

CURRICULUM VITAE



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Citizenship: United States of America

Married: Roger O. Grette, Sept. 1983

Children: Karl O. Grette, Oct. 1990;
Erik W. Grette, Sept. 1993

EDUCATION

Albion College, Albion, Michigan, B.A., Geology, *Magna cum laude*, 1976

University of Colorado, Boulder, Colorado, M.Sc., Geology, August, 1980

Masters Thesis: Stratigraphy, Amino Acid Geochronology, and Genesis of Quaternary Sediments, Broughton Island, S.E. Baffin Island, Canada (J.T. Andrews, Advisor)

University of Colorado, Boulder, Colorado, PhD, Geology, May, 1985

Dissertation: Marine Stratigraphy and Amino Acid Geochronology of the Gubik Formation, western Arctic Coastal Plain, Alaska (G.H. Miller and D.M. Hopkins, Advisors)

EMPLOYMENT HISTORY

Post-doctoral Research Fellow, Department of Quaternary Geology, Geomorphology, and Marine Geology, University of Bergen, Norway, November 1983 - December 1984.

Post-doctoral Research Fellow, Department of Geology, University of Alberta, Edmonton, Alberta, and Geological Survey of Canada, May 1985-May 1987.

Assistant Professor of Glacial Geology, Department of Geology and Geography, University of Massachusetts, Amherst, September, 1987 to 1993.

Visiting Professor, Alaska Quaternary Center, University of Alaska Museum, Fairbanks, Alaska, January - June 1990.

Associate Professor of Glacial Geology, Department of Geosciences, University of Massachusetts, Amherst, September, 1993 to 2001.

Associate Department Head of Geosciences, University of Massachusetts, Amherst, September, 1998 to 2000; 2001-2004.

Acting Department Head of Geosciences, University of Massachusetts, Sept 2000-Aug 2001

Professor Department of Geosciences, University of Massachusetts, Amherst, September, 2001 to present.

HONORS

- 2002 Elected Fellow, Geological Society of America
- 2003 Albion College Distinguished Alumni Award

GRANTS AND AWARDS

- 1976 W.A Tarr Award, Senior Geology Award, Albion College
- 1980 Arthur Campbell Award, Geology Department, C.U., \$400
- 1980 Waldrop Award, Geology Department, C.U., \$1000
- 1981 Harold T. Sterns Fellowship, Geological Society of America, \$1000
- 1981 J. Hoover Mackin Award, Geological Society of America, Quaternary Geology and Geomorphology Division, \$500
- 1981 Exxon Student Research Grant, Geology Department, C.U., \$500
- 1981 Outstanding Woman Geoscientist Award, Association of Women Geoscientists, Denver Chapter
- 1981 *National Science Foundation* Dissertation Improvement Grant, Division of Polar Programs, 2 years, \$4,860
- 1980-81 Several Grants-In-Aid of Dissertation Research from: Arctic Institute of North America, \$2800; Sigma Xi Research Council, \$525; Explorers Club, \$1,200; Geological Society of America, \$530.
- 1983 Nominated for University of Colorado Research and Creative Work Award by the Geology Faculty, University of Colorado
- 1984 Royal Norwegian Council for Science and Technology Post-doctoral Fellowship for North Sea Quaternary Stratigraphy, Bergen, Norway. 1985-87 University of Alberta/Geological Survey of Canada Post-doctoral Fellowship for Quaternary Stratigraphy and Geochronology of the Canadian Beaufort Sea
- 1987-89 *National Science Foundation*, Division of Polar Programs, Grant 87-14671, Correlation and Chronology of Marine Transgressions, western Alaska, \$96,075. (Co-PI D.M. Hopkins, University of Alaska, \$43,360)
- 1990-92 *National Science Foundation*, Division of Polar Programs, Grant 89-22980, Stratigraphy, Extent, and Paleoclimatic implications of middle Pleistocene Glacial/Interglacial Conditions in Coastal NW Alaska, \$127,243.
- 1991-94 *National Science Foundation*, Division of Polar Programs, Grant 90-15234, Late Cenozoic History of the Bering Strait, \$185,557.(Co-PI D.M. Hopkins, University of Alaska, \$169,548).
- 1992-94 National Park Service, Anchorage, Alaska. Cooperative Research Agreement Subcontract, Surficial Geology of northern Bering Land Bridge National Preserve and Paleoclimate history of North Killeak Lake, \$45,000
- 1995-98 *National Science Foundation*, Division of Polar Programs, Grant 94-23730, Collaborative Research: Pleistocene Glacial Ice History and Interglacial Paleoclimatic History in the NE Russian Arctic -- comparisons with Alaska, \$350,000, with significant contributions from the National Park Service.
- 1995-97 University of Massachusetts Faculty Research Grant, Increased age resolution using D/L aspartic acid in Arctic mollusks, \$5,000.

