

*Curriculum Vitae*

CHRISTINE SMITH SIDDOWAY

Associate professor

Department of Geology, The Colorado College

Colorado Springs, Colorado 80903 U.S.A.

Tel. 719-389-6717(6621) FAX: 719-389-6910

[www2.coloradocollege.edu/Dept/GY/faculty\\_christine\\_siddoway.asp](http://www2.coloradocollege.edu/Dept/GY/faculty_christine_siddoway.asp)

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ACADEMIC BACKGROUND

- 1995-96 Fulbright post-doctoral research fellowship, University of Siena, Italy.  
1995 Ph.D., University of California-Santa Barbara.  
1989 M.S., University of Arizona, Tucson.  
1984 B.A., Carleton College, Northfield, Minnesota.
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APPOINTMENTS

- 2007- Associate professor and Chair, Geology Dept. Colorado College, CO.  
2002- Associate professor of Geology, Colorado College, Colorado Springs, CO.  
2006 (5 mo.) Visiting Scientist, Lamont-Doherty Earth Observatory, Columbia Univ.  
2002-03 Visiting professor, Department of Geosciences, University of Minnesota.  
2001 Director, Keck Consortium Junior Research in Colorado (summer).  
1998-2000 John D. and Catherine T. MacArthur Assistant Professor, Colorado College.  
2000, -06. -08 Research School Visitor, Australian National University: Sensitive high resolution ion microprobe (SHRIMP) geochronology and geochemical analysis  
1996-2008 Principal investigator, U.S. Antarctic Program (5 awards).  
1996 Geologist, National Antarctic Program of Italy, field research expedition.  
1996-2001 Assistant professor, Colorado College, Colorado Springs, CO.  
1994-1995 Visiting assistant professor, Colorado College, Colorado Springs, CO.  
1992-93 Geologist, German National Antarctic Expedition, GANOVEX VII.

RESEARCH INTERESTS: *Migmatites as a record of the behavior of middle crust in orogens, Tectonic evolution of Antarctica and Gondwana's active margin, Rocky Mountains structures, Proterozoic history of Laurentia with emphasis on Mesoproterozoic events*

TEACHING EMPHASIS: *Structural geology, Geological field methods, Metamorphic petrology*

RESEARCH GRANTS:

- 2008 Collaborative Research: Formation of basement-involved foreland arches: An Integrated EarthScope experiment, \$ 99,326. With M. Anderson (Colorado College), E. Erslev (CSU), Anne Sheehan (CU-Boulder), and Kate Miller (UTEP). *Pending*.  
2008 Collaborative research: Polyphase orogenesis and crustal differentiation in West Antarctica, NSF-OPP-0839041, \$124,640, *Pending*. With M. Brown, University of Maryland.

*Research Grants, continued:*

- 2004-07 Collaborative research: Gneiss dome architecture: Investigation of form and process in the Fosdick Mountains, West Antarctica, NSF-OPP 0338279, 36 months.  
[www.nsf.gov/awardsearch/showAward.do?AwardNumber=0338279](http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0338279)
- 2006 Collaborative Research: Staging the 10th International Symposium on Antarctic Earth Science (10th ISAES). As Organizing Committee member, participated in writing NSF proposal that funded an international meeting at U.C.–Santa Barbara in 2007. \$410,000.
- 2004-05 U.S. workshop participation: “Frontiers and Opportunities in Antarctic Earth Sciences,” NSF-OPP 043543, 12 months.
- 2001-03 Collaborative research: Contrasting styles of ca. 1.4 Ga tectonism in the Southern Rockies: Evidence for a fossil rheologic transition in a deeply exhumed intracontinental orogen. NSF Earth Sciences 0101314, January 2001–December 2003.
- 1997-2003 Collaborative Research: Air-Ground Study of Tectonics at the Boundary Between the Eastern Ross Embayment and Western Marie Byrd Land, Antarctica: Basement Geology and Structure. NSF-OPP-9615282.
- 1996 Collaborative International Research: Investigation of Structures, Structural Fabrics and Metamorphic Associations in northern Victoria Land, NSF-OPP 9702161.

