

CURRICULUM VITAE

Kristen Ellen Kudless St. John

Department of Geology & Environmental Science, MSC 6903
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Academic Interests:

Geoscience Education, Marine Sedimentology, Paleoceanography

Academic Appointments:

James Madison University, Department of Geology and Environmental Science, Harrisonburg, VA
2005- Associate Professor (Tenure granted in 2007)

Appalachian State University, Department of Geology, Boone, NC
2004 Associate Professor (Tenure granted in 2004)
1998-2004 Assistant Professor

The Ohio State University, Department of Geological Sciences, Columbus, OH
1997 Instructor

Otterbein College, Department of Life Sciences, Westerville, OH
1997 Instructor

Education:

The Ohio State University, Columbus, OH, USA
1998 Ph.D., Late Cenozoic Ice-Rafted Debris Studies of the SE Greenland Margin and the North Pacific Ocean (Thesis advisors: L.A. Krissek; G.D. McKenzie; L.G. Thompson; P.N. Webb)
1995 MS, Mineralogy and Provenance of Holocene Sedimentary Sequences, Lake Huron and Georgian Bay (Thesis advisors: L.A. Krissek; G.D. McKenzie; W.I. Ausich)

Furman University, Greenville, SC, USA
1992 BS, Geology

Teaching Experience:

James Madison University, Department of Geology and Environmental Science, Harrisonburg, VA
Courses Taught: Earth Science for Teachers; Earth Systems, Cycles, and Human Impact; Science of the Planets; Oceanography; Oceanography for Teachers (undergraduate and graduate courses)

Undergraduate Research Advisor of:

2008-2009	Joy Binda
2007-2008	Corey Ramstad
2006-2007	Kirby Walke, Ken Conner
2005-2006	Kristen Mullen, Brendan Quirk, Michelle Summa

Appalachian State University, Department of Geology, Boone, NC

Courses Taught: Senior Seminar; Historical Geology; Oceanography (undergrad. and grad.);
Environmental Geology; Physical Geology Lab, Historical Geology Lab

Undergraduate Research Advisor of:
Trey Kendrick

The Ohio State University, Department of Geological Sciences, Columbus, OH

Course Taught: Historical Geology, Historical Geology Lab, Physical Geology Lab

Otterbein College, Department of Life Sciences, Westerville, OH

Course Taught: Environmental Science

Scientific Expeditions:

2005 Co-Lead Scientist Educator, Integrated Ocean Drilling Program (IODP) Expedition
312T: educational transect "School of Rock Expedition"
2004 Onshore Sedimentologist, IODP, Arctic Coring Expedition 302, Bremen, Germany
1997 Shipboard Sedimentologist, Ocean Drilling Program (ODP) Leg 173, Iberia margin
1995 Shipboard Sedimentologist, ODP Leg 163, SE Greenland margin

Research Grants:

2007 PI, NSF Course Curriculum, and Laboratory Improvement (CCLI), (\$174,000)
2005 PI, post-expedition research grant, IODP Expedition 302 (ACEX), JOI/USSSP (\$23,100)
2005 PI, undergraduate supplement grant, IODP Expedition 302 (ACEX), JOI/USSSP (\$5000)
2005 Associate Investigator, Virginia Earth Science Collaborative: Developing Highly
Qualified Teachers, VA DOE, Mathematics & Science Partnership (MSP) (~\$920,000)
2002 PI, Dwight D. Eisenhower Professional Development Grant, North Carolina Science
Teacher Education, (~\$30,000)
1997 PI, post-cruise research grant, ODP Leg 173, JOI/USSSP (~\$27,000)
1995 PI, post-cruise research grant, ODP Leg 163, JOI/USSSP (~\$25,000)

Awards:

2002 *100 Scholars* Research Award, Appalachian State University
1998 Spieker Book Award, Dept. of Geological Sciences, The Ohio State University,
Columbus, OH
1997 Research Award for Stable Isotope Research Analysis, Geochron Laboratories, Krueger
Enterprises, Cambridge, MA
1997 Presidential Fellowship, Graduate School, The Ohio State University, Columbus, OH

Professional Service:

2008 Co-Leader, Making the Case for Tenure: an Early Career Workshop, sponsored by GSA
GED and On the Cutting Edge, GSA, Houston, TX. (scheduled for October 2008)
2008 Co-Leader, Gulf Coast Repository School of Rock Workshop on Climate Change, Texas
A&M University, College Station, TX
2007-2008 Chair, Geoscience Education Division, Geological Society of America (term ends
October 2008)
2007-2008 Chair, Education and Outreach Subcommittee, U.S. Advisory Committee on Scientific
Ocean Drilling (term ends October 2008)
2007-2008 Chair, Geophysics Search Committee, JMU, Harrisonburg, VA.

