

SARAH M. PRINCIPATO

Address:

Department of Environmental Studies
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Gettysburg College
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Education:

Ph.D. Geology, University of Colorado, Boulder, CO (2003)
Dissertation: "The Late Quaternary History of Eastern Vestfirðir, NW Iceland"
Advisor: John T. Andrews

M.S. Geology, University of Wisconsin, Madison, WI (1999)
Thesis: "The Quaternary Geology of Northern Sheboygan County, Wisconsin"
Advisor: David M. Mickelson

A.B. *magna cum laude* with high honor in Geology, Mount Holyoke College, South Hadley, MA (1997)
Thesis: "Application of Calcite-Dolomite Thermometry: Southern Grenville Province, Bancroft, Ontario"
Advisor: Steven R. Dunn

Positions:

Gettysburg College
Professor, Department of Environmental Studies, 2016 – present
Associate Professor, Department of Environmental Studies, 2009 - 2016
Acting Chair of Environmental Studies, Spring 2015
Chair of Environmental Studies, 2009 – 2012
Assistant Professor, Department of Environmental Studies, 2003 - 2009

University of Colorado, Boulder
Research Assistant, Institute of Arctic and Alpine Research, 2000-2003
Teaching Assistant, Department of Geological Sciences, 1999-2001
Scientific Crew Member, R/V *Marion Dufresne*, 1999

University of Wisconsin-Madison
Teaching Assistant, Department of Geology and Geophysics, 1997-1999
Research Assistant, Department of Geology and Geophysics, 1997-1998

Honors:

Dr. Robert E. Dutton, Class of 1946, Memorial Mentorship Award, Gettysburg College, 2016

Luther W. and Bernice L. Thompson Distinguished Teaching Award, Gettysburg College, 2009
Faculty Appreciation Award, Student-Athlete Advisory Committee, Gettysburg College, 2009
Waldrop Award, Department of Geological Sciences, University of Colorado, 2002
Women's Forum of Colorado Foundation, Inc., Scholarship Grant, 2001
Association for Women Geoscientists Graduate Student Award, 2001
University Fellowship from the Graduate School, University of Colorado, Boulder, 1999
Barry M. Goldwater Scholarship, 1996-1997

Grants Received:

Gettysburg College, Christian A. Johnson Endeavor Foundation, Course Development Grant in collaboration with Professor Salma Monani, Science and Stories of Climate Change in Scandinavia, 2015 (\$3500)

Gettysburg College, Research and Professional Development Grants
Reconstructing ice flow paths on Grímsey and Northern Iceland, 2016 (\$6453)
Climate change interpreted from glaciers and landforms on eastern Iceland, 2014 (\$6940)
Student-Faculty Research Presentations at the International Arctic Workshop, 2012b (\$1135)
Using GIS and landform analysis to reconstruct paleoclimate in NW Iceland, 2012a (\$5000)
Holocene Climate Change Interpreted from a Peat Bog in Maine, 2007 (\$4950)
Mussel Beds as Sea Level Indicators: A Pilot Study for Coastal Maine, 2006b (\$2500)
Introduction to Pollen Analysis: Short Course at University College London, 2006a (\$2650)
Landslides and Retreating Glaciers, NW Iceland, 2004 (\$7890)
Interaction between two ice caps, NW Iceland: A reconnaissance study, 2003 (\$8200)

Gettysburg College, Mellon Grants for Recently Tenured Faculty
What was the source of the ice? An Iceland Provenance Study, 2009 (\$7500)

Gettysburg College, Globalizing Faculty-Student Research, Course Development Grant, 2009 (\$2850)

Geological Society of America, Graduate Student Research Grant, 2000 (\$2500)

Sigma Xi Grants in Aid of Research, 2000 (\$800)

Bill Hiss Travel Grants, University of Colorado, 2000-2003 (amount varies)

UW-Madison, Department of Geology and Geophysics Research Grant,

Quaternary Geology of N. Sheboygan County, 1998 (\$1000)

Professional Activities:

Panel and Proposal Reviewer:

National Science Foundation Panels and mail-in proposal reviews
Natural Environment Research Council, UK
RANNIS, Icelandic Research Fund