**INVITED LECTURES AND WORKSHOP PARTICIPATION**

**(PAST 6 YEARS)**

- 2008: Eau Claire (WI) Public Library, Jan. 2. Carleton College (75<sup>th</sup> Anniversary Symposium), Jan. 18. Northern Colorado University, April 8. Victoria University – Wellington [New Zealand], Sept. 18.
- 2007: Int’l Symposium Antarctic Earth Sciences, plenary lecture, Aug. 28. University of Colorado-Boulder, Dec. 5.
- 2006: University of New Hampshire, April 27. Lamont-Doherty Earth Observatory of Columbia University, June 28. McMurdo Station Science seminar series, October 2006.
- 2005: GARM: Greater Ancestral Rocky Mtns workshop, Gunnison, CO, May 2005. Colorado State University, Oct. 10.
- 2004: Channel Flow workshop, Geol. Society of London, Dec. 6-7. University of Wyoming, Nov. 29. Teaching Structural Geology in the 21<sup>st</sup> Century, Cutting Edge workshop, June 24-30. Heiland Lecture, Colorado School of Mines, April 22. Co-convenor: Frontiers and Opportunities in Antarctic Earth Sciences, Workshop, Siena, Italy, August 2004.
- 2003: Carleton College, Feb. 24. St. Olaf College, Feb. 12. Univ. Wisconsin-Eau Claire, March 27. University of Minnesota- Duluth, April 3.

**ACADEMIC / PROFESSIONAL SERVICE**

- 2008— Committee on Assessment (committee in its initial year).
- 2007-- Chair, Geology Department, Colorado College.
- 2007 Field trips coordinator and Excursion leader (Rio Grande rift) for 10<sup>th</sup> Int’l Symposium on Antarctic Earth Sciences [ISAES X]
- 2005-08 Integrated Solid Earth Science steering committee and coordinator for ISES graduate summer schools at Colorado College.
- 2004-07 Organizing Committee, 10<sup>th</sup> Int’l Symposium on Antarctic Earth Sciences, 2007, Univ. California-Santa Barbara, [www.isaes2007.geol.ucsb.edu/Committees.html](http://www.isaes2007.geol.ucsb.edu/Committees.html)
- 2005-06 Editor, Proceedings, Frontiers and Opportunities in Antarctic Earth Sciences.
- 2005-09 Doctoral committee for Rory McFadden, U. Minnesota PhD student
- 2003-05 Natural Sciences Division Executive Committee, Colorado College.
- 2004 Workshop Co-Convenor, Frontiers and Opportunities in Antarctic Earth Sciences, Pontignano, Università di Siena, Italy, August 29-31, 2004.
- 2001-02 Advisory Committee for Presidential Search, Colorado College..
- 2000--2002 Minority Concerns Committee, faculty chair; President’s Forum on Diversity.

1998–2001 Panelist, Antarctic Geology & Geophysics, National Science Foundation.  
1996 Organizing Committee Member, VII International Symposium on Antarctic Earth Science [Siena, Italy], and Associate editor for Proceedings volume.

*Professional service - Peer review/Journals:* Geological Society of America Bulletin, Tectonics, Rocky Mountain Geology, European Journal of Mineralogy, Terra Antartica. Geology, Journal of Metamorphic Geology, Tectonophysics. *Peer review/Grant proposals:* NSF-Earth Sciences, NSF-Office of Polar Programs; Italian National Antarctic Program. *Nominated for:* Geological Society of America Structural Geology & Tectonics [SGT] board (2008).

*Professional Affiliations:* American Geophysical Union; Geological Society of America; United States Antarctic Program; Association of Women Geologists; Society for the Advancement of Chicano and Native American Scientists; Rocky Mountain Association of Geologists; New Mexico Geological Society.