- 1997-98 *National Science Foundation*, Division of Atmospheric Sciences, Grant 96-15768, The Paleoclimatic record of El'gygytgyn Lake, NE Russia: a pilot study, \$66,982.
- 1998-99 Alfred Wegener Institute, Potsdam, Germany, Matching funds toward collaborative Research of El'gygytgyn Lake, NE Russia, \$17,500
- 1997-98 Co-PI on *National Science Foundation* workshop, Beringian Paleoenvironments, with Scott Elias, University of Colorado, Sept 20-22, 1997 \$60,128 (UMass portion \$7700)
- 2000-01 *National Science Foundation* Earth System History, Atmospheric Sciences, Grant 99-05813, Paleoclimate Record of El'gygytgyn Lake, \$298,663.
- 2000-02 *National Science Foundation* Arctic Natural Sciences, Late Pleistocene Glacial and Sea Level History of Wrangel Island, Northeast Siberia, Co-PI with Pat Anderson, University of Washington, and post-doc Lyn Gualtieri. (most funds at UW)
- 2001-2002 International Continental Drilling Program Science Workshop Funding for Science and Planning at El'gygytgyn Crater Lake, \$48,000
- 2001-04 *National Science Foundation* Arctic Natural Sciences, "Marine Climate and Relative Sea Level Across Central Beringia: Collaborative Research" with Lloyd Keigwin and Neal Driscoll, Woods Hole. WHOI: \$655,177; UMASS: \$201,516,
- 2004 Pre proposal to International Continental Drilling Program (ICDP) Proposal: Status of Planning and Progress toward Scientific Drilling at El'gygytgyn Crater Lake, Northeast Siberia, Russia, \$3.4 million; in collaboration with German, Russian and Austrian colleagues. JBG lead PI. ICDP Executive response in June was a green light to continue planning. Full proposal due Jan 15, 2005
- 2003-2004 National Science Foundation Arctic Natural Sciences and Paleoclimate Programs, "Proxy development for interpreting the paleoclimate record from El'gygytgyn Crater Lake, \$99,300.
- 2003-2006 National Science Foundation Arctic Natural Sciences/ATM. Svalbard REU Program, UMass Senior Investigator (Mt. Holyoke lead institution with Hampshire College, Bates College, and Northern Illinois University)
- 2005-2010 International Continental Drilling Program (ICDP) Full Proposal: Scientific Drilling at El'gygytgyn Crater Lake, Northeast Siberia, Russia, Funded \$2.2 M contribution for Drilling and Logistics; in collaboration with German, Russian and Austrian colleagues. JBG is US Chief Scientist.
Full funding for Lake El'gygytgyn Logistics from all sources, \$10.2 M
- 2006-2010 National Science Foundation Earth Sciences, Collaborative Research: Millennial Scale Arctic Climate Change for the last 3.6 My: Scientific Drilling at Lake El'gygytgyn, NE Russia, (JBG lead, co-PIs are Laurie Brown and Steve Petsch) Award# 0602471, \$1,418,562 (science funding only)
- 2007-2012 National Science Foundation Arctic Natural Sciences #0649006. Svalbard REU Program at Lake Linne and Ny Alesund, UMass Senior Investigator (lead institution Hampshire College, with Mt. Holyoke, Bates College, and Northern Illinois University); \$924,974 for program; UMass #54,860.
- 2007-2009 National Science Foundation Division of Research on Learning in Formal and Informal Settings (DRL), IPY STEM Polar Connections, (Co-PI with Mort Sternhiem). Award 0732945, \$597k.

PROFESSIONAL ORGANIZATIONS

American Geophysical Union	American Quaternary Association (Sec. 1990-98; Pres Elect 2002-2004; President 2004-2006)
Arctic Institute of North America	Association of Women Geoscientists
Canadian Quaternary Association	Geological Society of America
International Glaciological Society	Sigma Xi IGBP PAGES (chairman 2003-2008)

PROFESSIONAL SOCIETY APPOINTMENTS AND BOARDS

1988--90 Elected Panel Member, GSA Quaternary Geology and Geomorphology Division

1990-- Editorial Board Member of the journal *Quaternary International*.

1990--98 Elected Secretary, American Quaternary Association

1991--92 *National Science Foundation*, Division of Polar Programs, Earth Sciences Proposal Review Panel Member.

1996 -- *National Science Foundation*, OPP Arctic Interdisciplinary Panel Member

1994--96 Elected non-PI Representative to NSF Arctic System Science Council

1996-- Editorial Board Member of the journal *Quaternary Science Reviews*

1995--97 Standing Advisor to U.S. Arctic Research Commission

1996--98 U.S. Arctic Research Commission Logistics Joint Task Force

1997-- Editorial Advisor of the journal *Arctic*

1997--99 *National Science Foundation* Earth System History, Standing Panel Member

1998 -- Member of Writing Task Force for *National Science Foundation* PARCS *Paleoenvironmental Arctic Sciences* document

1998--01 Elected, NSF PALE (Paleoclimatology of Arctic Lakes and Estuaries) Science Steering Committee now redesigned into NSF PARCS Paleoenvironmental Arctic Sciences.

1999-00 U.S. Chair, Scientific Delegation to Svalbard for *National Science Foundation*, Shared Norwegian/U.S. Scientific Collaborations and Logistical Platforms, August 16-19, 1999.

1998--00 Elected Panel Member, GSA Quaternary Geology and Geomorphology Division

1999--01 *National Science Foundation* Antarctic Glaciology & Geophysics Joint Panel

2000--02 Member, IGBP-PAGES (Past Global Changes) International Science Steering Committee

2000--02 Member, NSF Earth System History Science Steering Committee

2000--03 Member, NSF New Arctic Logistics Task Force under Simon Stephenson.

2002-2005 Member, Scientific Advisory Group to the Barrow Arctic Research Consortium (BASC).