Journal Reviewer

Arctic, Antarctic, and Alpine Research
Canadian Journal of Earth Sciences
Earth and Planetary Science Letters
Earth Science Reviews
Earth Surface Processes and Landforms
Geomorphology
Journal of Quaternary Science
Paleogeography, Paleoclimatology, Paleoecology
Quaternary Science Reviews
Shore and Beach

Other Professional Activities

Session Chair, T191. “Reconstructing Arctic Glaciers and Ice Sheets: Chronology, Geomorphology, and Climate Records.” Geological Society of America Annual Meeting, Baltimore, MD (Nov 2015)

Local Organizing Committee for the Northeast Geological Society of America Meeting in Lancaster, PA (March 2014)

Session Chair, “Glaciers, Sediments, and Landforms of Northeast North America and Beyond.” Northeast Geological Society of America Meeting in Lancaster, PA (March 2014)

External Reviewer for tenure and pre-tenure cases for faculty at other institutions

Masters Thesis Committee Member for Amanda Houts, University of New Hampshire

Research with undergraduate students:

Honors Thesis Students, Gettysburg College

Rachael Grube, 2015 – 2016, Identification and analysis of paleo-cirque glaciers on Tröllaskagi, Iceland

Heather Ipsen, 2014 – 2015, A morphometric analysis of cirques on east Iceland using GIS

Dori Gorczyca, 2014 – 2015, co-advised with Professor Salma Monani, Communicating climate change at Glacier National Park

Alyson Hampsch, 2012 – 2014, Testing evidence for fast ice flow in North Iceland

Alexis Moyer, 2012 – 2013, Reconstructing ice flow in Northern Iceland using streamlined landforms

Jessica Lee, 2012 – 2013, Using GIS to reconstruct paleo equilibrium-line altitudes from cirques in Northwest Iceland

Nikita LaCruz, 2012 – 2013, Chemistry/ES Senior Project co-advised with Professor Joe Gryzbowski, Assessing the impact of industrialization on lead levels in soils on the Gettysburg College Campus: A chemical and spatial analysis

Andrew Reed, 2009 – 2010, Holocene record of climate change from peat deposits in Maine, Goldwater Honorable Mention

Julie Markus, 2008 – 2009, Sedimentology and humification index of peat deposits in New York and Maine, Goldwater Scholar

Tess Barton, 2005 –2006, Holocene paleoclimate interpreted from peat deposits in northwest Iceland

Kristin Igusky, 2005 – 2006, Characteristics of diamicton from Vestfirðir and the mainland of Iceland: implications for provenance

Jeremiah Johnson, 2004 – 2005, Evaluating the spatial distribution of ice scour lakes in NW Iceland at the Last Glacial Maximum

Recent Independent Study Mentoring (non-thesis), Gettysburg College

Emily Duggan, 2015, Current Environmental Events in the Global Media

Athena Mandros, 2014, Using literature & history to understand mountain top removal

Greg Baron, 2010, Holocene climate change interpreted from Penobscot Bay, Maine

Field and Lab Research Assistants, Gettysburg College

Brittany Bondi (2017); Marion McKenzie (2017 - present); Lizzy Cooper, (2015 – 2016); Marjorie Howard (2014); Betsy Emmons (2013 – 2014); Christina Jasion, (2012); Alexis Moyer, (2012); Cole Rossiter, (2012); Elizabeth Rouillard, (2012); Rebecca Taormina, (2012); Brian Wooldredge, (2012); Mitchell Jones, (2010); Brittany Jones (2009 – 2010); Gregory Baron, (2009 – 2010); Tom Merce, (2007); Matt Shank (2006); Ali Vissichelli, (2006); Alexis Melusky (2003 – 2004); Meghan Flynn, (2003 – 2004)

Senior Thesis Students, University of Colorado:

Ryan Thomas, Late Quaternary history of Hunafloi, NW Iceland (2002)

Matt Thomas, Quaternary history of Isafjardardjup, NW Iceland (2001)

Senior Thesis Student, University of Wisconsin:

Ben Laabs, Lake Michigan Shoreline Bluffs (1998-1999)

Field Research Assistants, University of Iceland

Gudrun Eva Johannsdottir, (2000 – 2002); Hrafnhildur Hannesdottir, (2000 – 2001)

Publications:

(* denotes student co-author)