## UNDERGRADUATE TEACHING

### COURSES TAUGHT

GY100 Topics in Geology: Antarctica: Geological records of Global Change	GY 313 Metamorphic Petrology
GY100 Topics in Geology: Geological framework for Southwest Cultures	GY 315 Structural Geology
GY130 Introductory Geology	GY316 Field analysis of Geological Structures
GY140 Physical Geology	GY345 Regional Studies in Geology (capstone)
GY210 Fundamental Geological Methods and Rocky Mountain Evolution	GY400 Senior Seminar
	GY405 Research Topics in Geology

## RESEARCH ADVISING

Undergraduate research advising: 2 to 5 junior or senior students, annually; together with 1 to 3 sophomore and junior students who do independent study courses for academic credit. For topics and titles of resulting abstracts, see p. 9-10 of the CV.

Graduate and post-graduate advising:

Fawna J. Korhonen, Office of Polar Programs post doctoral fellow (co-sponsor, 2006-).  
Saitoshi Saito, University of Maryland post-doctoral fellow (2006-08).  
Jamie Levine, University of Texas Ph.D. student (committee member 2008-).  
Rory McFadden, University of Minnesota doctoral student (committee member, 2005-).  
James Jones IV, University of Texas-Austin Ph.D. (completed 2005).

## PEER-REVIEWED PUBLICATIONS

- Siddoway, C., 2008, Tectonics of the West Antarctic rift system: New light on the history and dynamics of distributed intracontinental extension (invited paper) *in* Cooper, A.K., P.J. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, and the 10th ISAES editorial team (eds.), Antarctica: A Keystone in a Changing World, Proceedings - 10th International Symposium on Antarctic Earth Sciences. Washington, DC: The National Academies Press, p. 91-114.
- Saito, S., F. J. Korhonen, M. Brown and C. S. Siddoway, 2008 in review, Multiple generations of granite in the Fosdick Mountains, Marie Byrd Land, West Antarctica: Implications for crustal differentiation in a continental margin setting, *Journal of Petrology*.
- Siddoway, C. and Siddoway, M., 2007, Geometrical analysis of structural data collected at high South latitude: A modular arithmetic method that addresses meridional convergence. Submitted to: Cooper, A. and Raymond, C., Antarctica: A Keystone in a Changing World, U.S. Geological Survey, USGS OFR-2007-1047, doi:10.3133/of2007-1047.srp061, <http://pubs.usgs.gov/of/2007/1047/srp/srp061/>. 5 pages.
- McFadden R., C. S. Siddoway, C. Teyssier, C. M. Fanning, and S. C. Kruckenberg, 2007, Cretaceous oblique detachment tectonics in the Fosdick Mountains, Marie Byrd Land, Antarctica. In: Cooper, A. and Raymond, C., Antarctica: A Keystone in a Changing World. U.S. Geological Survey, USGS OFR-2007-1047, doi:10.3133/of2007-1047.srp046, <http://pubs.usgs.gov/of/2007/1047/srp/srp046>. 6 pages.
- Gaffney, Amy M. and Siddoway C.S., 2007, Heterogeneous sources for Pleistocene lavas of Marie Byrd Land, Antarctica: new data from the SW Pacific diffuse alkaline magmatic province (extended abstract). In: Cooper, A. and Raymond, C., Antarctica: A Keystone in a Changing World. Proceedings and Conference Abstracts, U.S. Geological Survey, USGS OFR-2007-1047, <http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea063.pdf>. 4 pages.
- Korhonen, F.J., M. Brown, and C.S. Siddoway, 2007, Petrologic and geochronological constraints on the polymetamorphic evolution of the Fosdick migmatite dome, Marie Byrd Land, West Antarctica (extended abstract). In: Cooper, A. and Raymond, C., Antarctica: A Keystone in a Changing World. Proceedings and Conference Abstracts, U.S. Geological Survey, USGS OFR-2007-1047, <http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea049.pdf>. 4 pages.
- Saito, S. Korhonen, F.J., M. Brown, and C.S. Siddoway, 2007, Petrogenesis of granites in the Fosdick migmatite dome, Marie Byrd Land, West Antarctica (extended abstract). In: Cooper, A. and Raymond, C., Antarctica: A Keystone in a Changing World. Proceedings and Conference Abstracts, U.S. Geological Survey, USGS OFR-2007-1047, <http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea105.pdf>; 4 pages.
- Siddoway, C., 2007, Geology of Marie Byrd Land (invited paper), *in* Riffenburgh, B., ed., *Encyclopedia of the Antarctic*, volume 2, New York: Routledge, p. 623-627.
- Siddoway, C. [editor], 2006, *Frontiers and Opportunities in Antarctic Earth Sciences* [Proceedings], Pontignano, Università di Siena, Italy (August 29-31, 2004), *Terra Antartica Reports*, v. 12, 212 p.
- Siddoway, C. and Siddoway, M., 2006, Addressing the longitude reference problem in Antarctica: A method for regional comparison of structural data using modular arithmetic, *Terra Antartica Reports*, v. 12, 119-132.
- Siddoway C.S. and Ricci, C.A., 2006. Scientific frontiers and future research directions in Antarctic Geosciences. *Terra Antartica Reports*, 12, p. 1-7.
- Siddoway, C.S., 2006, Internet connections: Frontiers and Opportunities in Antarctic Geosciences, Online. *Terra Antartica Reports*, 12, p. 13-14.
- Keller, J.W., Siddoway, C.S., Morgan, M.L., Route, E., Sacerdoti, R. and Stevenson, A., 2005, Geologic Map of the Manitou Springs Quadrangle, El Paso County, Colorado, Colorado Geological Survey, Denver, CO, Open-File report 03-19. Map at 1: 24 000 and text, <http://geosurvey.state.co.us/pubs/gis/mapping.asp>.