- 2007-2007 Campus Representative, GSA
 2007 Session Co-Chair, Science Education Partnerships – Case Studies of Scientists, Students, and Teachers Working Together – A Range of Examples from Earth and Ocean Science Research Programs, AGU, San Francisco, CA.
- 2007 Session Co-Chair, Charting the Future of Geological and Environmental Science Undergraduate Programs, GSA, Denver, CO.
- 2007 Co-Leader, Making the Case for Tenure, An Early Career Workshop, GSA, Denver, CO.
- 2007 Co-Leader, Gulf Coast Repository School of Rock Workshop, Texas A&M University, College Station, TX
- 2007 Co-Leader, Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career, workshop sponsored by NAGT & NSF, Williamsburg, VA
- 2007 Co-Leader, Joint Oceanographic Institutions Core Workshop, Grand Valley State University, Michigan
- 2007 Member, GSA Joint Technical Program Committee
- 2006-2007 Vice-Chair, Geoscience Education Division, Geological Society of America
- 2006 Lead Organizer, GSA Short Course: Using Authentic Scientific Ocean Drilling Data for Earth Systems Science Inquiry, Philadelphia, PA
- 2006 Co-Leader, Early Career Geoscience Faculty Workshop: Teaching, Research, and Managing Your Career, sponsored by NAGT & NSF, Williamsburg, VA
- 2006 Consultant for chapter in Leckie and Yuretich, *Investigating the Oceans – Illustrated Concepts and Classroom Inquiry*.
- 2006-2005-2008 Member, College of Science of Math Diversity Council
 Member, US Science Advisory Committee on Scientific Ocean Drilling (USAC)
- 2005-2006 2nd Vice-Chair, Geoscience Education Division, Geologic Society of America
- 2005-2005 Scientific reviewer of instructional materials for Ocean Leadership, Deep Earth Academy (formerly JOI Learning; <http://www.oceanleadership.org/learning>)
- 2005 Member, Schlanger Ocean Drilling Fellowship review committee
- 2005 Lead Organizer, Earth Systems Education Workshop, Earth Systems Processes II International Meeting, Calgary
- 2005 Editorial panel member, Integrated Drilling Program Leg 302 Scientific Results Volume
- 2004-2003 Associate Editor, *Journal of Geoscience Education*
- 2003 Fellow, North Carolina Teacher Link Program
- 2002 Executive Planning Group member, N.C. Earth Science Educators Conference, Boone NC
- 2002 Upward Bound Mentor
- 2001-2001- Proposal Reviewer (e.g., NSF CCLI, NSF Geoscience Education, NSF Polar Programs, CRDF)
- 2001-2001- Journal Reviewer (e.g., *Deep Sea Research*, *Terra Nova*, *Paleoceanography*, *Marine Geology*, *Earth and Planetary Science Letters*; *Global and Planetary Change*)
- 2001-2004 Teacher Workshop Facilitator, oceanography and geology topics, Appalachian State University
- 2001 Consultant for the McGraw-Hill middle school Earth Science textbook (published 2001)

Membership in Professional Organizations:

American Geophysical Union
 Geological Society of America, Geoscience Education Division
 National Association of Geoscience Teachers
 Phi Beta Kappa
 Project Kaleidoscope F21 member
 Sigma Xi
 Virginia Science Teacher Association

Peer-Reviewed Publication:

- St. John, K.**, (accepted, in press). Oceanography Professional Development in Virginia via Collaboration, Field-Integration, and Inquiry, *The Journal of Mathematics and Science: Collaborative Explorations*.
- Niemitz, M., Slough, S., Peart, L., Klaus, A., Leckie, M., **St. John, K.**, (2008). Interactive Virtual Expeditions as a Learning Tool: The School of Rock Expedition Case Study, *Jl. of Educational Multimedia and Hypermedia* 17(4), 561-580.
- St. John, K.**, (2008). Cenozoic History of Ice-Rafting in the Central Arctic: Terrigenous Sands on the Lomonosov Ridge, *Paleoceanography*, 23, PA1S05.
- Sangiorgi, F., van Soelen, E.E., Spofforth, D., Pälke, H., Stickley, C., Brinkhuis, H., **St. John, K.**, Koç, N., Schouten, S., Sinninghe Damsté, J.S., (2008). Middle Eocene cyclicity in the Central Arctic Ocean sediment record: orbital forcing and paleoenvironmental response, *Paleoceanography*, 23, PA1S08.
- Pagani, M., Pendentchouk, N., Huber, M., Sluijs, A., Schouten, S., Brinkhuis, H., Sinninghe-Damsté, J.S., Dickens, G.R., and **Expedition 302 Scientists** (2006). The Arctic's hydrological response to global warming during the Paleocene-Eocene thermal maximum, *Nature*, 442, 671-675.
- Niemitz, M., Slough, S., Peart, L., Klaus, A., Leckie, M., **St. John, K.**, (2006). Ship-to-shore Educational Communications and Interactivity via the World Wide Web: The School of Rock Expedition Case Study, *Ed-Media Proceedings*, Association for the Advancement in Communication in Education.
- Leckie, M., **St. John, K.**, Peart, L., Klaus, A., Slough, S., and Niemitz, M., (2006). The "School of Rock Expedition": Education and Science Connect at Sea Aboard the U.S. Scientific Drilling Vessel: A model for integrating cutting-edge ocean-going science with educational initiatives. *EOS*, v. 87, no 24, p. 240-241.
- Sluijs, A., Schouten, S., Pagani, M., Woltering, M., Pedentchouk, N., Brinkhuis, H., Sinninghe-Damsté, J.S., Dickens, G.R., Huber, M., Reichert, G.J., Stein, R., Matthiessen, J.J., Lourens, L.J., Backman, J. Moran, K., and the **Expedition 302 Scientists**, (2006). Subtropical Arctic Ocean conditions during the Palaeocene Eocene thermal maximum, *Nature*, v. 441, 610-614.
- Brinkhuis, H., Schouten, S., Sluijs, A., Sinninghe-Damsté, J.S., Bujak, J.P., Eldrett, J.S., Collinson, M.E., Huber, M., Dickens, G.R., Harding, I.C., DeLeeuw, J.W., and **Expedition 302 Scientists** (2006). A giant warm early Eocene Arctic pond. *Nature*, v. 441, 606-610.
- Moran, K., Backman, J., Brinkhuis, H., Clemens, S., Cronin, T., Dickens, G., Eynaud, F., Gattacceca, J., Jakobsson, M., Jordan, R., Kaminski, M., King, J., Koc, N., Krylov, A., Martinez, N., Matthiessen, J., Moore, T., Onodera, J., O'Regan, M., Pälke, H., Rea, B., Rio, D., Sakamoto, T., Smith, D., Stein, R. **St. John, K.**, Suto, I., Suzuki, N., Takahashi, K., Watanabe, M., Yamamoto, M., Frank, M., Kubik, P., Jokat, W., Kristoffersen, Y., McInroy, D., Farrell, J., (2006). The Cenozoic palaeoenvironment of the Arctic Ocean, *Nature*, v. 441, 601-606.
- St. John, K.**, Flower, B., and Krissek, L., (2004) Evolution of iceberg melt, biological productivity, and the record of Icelandic volcanism in the Irminger basin since 630 ka based on a comprehensive sediment census. *Marine Geology* v. 212, 133-152.
- St. John, K.**, (2004). Evidence that's an ocean apart: co-varying records of ice-rafted debris flux and Plio-Pleistocene bipolar ice sheet disintegration. *The Sedimentary Record* v. 2, no. 2, 4-8.
- St. John, K.**, and Callahan, J., (2003). Making geology relevant to non-science majors through the Environmental Site Assessment Project. *Journal of Geoscience Education* v. 51, no. 4.
- Krissek, L.A., and **St. John, K.**, (2002). Pleistocene iceberg production from East Greenland: Synchronous between source areas, but distinct from global ice volume. *Journal of the Geological Society of Denmark*, v. 49, pp.79-89.
- St. John, K.**, and Krissek, L.A., (2002). The late Miocene to Pleistocene ice-rafting history of southeast Greenland. *Boreas* v. 31. pp. 28-35.
- St. John, K.**, 2000. Data report: Downcore variation of Site 1068 breccia matrix mineralogy. In Beslier, M.-O., Whitmarsh, R.B., Wallace, P.J., and Girardeau, J. (Eds.), *Proc. ODP, Sci. Results*, 173 [Online]. Available from World Wide Web: http://www-odp.tamu.edu/publications/173_SR/chap_01/chap_01.htm.
- St. John, K.**, and Cowan, E.A., (2000). Coarse-grained gypsum in high latitude marine sediments: isotopic and sedimentological evidence for freeze-induced terrestrial formation and subsequent ice transport. *Journal of Sedimentary Geology*, v. 136, pp. 43-58, and v. 140, pp. 315-318.

