

Meredith A. Kelly – Biographical Sketch

A. Professional Preparation

- Tufts University, Medford MA, Geological Sciences and Environmental Studies, B.S., May 1995
- University of Maine, Orono ME, Quaternary Studies, M.S., May 1999
- University of Bern, Switzerland, Geological Sciences, Ph.D., April 2003

B. Appointments

- January 2008-present, Assistant Professor, Dartmouth College, Hanover NH and Adjunct Research Scientist, Lamont-Doherty Earth Observatory of Columbia University (LDEO), Palisades NY
- October 2007-December 2008, Doherty Associate Research Scientist, LDEO, Palisades NY
- June 2004-September 2007, Postdoctoral Fellow, LDEO, Palisades NY
- May 2003-May 2004, University Postdoctoral Fellow, The Ohio State University, Columbus OH
- May 1999-April 2003, Research Assistant, Institute for Geology, University of Bern, Switzerland
- September 1998-May 1999, Teaching Assistant, Department of Geological Sciences, University of Maine, Orono ME
- June-August 1998, Field Geologist, Maine Geological Survey, Augusta ME
- September 1996-May 1997 and September 1997-May 1998, Research Assistant, Institute for Quaternary Studies, University of Maine, Orono ME
- September 1994-May 1995 and September 1993-May 1994, Teaching Assistant, Department of Geology, Tufts University, Medford MA
- June-August 1994, Field Assistant, U.S. Geological Survey, Reston VA

C. Publications

Publications most closely related to the proposed project

Kelly MA, Lowell TV, in press. Local glaciation in Greenland during late-glacial and Holocene time, *Quaternary Science Reviews*.

Kelly MA, Lowell TV, Hall BL, Schaefer JM, Finkel RC, Goehring BM, Alley RB, Denton GH, 2008. A ¹⁰Be chronology of lateglacial and Holocene mountain glaciation in the Scoresby Sund region, east Greenland: implications for seasonality during lateglacial time. *Quaternary Science Reviews* 27, 2273-2282. Doi:10.1016/j.quascirev.2008.08.004.

Kelly MA, Ivy-Ochs S, Kubik PW, von Blanckenburg F, Schlüchter C, 2006. Chronology of deglaciation based upon ¹⁰Be dates of glacial erosional features in the Grimsel Pass region, central Swiss Alps. *Boreas* 35, 634-643.

Kelly MA, Kubik PW, von Blanckenburg F, Schluechter C, 2004. Surface exposure dating of the Great Aletsch Glacier Egesen moraine system, western Swiss Alps, using the cosmogenic nuclide ¹⁰Be. *Journal of Quaternary Science* 19, 431-441.

Kelly MA, Buoncristiani J-F, Schluechter C, 2004. A reconstruction of the last glacial maximum (LGM) ice-surface geometry in the western Swiss Alps and contiguous Alpine regions in Italy and France. *Eclogae geologicae Helvetiae* 97, 57-75.

Other significant publications

Kelly MA, Denton GH, Hall BL, 2002. Late Cenozoic paleoenvironment in southern Victoria Land, Antarctica, based on a polar form of glaciolacustrine drift in western Victoria Valley. *Geological Society of America Bulletin* 114, 605-618.

Ridge JC, Canwell BA, Kelly MA, Kelley SZ. 2001. An atmospheric ¹⁴C chronology for late Wisconsinan deglaciation and sea-level change in eastern New England using varve and paleomagnetic records. In: Weddle TK, Retelle MJ, eds., Deglacial History and Relative Sea-Level Changes, Northern New England and Adjacent Canada. Boulder, Colorado, *Geological Society of America Special Paper* 351, 171-189.

Schluechter C, Kelly MA. 2000. Das Eiszeitalter in der Schweiz: IGCP-378. *Stiftung Landschaft und Kies*, Aarborg 32, CH-3628 Uttigen.

D. Synergistic Activities

At LDEO:

- Convened session “Progress in Quaternary Geochronology in Polar Regions” at AGU Fall Meeting, 2008.
- Convened session “Climate Change in Greenland: Past and Present” at AGU Fall Meeting 2007.
- Presented LDEO Public Lecture “Climate Change in Greenland”, April 2007.
- Organized Cosmogenic Nuclide Group presentations for LDEO Open House (2006, 2007).
- Advised Columbia graduate student for Master’s thesis “Glacier response to climate change: the Juneau Icefield, Alaska” and advising Columbia graduate student for Oral’s paper “Dating terraces in Greenland using cosmogenic nuclides” (2005-2009).
- Advised high school student for project “Glacial geology of Mamaroneck, NY” (2006-2007).
- Mentored LDEO summer intern students (2005, 2006).
- Participated in Comer Abrupt Climate Change Roundtable, Palisades NY (2004, 2005, 2007), and Comer Abrupt Climate Change meeting, Soldiers Grove WI (2007, 2008).
- Active member of AGU, GSA and Sigma Xi.

At The Ohio State University:

- Organized Byrd Polar Research Center seminar series (2003, 2004).

At the University of Bern, assisted with the following programs:

- Swiss Polar Research Summer School excursion to the Great Aletsch Glacier organized by the Institute for Climate and Environmental Physics, University of Bern, Switzerland (2002); “Geological Excursion to the Flüelalpass: Ordovician Gneisses to Quaternary Geology”, Goldschmidt Conference, Davos (2002); Quaternary Environments of the Eurasian North (QUEEN) meeting and field trip, Spiez (2002); National Oceanic and Atmospheric Administration (NOAA) Panel on Abrupt Climate Change meeting and field trips, Zermatt (2000); DEUQUA (German-speaking Quaternary Association) annual meeting and field trips, Bern (2000); Edited the field trip manual: Kelly M, Linden U, Schluetcher C. 2000. DEUQUA 2000: Eiszeitalter und Alltag, Exkursionsführer. Bern: Geologisches Institut, 172 p.

E. Collaborators

Dr. Richard Alley, Pennsylvania State University

Dr. Wallace Broecker, LDEO

Dr. Jean-Francois Buoncristiani, University of Burgundy, France

Dr. George Denton, University of Maine (M.S. advisor)

Dr. Robert Finkel, Lawrence Livermore National Laboratory

Dr. Timothy Fisher, University of Toledo

Dr. Brenda Hall, University of Maine

Dr. Susan Ivy-Ochs, ETH Hoenggerberg, Switzerland

Dr. Michael Kaplan, LDEO

Dr. Peter Kubik, ETH Hoenggerberg, Switzerland

Dr. Joseph Licciardi, University of New Hampshire

Dr. Thomas Lowell, University of Cincinnati

Dr. Ray Pierrehumbert, University of Chicago

Dr. John Ridge, Tufts University (B.S. advisor)

Dr. Vincent Rinterknecht, University of St. Andrews, Scotland

Dr. Joerg Schaefer, LDEO

Dr. Christian Schluetcher, University of Bern, Switzerland (Ph.D. advisor)

Dr. Bruno Tremblay, McGill University

Dr. Friedhelm von Blanckenburg, University of Hannover, Germany

Advisees

Ms. Alison Criscitiello, Master’s degree student, Columbia University

Mr. Brent Goehring, Graduate student, Columbia University

Ms. Mikah McCabe, undergraduate student, Barnard College

Ms. Rebecca Steinberg, undergraduate student, Barnard College