- Siddoway, C.S., Sass, L.C. III, Esser, R.P., 2005, Kinematic history of the Marie Byrd Land terrane, West Antarctica: Direct evidence from Cretaceous mafic dykes, in Vaughan, A., Leat, P., and Pankhurst, R.J. (eds.), *Terrane Processes at the Margin of Gondwana*, Geological Society of London, Special Publication 246, p. 417-438.
- Siddoway, C.S.; Richard, S.; Fanning, C.M.; and Luyendyk, B. P. , 2004, Origin and emplacement mechanisms for a middle Cretaceous gneiss dome, Fosdick Mountains, West Antarctica, in Whitney, D.L., Teyssier, C.T., and Siddoway, C., eds., *Gneiss domes in orogeny*, GSA Special Paper 380, p. 267–294.
- Whitney, D., Teyssier, C., and Siddoway, C., eds., 2004, *Gneiss domes in orogeny*, GSA Special Paper 380, 393 p. URL: [rock.geosociety.org/bookstore/default.asp?oID=0&catID=9&pID=SPE380](http://rock.geosociety.org/bookstore/default.asp?oID=0&catID=9&pID=SPE380).
- Siddoway, C.S.; Baldwin, S.; Fitzgerald, P.G., Fanning, C.M.; and Luyendyk, B.P., 2004, Ross Sea mylonites and the timing of intracontinental extension within the West Antarctic rift system, *Geology*, v. 32, no. 1, p. 57-60.
- Morgan, M.L., Siddoway, C.S., Rowley, P.D., Temple, J., Keller, J.W., Archuleta B.H., and Himmelreich, J.W. Jr., 2004, *Geologic Map of the Cascade Quadrangle, El Paso County, Colorado*, Colorado Geological Survey, Denver, CO, Open-File report 03-18. Map at 1: 24 000 and text. <http://geosurvey.state.co.us/pubs/gis/mapping.asp>
- Luyendyk, B. P., Wilson, D. and Siddoway, C.S., 2003, The eastern margin of the Ross Sea Rift in western Marie Byrd Land: Crustal structure and tectonic development: Geochemistry, Geophysics, Geosystems (*G<sup>3</sup>*), v. 4 (10), 1090, doi:10.1029/2002GC000462. [www.agu.org/journals/gc/](http://www.agu.org/journals/gc/)
- Stone, J.O., Balco, G.A., Sugden, D.E., Caffee, M.W., Sass, L.C., III, Cowdery, S., Siddoway, C., 2003, Late Deglaciation of Marie Byrd Land, West Antarctica, *Science*, v. 299, p. 99-102.
- Luyendyk, B.P., Smith Siddoway, C., & Druivenga, G., 2003, Gravity measurements on King Edward VII Peninsula, Marie Byrd Land, West Antarctica, during GANOVEX VII: *Geologisches Jahrbuch*, v. B 95: 101-126.
- Finn, C. A., Anandakrishnan, S., Goodge, J., Panter, K., Siddoway, C., 2003, Potential of airborne geophysical capabilities discussed: EOS, Transactions of the American Geophysical Union (meeting report), v. 84, p.4.
- Rowley, P.D., Himmelreich, J.W., Jr., Kupfer, D.H., and Siddoway, C.S., 2003, *Geologic map of the Cheyenne Mountain quadrangle, El Paso County, Colorado*: Colorado Geological Survey Open-File Report 02-5, scale 1:24,000.
- Sterne, E.J., R. G. Reynolds, and C.S. Siddoway, 2002, Laramide Structure and Synorogenic Sedimentation of the Colorado Front Range, Geological Society of America Fall pre-meeting field trip # 16.
- Leonard, E., Hubbard M.; Kelley S.; Evanoff E.; Siddoway C., and 3 others, 2002, High Plains to Rio Grande Rift: Late Cenozoic Evolution of Central Colorado: Geological Society of America Field Guide 3: Science at the Highest Level: pp. 59–93. doi: 10.1130/0016-7592(2002)003<0059:HPTRGR>2.0.CO;2.
- Skotnicki, S.J. and C.S. Siddoway, 2001, *Compilation geologic map of the Galleta Flat West 7.5' Quadrangle, Pima and Cochise Counties, Arizona*. Digital Geologic Map 08, Arizona Geological Survey. [http://www.azgs.state.az.us/publist\\_2.htm#digital](http://www.azgs.state.az.us/publist_2.htm#digital)
- Luyendyk, B. P., C. C. Sorlien, D. Wilson, L. Bartek, G. Ely, C.S. Siddoway, and K. Zellmer, 2001, Structural and tectonic evolution of the Ross Sea rift in the Cape Colbeck region, Eastern Ross Sea, Antarctica, *Tectonics*, v. 20, no. 6, 933-958.
- Siddoway, C.S., 2000, Tectonic evolution of Marie Byrd Land, West Antarctica: Disassembly of the Mesozoic margin and Cenozoic activity related to the West Antarctic Rift System. *Global Tectonic Zones/Special Symposium F6: Active margin of Antarctica*; 31<sup>st</sup> Int'l Geological Congress, Rio de Janeiro, August 7-16, 2000. 4 p., CD-ROM 31<sup>st</sup> IGC.