2002-- 2008 USA representative to the International Continental Drilling Program Subcommittee on Lake Drilling.

2002-04 President-Elect, American Quaternary Association (vice President)
2002-04 Member, NSF Office of Polar Programs Advisory Committee,
(http://www.nsf.gov/od/opp/opp_advisory/start.htm).
2003-2004 Vice Chair of International Geosphere-Biosphere Program-PAGES (Past
Global Changes) Science Steering Committee
2003-4 NSF Earth System History (ESH/MESH) Steering Committee member.
2004-2006 President, American Quaternary Association
2004-2009 Chairman of International Geosphere-Biosphere Program-PAGES (Past
Global Changes) Science Steering Committee.
<http://www.pages.unibe.ch/contact/people.html>
2003-2008 US representative on the Science Advisory Group of the International
Continental Drilling Program, Potsdam, Germany, on behalf of the National
Science Foundation.
2007-present External Advisory Committee to LacCore, University of Minnesota.
2008-present Member of the Polar Research Board, National Academy of Sciences.

SYMPOSIUM/WORKSHOP CONVENOR, ORGANIZER

Co-Chairman of Quaternary Dating Methods Special Session, INQUA Congress, in
Ottawa, Canada, August 1987. (with Dr. Nathaniel Rutter, University of Alberta).

Co-chairman of a workshop "Tertiary/Early Pleistocene Stratigraphy and Paleoclimate of
the Arctic Regions", October 15-17, 1987, in Denver, Colorado, (with Drs. John V.
Matthews, Jr, Geological Survey of Canada, and Charles Schweger, University of
Alberta).

Co-Chairman, with Scott Elias, NSF-sponsored workshop on "Beringian
Paleoenvironments", Sept. 20-22, 1997, Florrisant, CO, The Nature Place, 100
participants.

Leader and Organizer, 63rd Annual Friends of the Pleistocene Field Conference, June 2-4,
2000, New Drainage History for Glacial Lake Hitchcock, \$8000 budget with over 100
participants.

Chairman, International Continental Drilling Program Workshop on Science and Research
Plans for Lake El'gygytgyn, Nov. 10-12, 2002, in Amherst MA., Lord Jeffery Inn, 25
participants.

Co-convenor, Global Change and Paleoenvironments sessions/working groups, with Gerald
Haug, International Continental Drilling Program, March 30 April 1, 2005, Potsdam
Germany.

Invited session chair, U.S. Climate Change Synthesis and Assessment (CCSP 1.2) Past
climate variability and change in the Arctic and at high latitudes: Multiagency
Scoping Workshop May, 10-11, 2005, USGS, Denver.

LECTURE INVITATIONS

University of Delaware	Dec. 1987	Univ. Courses on Svalbard, Norway	Oct. 1996,
Bates College	Mar. 1988	Nov. 1997, Nov. 1998, Oct. 1999	
University of Alberta	Aug. 1988	University of Bergen	Nov. 1996
University of Connecticut	Fall. 1988	Norwegian Geological Survey	Nov. 1996
Univ. Northern Illinois	Oct. 1989	North Dakota State University	Oct. 1997
Lamont-Doherty, Columbia Univ.	Dec. 1989	Massachusetts Inst of Technology	Oct. 1999
University of Alaska	Apr. 1990	University of Nebraska	Oct. 2000
U.S. Geological Survey	May, 1990	Williams College	Nov. 2000
University of Vermont	Dec. 1990	University of Alaska Fairbanks	Aug, 2002
Quebec Geoscience Center	Mar. 1991	University of Minnesota	Mar, 2003
University of North Dakota	Apr. 1991	NE Assoc of Engineering Geologists	Feb. 2004
Rutgers University	Oct. 1992	Brown University	Apr. 2004
Colgate College	Mar. 1993	Wesleyan University	Dec. 2004
University of Maine	May 1993	University of Maine	Mar 2006
Mt. Holyoke College	May, 1994	University of Cincinnati	April 2006
University of Nebraska	Oct. 1994	Boston College	Jan 2007
Colby College	Feb. 1996,	Northern Illinois Univ	April 2007
April 2005		Assoc Women Geoscientists	Oct. 2007
Smith College	Mar. 1996	Univ of Bern/ProClim	Mar 2008
Boston University	Apr. 1996	Lamont-Doherty, Columbia	April 2008
Syracuse University	Apr. 1996	Arctic Summit Week April Russia	2008
		Greensboro Day Sch Public Lecture	Feb 2009

FIELD EXPERIENCE

Two field summers in 1978 and 1979 along the northeast coast of Cumberland Peninsula, Baffin Island, Canada, on foot and by freighter canoe mapping Quaternary sediments and describing stratigraphic sections. During the summers of 1980 and 1981, worked 150 km of the Arctic coast of northern Alaska on foot and by Zodiak west of Barrow to Wainwright, later using a helicopter to extend the field mapping and stratigraphic work over a field area of 28,700 square km from Wainwright down to Cape Beaufort and west to the Meade River. In early 1984, participated on a 7-day research cruise of the University of Bergen, Norway, conducting seismic studies of Quaternary sediments in several fjords along western Norway. Recent studies in the Beaufort Sea have included participation in joint industry/government coring projects from platforms through the sea ice and man-made ice islands in March, 1985, and February, 1986. Likewise this research involved core-logging and sampling of Quaternary sediments on a 5 week joint industry/government geotechnical drilling program in 1985, and 2 weeks assisting with shipboard government geophysical surveys in September of 1986. Since 1987 field work in western and northwestern Alaska has involved mapping on foot or by inflatable boat in remote coastal areas of Seward Peninsula, Kotzebue Sound (1988, 1989, 1991, 1992 1996; similar work is ongoing in northeastern Russia (1991, 1992, 1995, 1996). Led major expedition for lake coring in Eastern Siberia, May 1998; most recent field work on Lake El'gygytyn Crater completed in July-Aug-Sept. 2000; and summer 2003. Field work on Wrangel Island in the East Siberian Sea with Lyn Gualtieri in summer 2001. Co-PI on two three-week science cruises of the USCGC Healy,