- Ipsen, H.A.*, **Principato, S.M.**, Grube, R.E.*, and Lee, J. F.* 2018. Spatial analysis of cirques from three regions in Iceland: Implications for cirque formation and palaeoclimate; *Boreas*. Vol. 47, 565-576. DOI: 10.1111/bor.12295
- Monani, S., **Principato, S.**, Gorczyca, D.*, and Cooper, E.* 2018. “Loving Glacier National Park *Online*: Climate Change Communication and Virtual Place Attachment” *In The Handbook of Climate Change Communication*, editors Walter Leal Filho et al. Netherlands: Springer Press.
- Spooner, I., **Principato, S.**, Hill, N., White, H.*, Dunnington, D., Neily, T., and Stolze, S., 2017 Late Holocene records of changing moisture regime from wetlands in southwestern Nova Scotia, Canada: Implications for wetland conservation and restoration. *Northeastern Naturalist*, vol. 24(3), 331 – 348. <https://doi.org/10.1656/045.024.0310>
- Principato, S. M.**, Moyer, A. N.*, Hampsch, A. G.*, and Ipsen, H. A.*, 2016, Using GIS and streamlined landforms to interpret palaeo-ice flow in northern Iceland. *Boreas*, vol 45, p. 470–482. doi: 10.1111/bor.12164
- Principato, S.M.**, and Lee, J. F.*, 2014, GIS analysis of cirques on Vestfirðir, northwest Iceland: implications for palaeoclimate. *Boreas*, vol. 43, p. 807–817. doi: 10.1111/bor.12075
- Carlson, A.E., **Principato, S.M.**, Chapel, D.M., and Mickelson, D.M, 2011, Quaternary Geology of Sheboygan County, Wisconsin: *Wisconsin Geological and Natural History Survey Bulletin 106*, 32p.
- Quillmann, U, Andrews, J. T., Jennings, A.E., Bendle, J., Jónsdóttir, H., Kristjánisdóttir, G.B., Lloyd, J., Ólafsdóttir, S., **Principato, S.**, 2009, Radiocarbon Date List XI: Radiocarbon Dates from Marine Sediment Cores of the Iceland, Greenland, and Northeast Canadian Arctic Shelves and Nares Strait. *Occasional Paper - Colorado University, Institute of Arctic and Alpine Research*, v. 59, 69 pp.
- Principato, S.M.**, and Johnson, J.*, 2009, Using a GIS to quantify patterns of glacial erosion on northwest Iceland: Implications for independent ice sheets, *Arctic, Antarctic, and Alpine Research*, vol. 41, p. 128-137.
- Principato, S.M.**, 2008, Holocene glacier fluctuations and sea level changes on eastern Vestfirðir, Iceland, *Boreas*, vol. 37, p. 132–145.

J.T. Andrews, J. Hardardóttir, J. Stoner, and **S. M. Principato**, 2008, Holocene sediment magnetic properties along a transect from Ísafjardardjúp to Djúpáll, Northwest Iceland, *Arctic, Antarctic, and Alpine Research*, vol. 40, p. 1- 15.

Principato, S.M., Geirsdottir, A., Johannsdottir, G., and Andrews, J.T., 2006, Late Quaternary glacial and deglacial history of eastern Vestfirðir, Iceland, using cosmogenic isotope (^{36}Cl) exposure ages and marine cores, *Journal of Quaternary Science*, vol. 21, no. 3, p. 271-285.

Principato, S.M., Jennings, A.E., Kristjansdottir, G.B., and Andrews, J.T., 2005, A comparison of diamicton units from the SW and N Iceland Shelf: Implications for the glacial history of Iceland, *Journal of Sedimentary Research*. vol. 75, no. 6., p. 968-983.

Carlson, A.E., Mickelson, D.M., **Principato, S.M.**, and Chapel, D.M., 2005, The genesis of the northern Kettle Moraine, Wisconsin: *Geomorphology*, vol. 67, p. 365-374.

Dunhill, G., Andrews, J.T., Kristjansdottir, G.B., Castañeda, I.S., Hagen, S., James, E., Vorren, T., Briner, J.P., Cooper, T.A., Hald, M., Jennings, A.E., **Principato, S.**, Weiner, N., Barber, D.C., Hall, F.R., Koc, N., Smith, L.M., and Williams, K., 2004, Radiocarbon date List X; Baffin Bay, Baffin Island, Iceland, Labrador Sea, and the northern North Atlantic, Occasional Paper - Colorado University, Institute of Arctic and Alpine Research, v. 56, 77pp.