- Siddoway, C.; Givot, R. M.; Bodle, C. D., and Heizler, M.T., 2000, Dynamic setting for Proterozoic plutonism: information from host rock fabrics, central and northern Wet Mountains, Colorado. Special issue: Proterozoic Magmatism of the Rocky Mountain Region, Carol Frost (ed.), *Rocky Mountain Geology*, v. 35, no. 1, 91-111.
- Talarico, F., Ghiribelli, B., Smith Siddoway, C., Palmeri, R., and Ricci, C. A., 1998, The northern Victoria Land segment of the Antarctic paleo-Pacific Margin of eastern Gondwana; new constraints from the Lanterman and Mountaineer ranges, *Terra Antartica*, v. 5, no. 2, 245-252.
- Smith, C.H., 1997, Mid-Crustal Processes During Cretaceous Rifting, Fosdick Mountains, Marie Byrd Land, in Ricci, C.A. (editor), The Antarctic Region: Processes and Evolution, *Terra Antartica* Publications, Siena, Italy: 313-320. (N.B. name previously Smith)
- Smith, C.H., 1996, Migmatites of the Alexandra Mountains, West Antarctica: Pressure-Temperature conditions of formation and regional context, *Geologisches Jahrbuch*, v. B 52, p. 169-178. (N.B. name previously Smith)
- Smith C.H., 1996, Volatile contents of Cordierite in Migmatites, Fosdick Mountains, Antarctica, *Terra Antartica*, v. 3, no. 1, 11-22. (N.B. name previously Smith)
- Luyendyk, B.P., Cisowski, S., Smith, C.H., Richard, S. M., and Kimbrough, D.L., 1996, Paleomagnetic study of the northern Ford Ranges, western Marie Byrd Land, West Antarctica: a middle Cretaceous pole, and motion between West and East Antarctica? *Tectonics*, v. 15, no. 1, 122-141. (N.B. name previously Smith)
- Richard, S.M., Smith, C.H., Kimbrough, D.K., Fitzgerald, P.G., Luyendyk, B.P. & McWilliams., M.O., 1994, Cooling history of the northern Ford Ranges, Marie Byrd Land, West Antarctica, *Tectonics*, v. 13, no. 4, pp. 837-857. (N.B. name previously Smith)
- Gehrels, George E. and Smith, Christine H., 1991, U-Pb geochronologic constraints on the age of thrusting, crustal extension, and peraluminous plutonism in the Little Rincon Mountains, southern Arizona, *Geology*, v. 19 (3), 238-241. (N.B. name previously Smith)

