Scambos (NSIDC), Alex Simms (UC Santa Barbara), Maria Vernet (Scripps).

(ii) **Graduate and Postdoctoral Advisors:** M.S. advisor: Richard H. Groshong, Jr., Professor Emeritus, Department of Geological Sciences, Un. of Alabama; Ph.D. and post-doc advisor: John B. Anderson, W. Maurice Ewing Professor of Oceanography, Department of Earth Science, Rice University.

(iii) **Students Advised:** M.S.: Derek Rice (2009, now with Rice Energy), Alex Barnard (2010, now in PhD program, UH), Laurin Hardin (2011, now with ExxonMobil), Austin Luker (2012, now with Citation Oil), Kimberly Mead (2012, now with Marathon Oil), Eren Dongel (2014, now with Turkish National Petroleum Company); B.S. Honors Theses: Yuribia Muñoz (2011, now NSF Graduate Fellowship in PhD program, UH), Dan Erklauer (2012, now with Fugro Chance), Yanet Cuddus (2012, now in M.S. program, UH); 8 current students.

Total number of graduate students advised: 6 completed.

Total number of postdoctoral scholars sponsored: 0.