Principato, S.M., 2004, X-Ray radiographs of sediment cores: a guide to analyzing diamicton. In Francus P. (ed). *Image analysis, sediments and paleoenvironments*. Kluwer Academic Publishers Dordrecht, The Netherlands, p. 165-185.

Andrews, J.T., and **Principato, S.M.**, 2002, Grain-size characteristics and provenance of ice-proximal glacial marine sediments (or why do we do grain-size analyses anyway?). In Dowdeswell, J.A. and O’Cofaigh, C. (eds). *Glacier influenced sedimentation at high latitude continental margins*, *Geological Society of London Special Publication 203*, p. 305-324.

Andrews, J.T., Geirsdottir, A., Hardardóttir, J., **Principato, S.M.**, Kristjansdottir, G.B., Helgadóttir, G., Sveinsbjornsdottir, A., Gronvold, K, and Drexler, J., 2002, Distribution, age, and geochemistry of the Saksunarvatn ($10.18 \pm$ cal ka) ash in marine, lake, and terrestrial sediments, NW Iceland, *Journal of Quaternary Science*, vol. 17, no. 8, p. 731-745.

Invited Seminars:

Using GIS to understand glacial history: Case studies from Northwest Iceland, University of Delaware (2014)

One year in with Obama: Is real change still on the agenda for America? Democracy for America Panel (2010)

Gettysburg 350: International day of climate action, Gettysburg Seminary (2009)

Lessons for a changing climate, Gettysburg College, Fall Honors Day Address (2009)

How icy was Iceland: Climate change since the Last Glacial Maximum, Frederick Community College (2007)

Glaciers in Iceland: the glacial history of Vestfirðir, NW Iceland, Amherst College, 5-College Iceland Symposium (2006)

The Science of Tsunami, Gettysburg College (2005)

How icy was Iceland? Climate change since the Last Glacial Maximum, Dickinson College (2004)

Abstracts and Conference Presentations:

(denotes student co-author)*

Bondi, B* and **Principato, S.** 2018. A quantitative analysis of cirques on Flateyjarskagi, North Iceland. 48th International Arctic Workshop Program and Abstracts, Boulder, CO.

Ebert, K., Hamré, M.*, Hovemyr, M.*, Häljestic, S. *, and **Principato, S.** 2018. Lake battle- the preparation of compatible lake datasets in GIS to use lake density as a possible proxy for ice sheet erosional impact on the Canadian and Fennoscandian shields. 48th International Arctic Workshop Program and Abstracts, Boulder, CO.

McKenzie, M.A.*, **Principato, S.M.**, Benediktsson, Í.Ö., Geomorphic evidence for a paleo-ice stream in Barðardalur, North Iceland. Geological Society of America meeting in Seattle, WA, Abstracts with Programs, vol. 49.

Ipsen, H.A.*, **Principato, S.M.**, Grube, R.E.*, and Lee, J. F.* 2017. Geographic variation of cirques on Iceland: factors influencing cirque morphology. 47th International Arctic Workshop Program and Abstracts, Buffalo, NY.

Houts, A.N.*, Licciardi, J.M., **Principato, S.M.**, Zimmerman, S.H., and Finkel, R.C., 2017. New constraints on the timing and pattern of deglaciation in the Húnaflói Bay region of northwest Iceland using cosmogenic ³⁶Cl dating and geomorphic mapping. 47th International Arctic Workshop Program and Abstracts, Buffalo, NY.

Gorczyca, D.*, **Principato, S.**, and Monani, S. 2016. Climate Change Communication Using Virtual Place Attachment at Glacier National Park, Montana, USA. Geological Society of America meeting in Denver, CO, Abstracts with Programs, vol. 48, Sept. 25 – 28, 2016.

Ebert, K., Hamré, M., Moa, and **Principato, S.M.**, 2016. Lake Density As A Measure Of Glacial Erosional Impact On Lowland Bedrock Terrain (Or Not). 46th International Arctic

Workshop Program and Abstracts, Institute of Arctic and Alpine Research (INSTAAR), University of Colorado at Boulder.