#### PUBLICATIONS IN PREPARATION

- Siddoway C. and Fanning C.M., in prep 2008, Continental tectonics of the East Gondwana margin: Timing and significance of middle Paleozoic orogenesis in West Antarctica, *Tectonophysics special issue on Hot Orogens*, edited by D. Chardon, P. Rey, C. Teyssier, and D. Whitney. Submission date 10/30/2008.
- Smith, S. and Siddoway C., in prep 2008, Segmentation, growth, and internal structure of bedding-parallel thrust faults in layered sedimentary sequences: Garden of the Gods, Colorado. *Journal of Structural Geology*, expected submission date 12/30/2008.
- Siddoway, C., Stypula, M., Morin, P., Peterson, D., Malolepszy, Z., Wilson, D., Luyendyk, B.P., LaRue, M., 2008 in prep., GIS-based 3-D geological map of Marie Byrd Land, on-line dynamic GIS to be published in March 2009, Antarctic Geospatial Information Center (AGIC), University of Minnesota, [www.agic.umn.edu](http://www.agic.umn.edu).

#### Papers presented at national and international conferences.

N.B.: Student-co-authored papers are listed in the following section of the CV.

- \*McFadden, R., Teyssier, C., Siddoway, C.S., and Fanning, C.M., 2008, Evidence from the Fosdick Mountains, Antarctica for Rapid Cooling of Mid- to Lower Crustal Rocks during Cretaceous Intracontinental Extension of the East Gondwana Margin, *Geological Society of America Abstracts with Programs*, v. 40 (6), Paper no.
- Siddoway, C., McFadden, R., Teyssier, C., Fanning, C.M., and Vail, R., 2008, Characterization of melt-transfer to accumulation in a transcurrent zone using U-Pb SHRIMP geochronology, meso- and microstructures of granites, Fosdick Mountains, Antarctica, *Geological Association of Canada - Mineralogical Association of Canada, Abstracts*, v. 33, p. 158-9.