summer 2002. Biggest logistical effort of my career is in organizing the \$10 M Lake El'gygytyn Drilling Program for 2008-2010 in North East Russia with German, Russian and Austrian colleagues. Local field work ongoing in the Connecticut Valley, Massachusetts

GENERAL RESEARCH INTERESTS

Research is concerned with late Cenozoic marine and non-marine stratigraphic problems in Arctic regions and in regional correlations and paleoclimate reconstructions, especially across Arctic North America and eastern Russia. Long-range research interests are in the paleogeography and sea level history of the Bering Strait region and seas, the circum- Arctic coast, Arctic climate evolution, deglacial history of New England, and in the development of better chronostratigraphic methods combining a number of geochronological techniques.

RECENT UNIVERSITY COMMITTEES & Other SERVICE

Member, Provost Search Committee, Jan-May 2004.

Past Standing Member, Department Faculty Senate Representative and Rules Committee of Faculty Senate

Member, Awards Committee for College of Natural Sciences and Mathematics, in consultation with Assoc Dean Gordon Wyse.

Member and past chair, Faculty Senate Research Library Council.

Standing Member, Board of Trustees of the Friends of the Library.

University Representative, Arctic Research Consortium of the United States. Annual.

Member, Search Committee for Dean of NSM, Spring, 2005.

Member, University Convocation Nomination Committee Summer 2005

Member, Natural Sciences and Mathematics Proactive Awards Committee since April 2005

REFEREED PUBLICATIONS (in chronological order)

Journals and Monographs

Brigham, J.K., 1983, Stratigraphy, amino acid geochronology, and correlation of Quaternary sea level and glacial events, Broughton Island, Arctic Canada, *Canadian Journal of Earth Science*, v.20, n.4, 577-598.

Brigham, J.K., 1983, Intrashell variations in amino acid concentrations and isoleucine epimerization ratios in fossil *Hiatella arctica*, *Geology*, v.11, 509-513.

Mode, W.N., Nelson, A.R., and **Brigham, J.K.**, 1983, A facies model of Quaternary glacial-marine cyclic sedimentation along eastern Baffin Island, Canada, *In* Molnia, B.F., ed., *Glacial-Marine Sedimentation*, Plenum Publishing Co., New York, p. 495-533.

Sejrup, H.P., Miller, G.H., **Brigham-Grette, J.**, Lovlie, R., and Hopkins, D.M., 1984, Amino acid epimerization implies rapid sedimentation rates in Arctic Ocean cores, *Nature*, v.310, 772-775.

- Carter, L.D., **Brigham-Grette, J.**, Marincovich, Jr., L., Pease V.L., and Hillhouse, U.S., 1986, Late Cenozoic Arctic Ocean Sea Ice and Terrestrial Paleoclimate, *Geology*, v.14, p. 675-678.
- Miller, G.H., Jull, A.J.T., Linick, T., Sutherland, D., Sejrup, H.P., **Brigham, J.K.**, Bowen, D.Q., and Mangerud, J., 1987, Racemization derived late Devensian temperature reduction in Scotland, *Nature*, V. 326, n. 6113, p. 593-595.
- Sejrup, H.P., Aarseth, I., Ellingsen, K.L., Lovlie, R., Reither, E., Bjorklund, K., **Brigham-Grette, J.**, Jansen, J., and Stoker, M., 1987, Quaternary Stratigraphy of the Fladen Area, Central North Sea: A multidisciplinary approach, *J. of Quaternary Science*, V.1, n.1, p. 35-58.
- Miller, G.H., and **Brigham-Grette, J.**, 1989, Amino acid Geochronology: Resolution and Precision in Carbonate Fossils, IN, N. Rutter and J. Brigham-Grette and N. Catto, guest eds., "Applied Aspects of Quaternary Geochronology", *Quaternary International*. v. 1, p. 111-128.
- Rutter, N.W., **Brigham-Grette, J.**, and Catto, N. Editors, 1989, "Applied Aspects of Quaternary Geochronology", proceedings volume from the 1987 INQUA Congress Special Session No.29. *Quaternary International*, vol. 1, 166pg.
- Sejrup, H.P., Nagy, J., and **Brigham-Grette, J.**, 1989, Foraminiferal stratigraphy and amino acid geochronology of Quaternary Sediments in the Norwegian Channel, northern North Sea. *Norsk Geologisk Tidsskrift*, v. 69, 111-124.
- Blasco, S.M., Fortin, G., Hill, P.R., O'Connor, M.J., and **Brigham-Grette, J.**, 1990, The late Neogene and Quaternary Stratigraphy of the Canadian Beaufort Shelf, IN A. Grantz, L. Johnson, and J.F. Sweeney, eds., The Arctic Ocean Region, V. L, Boulder, Colorado: *Geological Society of America, The Geology of North America*, p.459-490.
- Dinter, D., Carter, L.D., and **Brigham-Grette, J.**, 1990. Late Cenozoic Geologic Evolution of the Alaskan North Slope and adjacent continental shelves. IN A. Grantz, L. Johnson, and J.F. Sweeney, eds., The Arctic Ocean Region, V. L, Boulder, Colorado: *Geological Society of America, The Geology of North America*, p.459-490.
- Huston, M.M., **Brigham-Grette, J.**, and Hopkins, D.M., 1990, Paleogeographic significance of middle Pleistocene glaciomarine deposits on Baldwin Peninsula, Northwest Alaska, *Annals of Glaciology*, v. 1, p. 111-114. (Huston's master's thesis under JBG)
- Kaufman, D.S., Walter, R.C., **Brigham-Grette, J.**, and Hopkins, D.M., 1991, Age of the Nome River (middle Pleistocene) glaciation, northwestern Alaska. *Quaternary Research*, v. 36, p.277-293.
- Brigham-Grette, J.** and Carter, L.D., 1992, Pliocene marine transgressions of northern Alaska: Circumarctic Correlations and Paleoclimate, *Arctic*, v.43(4), p.74-89.
- Hamilton, T.D., and **Brigham-Grette, J.**, 1991, The last interglaciation in Alaska: Stratigraphy and paleoecology of potential sites, *Quaternary International*, v. 10-12. p. 49-71
- Kaufman, D.S., and **Brigham-Grette, J.**, 1993. Aminostratigraphic correlations and paleotemperature implications, Pliocene-Pleistocene high sea level deposits, northwestern Alaska. *Quaternary Science Reviews*. vol. 12, 21-33.