- St. John, K.**, and Krissek, L.A., (1999). Regional patterns of Pleistocene IRD fluctuations in the North Pacific. *Paleoceanography*, v. 14 pp. 653-662.
- Kudless-St. John, K.**, 1999. Data Report: Site 918 IRD mass accumulation rate record, late Miocene-Pleistocene. In Larsen, H.C., Duncan, R.A., Allan, J.F., Brooks, K. (Eds.), *Proc. ODP, Sci. Results*, 163: College Station, TX (Ocean Drilling Program), 163-166.

Manuscripts in Preparation:

* = undergraduate students

- St. John, K.**, Leckie, M., Slough, S., Peart, L., Klaus, Niemitz, M., (**INVITED**; in prep.) Field Geoscience Education – The Pilot School or Rock Program at Sea for Teachers, *Geological Society of America Special Paper*.
- St. John, K.**, Passchier, S., & Kearns, L., (in prep.). Quartz sand surface textures as an indicator of sea ice vs. iceberg rafting in the central Arctic.
- St. John, K.**, Quirk*, B., et al., (in prep.). Why the foraminifera record is poor in the central Arctic before the late Quaternary.
- St. John K.**, (in prep.) Going back to original data: DSDP3 sea floor spreading data for the undergraduate earth science classroom.

Textbook-Related Publications:

- St. John** (2008). Test bank for *Earth's Climate, Past and Future* by Ruddiman, 2nd edition. (CD-ROM), W.H.Freeman

Scientific Expedition Reports & Pre-Expedition Proposals:

- Stein, R. Jokat, W. Coakley, B., Jakobsson, M., Matthiessen, J., Moran, K., O'Regan, M., and **K. St. John** (2006). IODP 708-Pre-Proposal: A Paleoceanographic Transect Across the Central Arctic Ocean: Towards a Continuous Cenozoic Record from a Greenhouse to an Icehouse World (ACEX-2).
- Expedition 302 Scientists**, (2005). Arctic Coring Expedition (ACEX): paleoceanographic and tectonic evolution of the central Arctic Ocean. *IODP Prel. Rept.*, 302. doi:10.2204/iodp.pr.302.2005
- Whitmarsh, R.B., Beslier, M.-O., Wallace, P.J., and **Shipboard Scientific Party**, (1998). *Proc. ODP, Init. Repts.*, 173 [Online] http://www-odp.tamu.edu/publications/173_IR/173TOC.HTM
- Duncan, R.A., Larsen, H.C., Allan, J.F., and **Shipboard Scientific Party**, (1996). *Proc. ODP, Init. Repts.*, 163: College Station, TX (Ocean Drilling Program).

Invited Seminars and Symposiums:

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| 2008 | Invited Speaker: Re-writing history on ice in the Arctic - Surprising results from the Arctic Coring Expedition, University of Maryland, Department of Atmospheric and Oceanic Sciences. |
| 2007 | Invited Speaker: Cenozoic ice-rafting history of the central Arctic, IODP Topical Symposium: North Atlantic & Arctic Climate Variability, Bremen, Germany |
| 2007 | Keynote Speaker, Virginia Junior Academy of Sciences statewide meeting, Harrisonburg, VA. |
| 2006 | Invited Seminar on: Motion in the Ocean: Currents and the Sea Floor. Virginia Content Teacher Academy for middle and high school teachers, Harrisonburg, VA. |
| 2005 | Invited Speaker, Paleoceanography of the high North Atlantic: Long term patterns and evolutionary Steps since 630 ka. Montclair State University, Department of Earth and Environmental Studies, Montclair, NJ. |

2005 Invited Seminar on: Investigating Marine Earth. Virginia Content Teacher Academy for middle and high school teachers, Harrisonburg, VA.