- Siddoway, C., R. McFadden, S. Saito, C. M. Fanning, F. Korhonen, C. Teyssier, and M. Brown, 2008, Consequences of 'hot orogenesis' for Cretaceous breakup of East Gondwana's active margin: Perspectives from West Antarctica, *Geophysical Research Abstracts*, v.10, EGU2008-A-08573.
- Korhonen, , Fawna J., Brown, M. and Siddoway, C.S., 2008, Constraints on the polymetamorphic evolution of the Fosdick migmatite dome, *Geological Association of Canada - Mineralogical Association of Canada, Abstracts*, v. 33, p. 87.
- \*McFadden, R., Teyssier, C., Siddoway, C., Fanning, C.M., 2008, Structural and rheological controls of km-scale melt transport and accumulation in a migmatite complex: Fosdick Mountains, West Antarctica, *Geological Association of Canada - Mineralogical Association of Canada, Abstracts*, v. 33, p. 108-109.
- Jones III, J. V. and C. Siddoway, 2008, Synchronous High Strain, Granulite Facies Metamorphism and A-type Magmatism at 1.4 Ga, Wet Mountains, Colorado, *Geophysical Research Abstracts*, v.10, EGU2008-A-09832.
- \*McFadden, R., Teyssier, C., Siddoway, C.S., and Fanning, C.M., 2007, Duration of melt-present to solid-state deformation in the South Fosdick detachment zone, Fosdick Mountains, West Antarctica, *Geological Society of America Abstracts with Programs*, v. 39 (6), Paper no.83-86.
- Korhonen, Fawna J., Brown, M. and Siddoway, C.S., 2007, Unraveling polyphase high-grade metamorphism and anatexis in the Fosdick migmatite dome, West Antarctica, using mineral equilibria modeling and in situ monazite geochronology, *Eos Trans. American Geophysical Union*, 88 (52), Fall Meet. Suppl., Abstract V23C-1554.
- Saito, S, Korhonen, F. J., Brown, M. and Siddoway, C.S., 2007, Contrasting Sources Of Granites In The Fosdick Migmatite Dome, West Antarctica, *Eos Trans. American Geophysical Union*, 88 (52), Fall Meet. Suppl., Abstract V51C-0723.
- Korhonen, F.J., M. Brown, and C.S. Siddoway, 2007, Polymetamorphic evolution of a Cretaceous gneiss dome, Fosdick Mountains, west Antarctica: insights into the breakup of Gondwana, *Frontiers in Mineral Sciences Joint Meeting*, 26–28 June 2007, University of Cambridge, Cambridge, UK.
- Siddoway, C.S., McFadden, R., Teyssier, C., Kruckenberg, S., and Haywood, J., 2006, Structural controls on melt transport paths and duration of deformation-induced melt migration, Fosdick Mountains, Antarctica, *Geological Society of America Abstracts with Programs* Vol. 38, No. 5, Paper 139-5.
- Siddoway, C.S., 2004, West Antarctica record of oblique convergence along the Cretaceous proto-Pacific margin of Gondwana, *Eos Trans. American Geophysical Union*, 85 (47), Fall Meet. Suppl., Abstract T41C-1244.
- Goldstein, Art, Siddoway, C.S., Fryxell, J., and 7 coauthors, 2004, Integrating classroom and lab projects with fieldwork and field trips: Results of a Teaching Structural Geology working group, *Geological Society of America Abstracts with Programs* Vol. 36, No. 5, Abstract No. 76399.
- Siddoway, C.S., 2004, Geodynamic significance of a middle Cretaceous gneiss dome, Fosdick Mountains, West Antarctica, in Brown, M., and Cesare, B., conveners, "Melting and the rheology of the crust and upper mantle: what significance for geodynamics?," 32<sup>nd</sup> International Geological Congress, August 20-28, Florence, Italy, Abstract 86-3.
- Siddoway, C.S., 2004, Structural and petrologic evidence in support of lateral flow and diapiric rise of partially molten crust, Fosdick Mountains, West Antarctica, 32<sup>nd</sup> International Geological Congress, August 20-28, Florence, Italy, Abstract 86-13.
- Siddoway, C. S., 2004, Record of Cretaceous extension in West Antarctica, and insights on breakup of Gondwana's Mesozoic active margin: *in* McPhie, J., and McGoldrick, P. (eds.), *Dynamic Earth: Past, present and future*, Abstracts 73: Geological Society of Australia [AGC 2004, Hobart, Tasmania], p. 186.