- Aber, J.S., Bluemle, J.P., **Brigham-Grette, J.**, Dredge, L.A., Sauchyn, D.J. and Ackerman, D.L., 1995, Glaciotectonic Data Base and Mapping of North America, IN J.S. Aber (editor), *Glaciotectonics and Mapping Glacial Deposits*., Canadian Plains Research Center, Canadian Plains Proceedings 25, Regina, Canada, 177-200.
- Lindbo, D.L., **Brigham-Grette, J.**, and Veneman, P.L.M., 1994, Depositional and Post-Depositional Features in the Late Illinoian and Late Wisconsin Till of Massachusetts, Soil Science Society of America Special Publication No. 34, *Whole Regolith Pedology*, 75-95.
- Brigham-Grette, J.**, and Hopkins, D.M., 1995, Emergent-Marine record and Paleoclimate of the Last Interglaciation along the northwest Alaskan coast, *Quaternary Research*., v. 43, 154-173.
- Brigham-Grette, J.**, 1996, Geochronology of Glacial Deposits, Chapter 14, in J. Menzies, Editor., *Past Glacial Environments--Sediments, Landforms, and Techniques*, Butterworth Heinemann: Oxford, 377-410.
- Goodfriend, G. A., **J. Brigham-Grette**, and G. H. Miller, 1996, Enhanced age resolution of the Marine Quaternary Record in the Arctic using Aspartic Acid Racemization dating of Bivalve shells, *Quaternary Research*, V. 45, 176-187.
- Kuzmina, N.N., Taldenkova, E.E., Kulikov, O.A., Oreshkina, T.V., Sulerzhitskii, L.D., Turkova, M.E., Khoreva, I.M., Sjumova, G.M., and **Brigham-Grette, J.** 1997, Stratigraphy and the Neogene-Quaternary sedimentation Environment in the Northwestern Shelf and Coast of the Tartar Strait, *Stratigraphy and Geological Correlation*, v.5,n.5, 478-498 (English translation of Russian Journal).
- Fyles, J.G., McNeil, D.H., Matthews, J.V., Barendregt, R.W., Marincovich, L., Jr., Brouwers, E., Bednarski, J., **Brigham-Grette, J.**, Ovenden, L.O., Baker, J., and Irving, E., 1998, Hvitland Beds (Late Pliocene), White Point Lowland, Ellesmere Island, Arctic Canada. *Geological Survey of Canada Bulletin* 512.
- Pushkar, V.S., Roof, S.R., Cherepanova, M.V., Hopkins, D.M., Ivanov, V.F., and **Brigham-Grette, J.**, 1999, Paleogeographic and paleoclimatic significance of diatoms from Middle Pleistocene marine and glaciomarine deposits on Baldwin Peninsula, northwestern Alaska, *Paleogeography, Paleoclimatology, Paleoecology*, v. 152, 67-85
- Gualtieri, L., Glushkova, O. and **Brigham-Grette, J.**, 2000, Field evidence for restricted ice extend during the last glacial maximum in the Koryak Mountains of Chukotka, Far Eastern Russia, *Geological Society of America Bulletin*. 112, 1106-1118 (part of Gualtieri's PhD under JBG)
- Rittenour, T., **Brigham-Grette, J.** and Mann, M., 2000, ENSO-like climate teleconnections in New England during the Late Pleistocene. *Science*, 288, 1039-1042. (Rittenour's master's thesis under JBG)
- Elias, S.E. and **Brigham-Grette, J.** (Guest Editors), (2001) Paleoenvironments of Beringia, (34 papers). *Quaternary Science Reviews* v. 20 (1-3), 574 pages.
- Brigham-Grette, J.**, and Hopkins, D.M., Ivanov, V.F., Basilyan, A., Benson, S.L., Heiser, P and Pushkar, V., 2001, Last interglacial (Isotope Stage 5) glacial and sea level history of coastal Chukotka Peninsula and St. Lawrence Island, western Beringia, *Quaternary Science Reviews* v. 20 (1-3), 419-436