Meeting Presentations & Abstracts Proceedings:

* = undergraduate students

- Pyle, E., and **K. St. John** (accepted, presentation scheduled October 2008). A Math-Science Partnership for Geoscience Education: Increasing the Numbers of Qualified Earth Science Teachers in Virginia, GSA, Houston, TX
- O'Regan, King, **St. John**, Moran, Jakobssen, and Backman (accepted, presentation summer 2008). The Pleistocene stratigraphy of central Arctic Sediments: A 1.2 Myr record from the Arctic Coring Expedition (IODP 302), SCAR/IASC/IPY Open Science Conference: Polar Research – Arctic and Antarctic Perspectives in the International Polar Year, in St. Petersburg.
- O'Regan, M., Frank, M., Haley, B., **St. John, K.**, Backman, J., Moran, K., Vogt, C., Jakobsson, M., and C. Ashmankas (2008). North Atlantic inflow and ice-coverage in the central Arctic Ocean: Neogene records from the Lomonosov Ridge, European Geophysical Union General Assembly, Vienna, Austria, *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-07844, 2008, Ref-ID: 1607-7962/gra/EGU2008-A-07844
- Firth, J., and **K. St. John**, (2008). From deep ocean sediments to glacial lakes: Backtracking evidence from late Pleistocene/early Holocene jokulhaups using cores from ODP legs 169 & 169S, ASLO Ocean Sciences Meeting, Orlando, FL; Ocean Sciences Meeting Abstract Book; <http://www.aslo.org/orlando2008/files/2008osm-abstracts.pdf>.
- St. John, K.**, Leckie, M., Peart, L., and A., Klaus (2008) Science Made Accessible: An Overview of the School of Rock Program. ASLO Ocean Sciences Meeting, Orlando, FL; Ocean Sciences Meeting Abstract Book; <http://www.aslo.org/orlando2008/files/2008osm-abstracts.pdf>.
- Slough, S., Prouhet, T., Peart, L., Leckie, M., **St. John, K.**, Katz-Cooper, S., Klaus, A., Petronotis, K., Firth, J., Guerin, G., Buckholtz, C., Crowder, L., and C. Peng (2007). Building formal and informal partnerships through a land-based, hands-on research expedition for Earth and ocean science teachers, American Geophysical Union National Meeting, San Francisco, CA, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED31B-03.
- St. John, K.**, (INVITED; 2007). Neogene and Eocene ice-rafting in the central Arctic, American Geophysical Union National Meeting, San Francisco, CA, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D-03
- Sangiorgi, F., van Soelen, E.E., Spofforth, D., Pälike, H., Stickley, C., Brinkhuis, H., **St. John, K.**, Koç, N., Schouten, S., Sinninghe Damsté, J.S., (2007). Cyclicity in the Central Arctic Ocean Middle Eocene Sediment Record: Orbital Forcing and Environmental Response, American Geophysical Union, San Francisco, CA, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D-0775.
- Ramstad*, C., and **K. St. John**, (2007). Composition of Eocene Ice-Rafted Debris, Central Arctic Ocean, American Geophysical Union, San Francisco, CA. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP11A-0231.
- St. John, K.**, Leckie, M., Peart, L., S. Katz-Cooper, (2007). School of Rock Professional Development Program – The Synergy of Scientific Ocean Drilling Research and Education, GSA, Denver, CO. *Abstracts with Programs - Geological Society of America*, vol. 39, no. 6, pp.410.
- St. John, K.**, (INVITED, 2007). Cenozoic ice-rafting history of the central Arctic. *IODP Topical Symposium on North Atlantic and Arctic Climate Variability*, Bremen, Germany.
- Sangiorgi, F., van Soelen, E.E., Spofforth, D., Pälike, H., Stickley, C., Brinkhuis, H., **St. John, K.**, Koç, N., Schouten, S., Sinninghe Damsté, J.S.,(2007). Cyclicity in the Central Arctic Ocean Middle Eocene Sediment Record: Orbital Forcing and Environmental Response, *IODP Topical Symposium on North Atlantic and Arctic Climate Variability*, Bremen, Germany.
- Conner*, K, and **St. John, K.**, (2006). Concentration of heavy grains in the core catchers samples of mid-Eocene to late Pleistocene sediments from the Lomonosov Ridge, Arctic Ocean, SE GSA, Savannah, GA
- St. John, K.**, (INVITED, 2006). Cenozoic (0-46 Ma) Ice-Rafting History of the Central Arctic: Terrigenous Sands on the Lomonosov Ridge, AGU, San Francisco CA.