- Principato, S. M.**, Moyer, A.N.*, Hampsch, A. G.* and Ipsen, H.A.*, 2016. Geomorphic evidence for paleo-ice stream activity in northern Iceland. NE Geological Society of America meeting in Albany, NY, March 2016.
- Grube, R.E.*, Ipsen, H.A.*, and **Principato, S.M.**, 2016. Comparison of cirques in three regions of Iceland using GIS. NE Geological Society of America meeting in Albany, NY, March 2016.
- Houts, A.N.*, Licciardi, J.M., **Principato, S.M.**, Zimmerman, S.H., and Finkel, R.C., 2016. Reconstructing the glacial history of the Húnaflói Bay region in northwest Iceland using cosmogenic ³⁶Cl surface exposure dating. NE Geological Society of America meeting in Albany, NY, March 2016.
- Grube, R.E.* and **Principato, S. M.**, 2015. A quantitative analysis of cirques on Trollaskagi, Northern Iceland. Geological Society of America meeting in Baltimore, MD, Abstracts with Programs, vol. 47., November 1 – 4, 2015.
- Ipsen, H.A. * and **Principato, S. M.**, 2015. A Morphometric analysis of cirques on East Iceland using GIS. Geological Society of America meeting in Baltimore, MD, Abstracts with Programs, vol. 47., November 1 – 4, 2015.
- Principato, S. M.**, Moyer, A.N.*, and Hampsch, A. G.*, 2014. Geomorphic analysis of streamlined landforms in northern Iceland: Evidence for paleo-ice streams. Geological Society of America meeting in Vancouver, British Columbia, Abstracts with Programs, vol. 46. No. 6, p.229., October 19 – 22, 2014.
- Hampsch, A.* , **Principato, S. M.**, and Emmons, E.* , 2014, Using sedimentology and GIS analysis to interpret paleo-ice flow in northern Iceland. NE Geological Society of America meeting in Lancaster, PA, March 23-25, 2014
- Spooner, I., White, H. E.* , **Principato, S. M.**, Stolze, S., and Hill, N., 2014, Records of late Holocene moisture regime from wetlands in Nova Scotia, Canada. NE Geological Society of America meeting in Lancaster, PA, March 23-25, 2014
- Spooner, I., White, H.E.* , **Principato, S.**, Stolze, S. and Hill, N. 2014, Records of Late Holocene moisture regime from wetlands in Nova Scotia, Canada. The Atlantic Geoscience Society 40th Colloquium and Annual Meeting, Program with Abstracts. February 7-9, 2014. Wolfville, Nova Scotia. p.41
- Principato, S. M.**, Lee, J. F.* , and Hampsch, A.* , 2013. GIS analysis of cirques on Vestfirðir, northwest Iceland: Implications for paleoclimate. Geological Society of America meeting in Denver, CO, Abstracts with Programs, vol. 45.