- Khim, B.K., Krantz, D.E. and **Brigham-Grette, J., 2001**, Stable isotope profiles of fossil bivalves and last interglacial paleoclimate in the Bering Strait, *Quaternary Science Reviews*, v. 20 (1-3), 463-484.
- Brigham-Grette, Julie, 2001**, New perspectives on Beringian Quaternary paleogeography, stratigraphy, and glacial history, *Quaternary Science Reviews*. v. 20 (1-3), 15-24.
- Gualtieri, L. and **Brigham-Grette, J., 2001**, The age and origin of the Little Diomed Island Upland Surface. *Arctic* 54 (1), 12-21. (part of Gualtieri's PhD under JBG)
- Nowaczyk, N.R., P. Minyuk, M. Melles, **J. Brigham-Grette**, O. Glushkova, M. Nolan, A.V. Lozhkin, T.V. Stetsenko, P. Andersen, S.L. Forman, 2002, Magnetostratigraphic results from impact crater Lake El'gygytgyn, north - eastern Siberia : a 300kyr long high - resolution terrestrial paleoclimatic record from the Arctic, *Geophysical Journal International*. 150, 109-126
- Nolan, Matt, Glen Liston, Peter Prokein, Rachel Huntzinger, **Julie Brigham-Grette**, Virgil Sharpton, 2003. Analysis of Lake Ice Dynamics and Morphology on Lake El'gygytgyn, Siberia, using SAR and Landsat. *J. Geophys. Research*, 108 (D2), 8162-8174.
- Brigham-Grette, J.**, Lyn M. Gualtieri, Olga Glushkova, Thomas D. Hamilton, David Mostoller, A. Kotov, 2003, Chlorine-36 and 14C Chronology Support a Limited Last Glacial Maximum Across central Chukotka, Northeastern Siberia, and no Beringian Ice Sheet, *Quaternary Research*, 59, 386–398.
- Gualtieri, L., Vartanyan, S., **Brigham-Grette, J.**, Patricia M. Anderson P.M., 2003, Pleistocene raised marine deposits on Wrangel Island, NE Siberia: Implications for Arctic Ice Sheet History, *Quaternary Research* 59, 399-410.
- Brigham-Grette, J.**, Lozhkin, AV, Anderson, PM., and Glushkova, Oyu. , 2004, "Paleoenvironmental Conditions in Western Beringia before and during the Last Glacial Maximum" in Madsen, D.B., editor, *Entering America: Northeast Asia and Beringia before the Last Glacial Maximum*, University of Utah Press, Salt Lake UT,. Chapter 2, pg. 29-61
- Brigham-Grette, J.** and Gualtieri, L., 2004, Response to Grosswald and Hughes (2004), "Chlorine-36 and 14C chronology support a limited last glacial maximum across central Chukotka, Northeastern Siberia, and no Beringian ice sheet," and Gualtieri et al. (2003), Pleistocene raised marine deposits on Wrangel Island, NE Siberia: implications for Arctic ice sheet history. *Quaternary Research*, v. 62 (2), 227-232.
- Gualtieri, L., Vartanyan, S., **Brigham-Grette, J.**, Anderson P.M., 2005, Evidence for an Ice-free Wrangel Island, northeast Siberia during the last Glacial Maximum, *Boreas* 34, 264-273.
- Keigwin, L. D., Donnelly J.P., Cook M.E., Driscoll N.W., **Brigham-Grette, J.**, 2006, Rapid sea-level rise and Holocene climate in the Chukchi Sea, *Geology* 34; no. 10; p. 861–864
- Otto-Bliesner, B.L., S. J. Marshall, J. T. Overpeck, G. H. Miller, A. Hu, and CAPE Last Interglacial Project Members, 2006, Simulating Warm-Arctic Climate and Ice Sheet Sensitivity for the Last Interglaciation, *Science* 311, 1751-1753., (**JBG among Project members**)
- CAPE Last Interglacial Project Members, 2006, Last Interglacial Arctic Warmth