- St. John, K.**, Clark, V., Oden, S., and Lundberg, C., (2006). Get an Earth Science Endorsement: VESC Oceanography Course, Virginia Association of Science Teachers, Richmond, VA.
- St. John, K. (INVITED)**, (2006). Strategies for effective translation of program-generated data for use by educators: examples from the JOI School of Rock Expedition. GSA, Philadelphia, PA.
- Quirk*, B., and **St. John, K.**, (2006). Cenozoic planktonic foraminifera diagenetically altered to siderite in Lomonosov Ridge sediments, Arctic Ocean, SE GSA, Knoxville, TN
- Mullen*, K., Summa*, M., and **St. John, K.**, (2006). The first long-term record of ice-rafting in the central Arctic based on sand accumulation 0-46 myr, SE GSA, Knoxville, TN
- St. John, K.**, (INVITED), (2006) From the Seafloor to your Classroom. Earth and Space Science Resource Day Science Lecture II, *National Earth Science Teachers Association* (NESTA) & National Science Teachers Association (NSTA), Anaheim, CA.
- St. John, K.**, Thompley, J., Westerhold, T., Flower, B., Krissek., L., (2005). Time series analysis of ice-rafted debris accumulation in the Irminger basin, 0-630 ka, AGU, San Francisco, CA
- Stearling, D., Cothron, J., Pyle, E., Fraizer, W., Matkins, J., **St. John, K.**, (2005). Virginia Earth Science Collaborative: Developing Highly Qualified Teachers, Virginia Association of Science Teachers, Roanoke, VA
- St. John, K.**, (2005). A model for integrating interdisciplinary, systems research into introductory undergraduate classes. Earth Systems Processes 2 meeting, Calgary, Alberta, Canada
- St. John, K.**, Richie, J., Flower, B., Krissek, L., (2003). Orbital and sub-orbital periodicities in east Greenland ice-rafting since 630 ka. AGU, San Francisco, CA.
- St. John, K.**, and Flower, B., (2003). Irminger Basin (Site 919) Tephra stratigraphy since 620 ka supports link between deglaciations and explosive Icelandic volcanism. EGS-AGU-EUG Joint Assembly, Nice, France.
- St. John, K.**, Kendrick*, T., Zellers, S, and Flower, B., (2003). Diversity and abundance trends of planktonic and benthic foraminifers since 620 ka from the Irminger Basin (ODP Site 919), northern North Atlantic. SE-SCGSA, Memphis, TN.
- St. John, K.**, (2003). From the mountains to the coast: A short-course in ocean science for NC teachers. SE Coastal Ocean Sciences Conference, Charleston, SC.
- St. John, K.**, and Callahan, J., (2002). The Environmental Site Assessment Project: an example of an inquiry-based learning exercises for introductory earth/environmental science courses. SE-NC GSA, Lexington, KY.
- St. John, K.**, Flower, B. and Rowe*, C., (2001). Quantitative results of IRD, microfossil, and isotopic analyses of Pleistocene sediments from Hole 919A in the western Irminger Basin, east Greenland margin. GSA, Boston, MA.
- St. John, K.**, and Cowan, E.A., (2000). Co-varying IRD records suggest bipolar cycles of ice sheet disintegration since 3.0 Ma. AGU, San Francisco, CA.
- Kudless-St. John, K.**, and Cowan, E.A., (1998). Coarse-grained gypsum in high latitude marine sediments: isotopic and sedimentological evidence for freeze-induced terrestrial formation and subsequent ice transport. GSA, Toronto, Canada.