- Principato, S.M.**, Reed, A.*, Markus, J.*, Baron, G.*, and Hampsch, A.*, 2013. A record of Holocene environmental change interpreted from peat in eastern Maine. NE Geological Society of America meeting in Bretton Woods, NH, March 18 - 20, 2013.
- La Cruz, N.* **Principato, S. M.**, 2013. Assessing the impact of industrialization on lead levels in soils on the Gettysburg College Campus: A Chemical and Spatial Analysis. Northeast Geological Society of America meeting in Bretton Woods, NH, vol. 45.
- Lee, J. F.* and **Principato, S.M.**, 2013. Using GIS to reconstruct paleo equilibrium-line altitudes from cirques in Northwest Iceland. Northeast Geological Society of America meeting in Bretton Woods, NH, vol. 45.
- Moyer, A.N.* and **Principato, S. M.**, 2013. Using GIS and streamlined landforms to interpret paleo-ice flow in Northern Iceland. Northeast Geological Society of America meeting in Bretton Woods, NH, vol. 45.
- Lee, J. F.* and **Principato, S. M.**, 2013. Using GIS to reconstruct paleo equilibrium-line altitudes from cirques in Northwest Iceland. 43rd International Arctic Workshop Program and Abstracts, Institute of Arctic and Alpine Research (INSTAAR), University of Colorado at Boulder, 165 pp.
- Moyer, A. N.* and **Principato, S. M.**, 2013. Using GIS and streamlined landforms to interpret paleo-ice flow in Northern Iceland. 43rd International Arctic Workshop Program and Abstracts, Institute of Arctic and Alpine Research (INSTAAR), University of Colorado at Boulder, 165 pp.
- Principato, S.M.**, Jasion, C. M.*, Moyer, A.N.*, Rossiter, C. D.*, Rouillard, E. G.*, Taormina, R.A.*, and Wooldredge, B. D.*, 2012, Physical Weathering at Devil's Den, Gettysburg National Military Park, PA. Geological Society of America meeting in Charlotte, NC, Abstracts with Programs, Vol. 44, No. 7, p.92.
- Principato, S.M.**, Jones, B. *, and Jones, M. *, 2010, Geomorphic evidence for fast ice flow south of Hunafloi, North Iceland. Geological Society of America meeting in Denver, CO, Abstracts with Programs, vol. 42, No. 5, p. 243.
- Reed, A.* and **Principato, S. M.**, 2010. Loss-on-ignition and humification of a peat core from Quoddy Head State Park, ME. Northeast-Southeast Geological Society of America meeting in Baltimore, MD March 21-23, 2009.
- Baron, G. *, **Principato, S.M.**, and Jones, B., 2010. Loss-on-ignition and humification index of peat deposits near Penobscot, ME: Implications for Holocene Climate. Northeast-Southeast Geological Society of America meeting in Baltimore, MD March 21-23, 2009.
- Principato, S.M.**, 2009, "Identifying Minerals and Meteorites: A Glacial Geologist in Environmental Studies". Geological Society of America Meeting, Portland, OR, October 2009

Principato, S.M. and Markus, J.T.*, 2009, Holocene environmental conditions interpreted from coastal mudflats and peat in Washington County, Maine. Northeast Geological Society of America Meeting in Portland, Maine. Abstracts with Programs, vol. 41.

Markus, J.T.* and **Principato, S.M.**, 2009, Sedimentology and humification index of peat deposits in New York and Maine, Northeast Geological Society of America Meeting in Portland, Maine. Abstracts with Programs, vol. 41.

Principato, S.M., 2007, Sedimentology and Humification of Peat Deposits on Northwest Iceland: Implications for Holocene Climate Variability, 37th International Arctic Workshop, Iceland.

Principato, S.M., and Barton, T.C.*, 2006, Holocene Climate Variability Interpreted from Peat Deposits on Northwest Iceland, Geological Society of America, Abstracts with programs, vol. 38.

Igusky, K.A.*, and **Principato, S.M.**, 2006, Characteristics of Diamicton from Vestfiridir and the mainland of Iceland: Implications for Provenance, Northeast Geological Society of America, vol. 38.

Barton, T.C.*, and **Principato, S.M.**, 2006, Sedimentology and Humification Analyses of Peat Deposits from Northwest Iceland, Northeast Geological Society of America, vol. 38.

Principato, S.M., 2005, Teaching Earth System Science to Environmental Studies Majors, Northeast Geological Society of America, GSA Abstracts with Programs, vol. 37.

*Johnson, J. S. and **Principato, S.M.**, 2005, Evaluating the spatial distribution of ice-scour lakes on northwest Iceland, NCUR Programs and Abstracts.

Principato, S.M. and Johnson, J. S.*, 2005, Geomorphic Evidence for Independent Icecaps on Northwest Iceland, Geological Society of America, Abstracts with Programs, vol. 37.

Principato, S.M., 2004, Holocene fluctuations of the Vestfiridir Icecap, NW Iceland. Geological Society of America, Abstracts with Programs, vol. 36.

*Johannsdottir, G., Geirsdottir, A., Olafsdottir, S., and **Principato, S.**, 2003, A tephra study of sediment cores and terrestrial sequences on the Vestfiridir Peninsula, NW Iceland; preliminary results. 33nd Arctic Workshop Programs and Abstracts, Tromso, Norway.

Principato, S.M., 2003, Using 36-chlorine ages and marine cores to constrain the Late Quaternary History of the Vestfiridir Peninsula, Iceland. 33nd Arctic Workshop Programs and Abstracts, Tromso, Norway.