- Confirms Polar Amplification of Climate Change, *Quaternary Science Reviews* 25, 1383–1400. (**JBG among Project members**)
- Melles, M., Minyuk, P., Brigham-Grette, J. and Juschus, O., 2005. The expedition Lake El'gygytgyn 2003 (Siberian Arctic). *Reports of Polar & Marine Research* 509:139.
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- Brigham-Grette, J.**, 2004, Déjà vu: Paleoenvironmental Look at Sea ice Extent during earlier warm periods, Arctic Research Consortium of the United States, 16th Annual Meeting Abstract and Program. May 14-15, Washington D.C., (talk downloadable on the web at www.Arcus.org/annual_meetings/2004/arctic_forum.html)
- Brigham-Grette, J.** 2004, Progress and Planning for Drilling at Lake El'gygytgyn, DOSECC Annual Meeting, Rutgers University, Abstract vol. 24-25 May, 2004 INVITED
- Brigham-Grette, J.**, 2004, Cenozoic Evolution of the Arctic Basin: from forests to tundra & sea ice, The Amerasian Basin and its Margins, An NSF-Supported Community Meeting, Washington, DC, Joint Oceanographic Institutions, 8 - 9 June 2004. INVITED
- Brigham-Grette, J.**, and Apfelbaum, M., 2004, Sedimentological Expression of the last 150 ka from El'gygytgyn Crater Lake, NE Siberia, American Quaternary Association 18th Biennial meeting, Lawrence KS, June 26-28, 2004.
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- Brigham-Grette, J.**, 2004, The style and timing of Beringian Glaciations: a question of moisture sources. Conference in Honor of Jan Mangerud – Quaternary glaciations- a global perspective, 25-26 Nov., University of Bergen, Norway. INVITED SPEAKER
- Brigham-Grette, J.**, 2005, Arctic Interglacials and Times of Transition: Lessons from the Past for a High Latitude Future, DEKLIM/PAGES Conference: Germany Climate Change Program, THE CLIMATE OF THE NEXT MILLENNIA IN THE PERSPECTIVE OF ABRUPT CLIMATE CHANGE DURING THE LATE PLEISTOCENE, Mainz, Germany March 6-11, 2005. KEYNOTE SPEAKER
- Brigham-Grette, J.**, 2005, Arctic Environments for Humans in Stage 3, Rapid Landscape Change and Human Response in the Arctic and Subarctic, ICSU/IUGS/INQUA Interdisciplinary Conference, Whitehorse Yukon, June 15-17. Program, abstracts and field guide, p 11. KEYNOTE SPEAKER
- Brigham-Grette, J.**, 2005, The Nature and Conditions of Bilateral and multinational Quaternary Studies of Past Climate Change in the NE Russian Arctic, US-Russia International Science Facilitation Workshop, 11-16 June, St. Thomas Virgin Islands. p. 1. INVITED SPEAKER
- Brigham-Grette, J.**, Cenozoic Evolution of the Bering Strait: Changing Gateway Oceanography and Interglacial Déjà vu., Joint Oceanographic Institutions, Inc. Workshop Schedule and Abstracts, The Bering Strait, Rapid Climate Change and Land Bridge Paleoecology, Univ. of Alaska, Fairbanks., pg. 4 INVITED SPEAKER
- Powell R.**, Brigham-Grette, J., Cumpston R., Trussel L., Werner, A., Roof, S, Retelle, M., 2005, Svalbard REU Program: A High-Latitude Undergraduate Research Program in Glacial, Fluvial and Marine Processes Relevant to Arctic Climate Change, EOS Transactions AGU, 86(47).
- Brigham-Grette, J.** Melles, M., Minyuk, P., Koeberal, C., 2006, Science and Logistics for Deep Drilling at El'gygytgyn Crater Lake, NE Russia, DOSECC Annual Meeting, Abstract volume.
- Brigham-Grette, Julie** , Ross Powell, Al Werner, Steve Roof, and Mike Retelle, The Svalbard REU Program: A High-Latitude Undergraduate Research Experience in Glacial, Marine, and Lacustrine Processes Relevant to Arctic Climate Change, 2006 ARCUS Arctic Forum, 25-26 May, 2006, Washington D.C., Abstract volume. INVITED

- Brigham-Grette, J.** Melles, M., Minyuk, P., Koeberl, C., 2006, Significance of a 250 ka Paleoclimate Record from El'gygytgyn Crater Lake, NE Russia, AMQUA Biennial meeting, Bozeman MT, Aug, 2006 Abstract volume with Programs.
- Brigham-Grette, J.**, 2006, Cenozoic Earth System History Poles Apart: Linking Millennial scale Inter-hemispheric records of Antarctic and Arctic Climate Change, International SubArctic Lakes and Environments (SALE) Workshop, Abstract volume.
- Caissie, Beth E.;** Brigham-Grette, Julie; Lawrence, Kira T.; Cook, Mea S. , 2006, Rising temperatures, shrinking ice: the deglaciation in the Bering Sea based on diatoms, alkenones, and oxygen isotopes, 36th Arctic Workshop, Boulder CO INSTAAR, March 16-18, Abstract volume.
- Trusel, Luke D;** Cumpston, Ryan M., Brigham-Grette, J.; Powell, Ross D, 2006, Fjord Sedimentation Associated With A Submarine Meltwater Jet and Plume Discharging From Kronebreen Glacier, Kongsfjorden, Svalbard, Norway, 36th Arctic Workshop, Boulder CO INSTAAR, March 16-18, Abstract volume.
- Brigham-Grette, J.**, Melles, M., Deconto, R. and Koenig, S. 2007, Regional Arctic and Hemispheric Teleconnections expressed in the paleoenvironmental record of El'gygytgyn Lake, NE Russia, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract U13B-1151.
- Brigham-Grette, J.** Caissie, B., Driscoll, N. Hill, J., Keigwin L., Cooke, M., and Donnley, J., 2007, Sea level history and regional climate of the Beringian Arctic Gateway, IODP/ICDP/Chevron Workshop on Sea Level Change and Effects, Salt Lake City, Oct. 8-10.
- Brigham-Grette, J.**, 2008, Climate Change in the Arctic --Future Lessons from the Past, Swiss Climate Change Day, April 1, 2008. Bern Switzerland. (KEYNOTE SPEAKER; ppt on the web) INVITED
- Brigham-Grette, J.** 2008, Rethinking the Physical Evidence for Arctic Warm periods: when do trees, sea ice, and ice sheets make sense? International Geological Congress, Abstracts with Programs. Session AAB-002.
- Brigham-Grette, J.** 2008, Rethinking the Physical Evidence for Arctic Warm periods: when do trees, sea ice, and ice sheets make sense? AMQUA Biennial Meeting, Abstracts with Programs. Session AAB-002. (poster)
- Brigham-Grette, J.**, 2008, Can PAGEs in an Arctic Climate Playbook be found in Study of Past Interglacials?, IGBP Climate Change Congress, Cape Town South Africa. Abstract volume. INVITED