- Siddoway, C. S., Teyssier, C., Richard, S.M., and Kimbrough, D.L., 2003, Strike slip attachment hypothesis for Cretaceous exhumation of the Fosdick Mountains migmatite dome, Antarctica: Geological Society of America Annual Meeting (Seattle), Paper No. 195-10.
- Siddoway, C., 2003, The record of Cretaceous continental extension in western Marie Byrd Land (abstract for workshop and contribution to Geological Society of London special publication), TAPMOG workshop, September 5-6, 2003, Cambridge University.
- Siddoway, C., 2003, Structural evolution of the Ford Ranges, Marie Byrd Land, from brittle kinematic analysis, 9<sup>th</sup> International Symposium on Antarctic Earth Science, Potsdam, Germany, Programme and Abstracts, p. 306.
- Siddoway, C., Jones, J., Williams, M., Andronicos, C. L., Connelly, J., and Karlstrom, K., 2002, The Mesoproterozoic of the Wet Mountains, CO, Geological Society of America Abstracts with Programs, v. 34, no. 6, p. 181, Paper 80-8.
- Andronicos, C., Siddoway, C., and Carrick, T., 2002, Reconciling "anorogenic" plutonism with regional tectonics in southern Laurentia, v. 34, no. 6, p. 242, paper No. 106-4.
- Andronicos, C. L., Siddoway, C., and Carrick, T., 2002, Transensional shear zones in southern Laurentia, Implications for 1.4 Ga tectonics. Geological Society of America Abstracts with Programs Vol. 34, No. 3, p. 3.
- Andronicos, C. L., Siddoway, C., Carrick, T. L., 2001, The tectonic significance of 1.4 Ga transcurrent shear zones in the southwestern USA, *Eos Trans. American Geophysical Union*, 82 (47), Fall Meet. Suppl., Abstract T31E-12.
- Baldwin, S, Siddoway, C, Fitzgerald, P G, Fanning, C M, Luyendyk, B P, 2001, Marie Byrd Land Mylonites Record Onset of Continental Extension in West Antarctica. *Eos Trans. AGU*, 82(47), Fall Meet. Suppl., Abstract T51B-0874.
- Luyendyk, B P, Wilson, D S, Siddoway, C., 2001, Eastern Boundary of the Ross Sea Rift Located in Western Marie Byrd Land, Antarctica, *Eos Trans. AGU*, 82(47), Fall Meet. Suppl., Abstract T51B-0875.
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Collaborations/Current and over the past 4 years:

Robin Bell, Lamont Doherty Earth Observatory  
Mike Brown, University of Maryland  
Julie Bryce, University of New Hampshire  
Eric Erslev, Colorado State University  
C. Mark Fanning, Australian National University  
Amy Gaffney, L. Livermore National Lab

Jamey Jones, University of Arkansas.  
Fawna Korhonen, University of Maryland  
Robert Langridge, GNS Science, Wellington, New Zealand  
Kate Miller, University of Texas – El Paso  
Mike Petronis, University of New Mexico – Highlands  
Anne Sheehan, University of Colorado  
Christian Teyssier, University of Minnesota  
Steven Smith, University of Durham, UK.  
Basil Tikoff, University of Wisconsin  
Donna Whitney, University of Minnesota