Principato, S.M., Geirsdottir, A., Andrews, J.T., and *Johannsdottir, G., 2003, The deglacial

- history of eastern Vestfirðir, NW Iceland. Geological Society of America, Abstracts with Programs, vol. 35.
- Principato, S.M.**, and Geirsdóttir, A., 2002, Glacial geology of the Strandir and Isafjardardjup coastlines, NW Peninsula, Iceland, 25th Nordic Geological Winter Meeting, Abstract Volume.
- Principato, S.M.**, Geirsdóttir, A., and Andrews, J.T., 2002, Contrasting glacial geology of the Strandir and Isafjardardjup coastlines, NW Peninsula, Iceland, 32nd Arctic Workshop Programs and Abstracts.
- Geirsdóttir, A., Andrews, J.T., Miller, G.H., Olafsdóttir, S., **Principato, S.**, and Kristjansdóttir, G.B., 2002, Following the Late Weichselian retreat of the NW Iceland Ice Cap from shelf to land, Geological Society of America, Abstracts with Programs, vol 34.
- Principato, S.M.**, and Geirsdóttir, A., 2002, Glacial erosion patterns and moraine sequences on the Northwest Peninsula of Iceland, Geological Society of America, Abstracts with Programs, vol. 34.
- John T. Andrews, Jorunn Hardardóttir, Aslaug Geirsdóttir, Gudrun Helgadóttir, Joe S. Stoner, and **Sarah Principato**, 2002, Land/ocean interactions NW Iceland: sediment and sediment magnetic characteristics in the Isafjardardjup/Djupall/Blosseville Basin transect 36 to 0 cal BP. American Geophysical Union, Abstracts with Programs, Fall Meeting.
- Principato, S.M.** and Andrews, J.T., 2001, Interpreting the origin of diamicton units in marine cores from Iceland, 31st Arctic Workshop Program and Abstracts.
- Principato, S.M.**, 2001, Image analysis of five diamicton units: an approach to understanding the depositional environment of marine cores from the Iceland Shelf, Image Analysis, Sediments, and Paleoenvironments Workshop, Program and Abstracts.
- Principato, S.M.**, 2001, A multi-faceted approach to understanding the depositional environment of diamicton units from the Iceland Shelf, Geological Society of America, Abstracts with Programs, Vol. 33, No. 7
- Principato, S.M.**, 2000, Glacial Geology of Reykjarfjordur, NW Iceland, Geological Society of America, Abstracts with Programs, Vol. 32, No. 7
- Andrews, J.T. and **Principato, S.M.**, 2000, The Glacial Maximum Around Iceland: Neophytes' Impressions, EPILOGUE Meeting, Oregon Univ, Oct. 2000.
- Castañeda, I. S., and **Principato, S.M.**, 2000, Sedimentological Analyses of three piston cores from Hunafloi, North Iceland Shelf, 30th International Arctic Workshop, Programs and Abstracts, Institute of Arctic and Alpine Research, Univ. of Colorado at Boulder, xvi.& 179pp.

Principato, S.M., and Mickelson, D.M., 1999, Integration of GIS in surficial and depth to bedrock mapping in northeast Wisconsin, Geological Society of America, Abstracts with Programs, vol. 31, no. 7.

*Laabs, B. J., and **Principato, S.M.**, 1999, Comparison of three techniques for measuring fabric in till in northeast Wisconsin, Geological Society of America, Abstracts with Programs, vol. 31, no. 7.

Principato, S. M., Mickelson, D.M., Socha, B., and *Laabs, B. J., 1999, Contrasting glacial record between two formations in northeastern Wisconsin: North-central Geological Society of America, Abstracts with Programs, v. 31, no. 2.

Mickelson, D. M., Colgan, Patrick, M., **Principato, S. M.** and Cutler, Paul, 1999, Use of traditional geologic maps to constrain landform genesis and paleoglaciological modeling of the southern Laurentide ice sheet: North-central Geological Society of America, Abstracts with Programs, Abstracts with Programs, v. 31, no. 2.

*Laabs, B. J. and **Principato, S. M.**, 1999, Bluff stratigraphy of the Lake Michigan shoreline in northern Sheboygan County, Wisconsin: Geological Society of America, Abstracts with Programs, v. 31, no.2.