MASTERS THESES SUPERVISED

- David Lindbo**, Characterization of selected Massachusetts Tills, May 1990. Now Works in Federal Soils Laboratory.
- Matthew Huston**, Middle Pleistocene marine and glacial stratigraphy of Baldwin Peninsula, Northwest Alaska: a record of glaciation and sea level change. Feb. 1991. High School Science Teacher in Seattle.
- Laura Quinn**, Non-thesis Masters, Project title: Hydrologic properties of a high Arctic river and lake system. May 1991. Homemaker.

- Maria Uhle**, Sedimentology, stratigraphy, and chronology of the Late Wisconsinan marine regression of southern Maine. Feb. 1992., PhD at Ohio State, then Univ. Professor West VA, and now at National Academy of Sciences, Washington DC.
- Sonja Benson**, Pleistocene stratigraphy and ice extent across central Beringia. Sept 1994. Now Works in Private consulting.
- Karen Mulvey**, Middle and late Pleistocene interglacial records on the Kotzebue Sound Region of Northwest Alaska.(Pending). Teaching in the UK.
- Steve Charron**, Surficial mapping and paleoecological studies in the Bering Land Bridge National Preserve. Sept 1995. Now Works in Industry
- Jon Child**, Late Wisconsinan Glacial fluctuations in the Wonder Lake region of Denali National Park, Alaska. (field work initiated summer 1992 in collaboration with Dr. Al Werner, Mt. Holyoke College). Feb. 1995. Now Works in Industry
- David Mostoller**, Relative-age dating of middle and late Pleistocene moraines in Tanyurer River Valley, Chukotka, NE Russia. August 1997. Now Works in Industry.
- Amy Patrick**, GC/HPLC Analysis of Marine mollusks from the Bering Strait, Senior Honors Thesis, June 1998. PhD program at Univ. MN. Now Assoc. Professor at Western Illinois University in environmental writing.
- David Korewjo**, Middle Pleistocene Marine biostratigraphy of Gubik Formation, North slope of Alaska, Completed June 1999. Geologist for the Federal Bureau of Investigations (FBI).
- Tammy Rittenour**, Drainage History of Glacial Lake Hitchcock and the Terrace History of the Connecticut valley, Completed June 1999. PhD at Uni. Nebraska. After a postdoc in Sweden, now a postdoc at Utah State University.
- Trent Hayden**. Sea Level history of northern Wrangel Island: Was there a East Siberian Ice Sheet? Completed June 2002. Working in Environmental Consulting.
- Mike Apfelbaum**, Paleoclimate Expression of the Last Interglacial and the Recent Holocene from the Sediments of El'gygytyn Lake, Northeast Siberia, Russia. Completed June 2003. Now working for Environmental consulting firm Boston.
- Celeste Asikainen**, 2004. Sedimentology of a 65 ka record from Elgygytyn Crater Lake. Now in PhD program at UMass.
- Zach Lundeen**, 2005, Isotopic signature and Sea Level history of the Bering Strait region, Alaska. Now in the PhD program at University of Utah.
- Beth Caissie**, 2006, Diatom stratigraphy and late Pleistocene sea ice history of the Bering Strait region. See below.
- Caitlin Majocka**, 2006, Iron Diagenesis and redox conditions in El'gygytyn Crater Lake, NE Siberia. Now working for Massachusetts DEP.
- Cecilly Sharko**, (Started Fall 2007)Sea ice biomarkers and ice extent in the eastern Bering Sea,

DISSERTATIONS SUPERVISED

- Steven Roof**, Paleoclimatic significance of Middle Pleistocene glacial deposits in the Kotzebue Sound Region, Northwestern Alaska. (May, 1995). Now tenured on Natural Sciences Faculty at Hampshire College.

Lyn Gualtieri, Pleistocene Glacial History of the Lower Anadyr River Basin, NE Russia. Completed August, 1998. 1999 - Fulbright in Iceland, then three yr. post-doc at University of Washington funded by NSF. Now on faculty at Seattle University.

Beth Caissie, starting Fall 2006. Quantitative Approaches to Reconstructing Past Sea Ice duration and extent in the Bering and Chukchi Seas.

Kenna Wilkie, started Fall 2006. Organic geochemical analysis of lipid biomarkers at Lake El'gygytgyn, NE Siberia: developing proxies of moisture and E-P balance

In addition, I have served as an active member of PhD committees for over a dozen graduate students in the departments of Geosciences, Electrical Engineering, and Anthropology. In the past, I have been the external examiner of PhDs at University of Alberta and University of Delaware.