Colgan, P.M., and **Principato, S.M.**, 1998, Distribution of glacial landforms and sediments in Wisconsin and the Upper Peninsula of Michigan, an application of GIS to glacial geology, North-central Geological Society of America, Abstracts with Programs, v. 30, 2, p11.

Principato, S.M., and Dunn, S.R., 1997, Application of calcite-dolomite thermometry, southern Grenville Province, Ontario, Northeast Geological Society of America, Abstracts with Programs, v. 29, 1, p. 74

Published Geological Maps:

Carlson, A.E., **Principato, S.M.**, Chapel, D.M., and Mickelson, D.M, 2011, Quaternary Geology of Sheboygan County, Wisconsin: *Wisconsin Geological and Natural History Survey Bulletin 106*, 32p. Map of Quaternary Deposits of Sheboygan County, Wisconsin.

Principato, S.M., 1999, The Quaternary Geology of Northern Sheboygan County, WI, (7.5' quads mapped: Cleveland East, Cleveland West, School Hill, Kiel, Marytown, Ct. Cloud, Elkhart Lake, Franklin, Howards Grove, Sheboygan North submitted to the USGS EDMAP along with 1:100,000 scale map and cross sections)

Professional Memberships:

National Association of Geoscience Teachers, 2014 - present
American Association for the Advancement of Science, 2012- present
Earth Science Women's Network, 2012- present
American Geophysical Union, 2002- present

Association for Women Geoscientists, 2001-present
Geological Society of America, 1999-present
Sigma Xi, Member, 1997-present
Phi Beta Kappa Society, Member, 1996-present

Courses Taught:

Earth System Science
Natural Catastrophes and Geologic Hazards
Glaciers and Records of Climate Change
Geologic Disasters and Global Change
Geomorphology
Environmental Studies Senior Seminar
First Year Seminar: Geology of National Parks
Physical Geology
Environmental Geology
Introduction to Field Methods
Statistics for Geology and Geography Majors

Gettysburg College Governance:

2015 – present	Faculty Personnel Committee, Chair 2017-2018
2015 – present	NSF S-STEM faculty liaison for Environmental Studies
2015 – 2016	Curricular Efficiency Committee - Sustainable Excellence
2015 – 2016	Goldwater & Udall Campus Interviews, Nomination Committee
2015	Visiting Environmental Humanities Search Committee, Chair
2014	Marine Ecologist Search Committee, tenure track
2013 – 2014	Visiting Marine Ecologist Search Committee
2013	Environmental Studies Administrative Assistant Search Committee
2012	Environmental Scientist Search Committee
2011 – 2014	Faculty Advisor to Alpha Delta Phi
2010 – present	Eisenhower Institute- College Advisory Council
2010 – 2011	Ad Hoc Committee on Course Credit
2010 – 2011	Environmental Scientist Search Committee
2010; 2007; 2006	Sexual Assault Prevention Facilitator
2009 – 2010	Johnson Center for Creative Teaching, Advisory Board Member
2009	Alumni College Instructor
2009	Green Reading Series, Book Discussion Facilitator
2007 – 2008	Environmental Studies, Humanities Search Committee
2007 – 2009	Faculty Development Committee
2007	Faculty Council
2006 – 2007	Enhanced Learning Spaces Committee
2005 – present	Duke Marine Lab, MSEC representative for Gettysburg College
2005 – 2007	Interdisciplinary Studies Committee
2005 – 2006	Environmental Scientist Search Committee
2004 – 2008	Library Liaison

2004 – 2009 Faculty Advisor to Gettysburg Environmental Concerns
Organization
2004 – 2007 Technical Advisory Committee
2003 – 2004 Environmental Studies GIS Search Committee

Faculty Mentoring:

Gettysburg College, External Mentor to Faculty in Other Departments

Dr. Emily Besecker, Assistant Professor of Health Sciences

Dr. Sahana Mukherjee, Assistant Professor of Psychology

Dr. Kathy Berenson, Assistant Professor of Psychology (now tenured & promoted
to Associate Professor)

Dr. Shelli Frey, Assistant Professor of Chemistry (now tenured & promoted to
Associate Professor)

Pre-tenure and tenure review committee for Professor Beth Campbell Hetrick

Pre-tenure review committee for Professor Carol Rinke