

March 2010

KENNETH GEORGE MILLER

Stratigrapher/Micropaleontologist

Address: Department of Earth and Planetary Sciences, Wright Lab Room 246, 610 Taylor Road,
Rutgers, The State University of New Jersey, Piscataway, NJ 08854

Phone: (732) 445-3622 FAX: (732) 445-3374 Cell: 609 577 3297 e-mail: kgm@rci.rutgers.edu

Family Status: Married to Karen Clark Miller, four children

Education:

1982, Ph.D., Massachusetts Institute of Technology/Woods Hole Oceanographic Institution Joint Program in Oceanography. Thesis: Late Paleogene (Eocene to Oligocene) paleoceanography of the northern North Atlantic. W.A. Berggren, B.E. Tucholke, advisors.

1978, A.B., Rutgers College. Senior thesis: Paleogene subsurface stratigraphy and the paleoecology of the Jobs Point Formation, New Jersey Coastal Plain. R.K. Olsson, advisor.

Professional Experience:

2009-2012. Vice Chair and Graduate Program Director, Department of Earth and Planetary Sciences, Rutgers University,

2009. Cruise, Integrated Ocean Drilling Program Expedition 313, New Jersey sea level.

2000-2009. Chair, Department of Earth and Planetary Sciences, Rutgers University, New Brunswick.

2000-2009. Director of the Geology Museum, Rutgers University, New Brunswick.

2000-2006, Graduate Director, Graduate Program in Geological Sciences, Rutgers University.

2000-2006. Undergraduate Director, Geological Sciences, Rutgers University, New Brunswick.

2000-present, Professor II, Rutgers University, New Brunswick.

2005-2006. Co-chief scientist, Chesapeake Bay Impact Crater, Eyreville coreholes.

2000 Acting Chair, Department of Geological Sciences, Rutgers University, New Brunswick.

1993-2000. Professor I, Rutgers University, New Brunswick.

1993-2001. Adjunct Senior Research Scientist, Lamont-Doherty Earth Observatory.

1996-2000. Vice Chair, Department of Geological Sciences.

1998. Cruise, Co-chief scientist R/V *Cape Hatteras*, multi- and single channel seismics.

1993-2009. Chief scientist, New Jersey Coastal Plain Drilling Project, ODP Legs 150X & 174AX: Island Beach (1993), Atlantic City (1993), Cape May (1994), Bass River (1996), Ancora (1998), Ocean View (1999), Bethany Beach, DE (2000), Fort Mott (2001), Millville (2002), Sea Girt (2003), Cape May Zoo (2004), Medford (2007), Double Trouble (2008).

1993. Cruise, Co-chief scientist, Ocean Drilling Program Leg 150, New Jersey Sea-level Transect.

1988-1993. Adjunct Research Scientist, Lamont-Doherty Earth Observatory.

1988-1993. Associate Professor, Rutgers University, New Brunswick.

1990-present. Faculty of Institute of Marine and Coastal Sciences, Rutgers University.

1987-1993. Graduate Faculty, Rutgers Newark.

1990. Cruise, Co-chief scientist R/V *Maurice Ewing*, multi- and single channel seismics.

1989. Cruises, Co-chief scientist R/V *Atlantis II* 120 and 124, Alvin diving and piston coring.

1983-1988. Associate Research Scientist, Lamont-Doherty Geological Observatory.

1987-1988. Visiting Lecturer, Rutgers University, New Brunswick.

1984. Co-chief scientist R/V *Conrad*, single channel water-gun seismics & piston coring.

1984-1986. Visiting Lecturer, Rutgers University, Newark College of Arts and Sciences.

1982-1983. Post-doctoral fellow, Lamont-Doherty Geological Observatory.

1983. Cruise, DSDV *Glomar Challenger*, Leg 95, The New Jersey Transect.

1982. Post-doctoral investigator, Woods Hole Oceanographic Institution.

1978-1982. Graduate research assistant, Woods Hole Oceanographic Institution.

1980. Cruise, R/V *Knorr*, multichannel seismics.

1980. Instructor, Sea Education Association.

1977. Princeton-Yellowstone Bighorn Research Association Field Program.

1976-1978. Research assistant to R.K. Olsson, Rutgers University.

Academic Awards:

2007-2009. DOSECC Distinguished Lecturer.
 2007. Fellow, American Geophysical Union; Henry Rutgers Scholar Lecturer.
 2006. JOI Distinguished Lecturer.
 2003. Rosenstiel Award, University of Miami.
 1995. JOI/USSAC Distinguished Lecturer.
 1983. ARCO scholar, Lamont-Doherty Geological Observatory.
 1982-1983. Lamont-Doherty Geological Observatory post-doctoral fellowship.
 1980. Phillips Petroleum Graduate Fellowship.
 1978. Graduated from Rutgers College highest honors and distinction (third in a class of 1500).

Research Interests:

Late Cretaceous-Cenozoic sea-level and paleoceanographic changes.
 Integration of isotopic, bio-, magneto-, and seismic stratigraphy.
 Foraminiferal stable isotope stratigraphy and paleoceanography.
 Foraminiferal biostratigraphy, paleoecology, and paleobiogeography.
 Seismic and sequence stratigraphy of passive margins and the deep sea.

Professional Societies:

Fellow Geological Society of America.
 Fellow American Geophysical Union.
 Member North American Micropaleontological Section of SEPM.
 Patron Cushman Foundation for Foraminiferal Research.

Editorial Boards

1989-2000. Associate Editor, *Palaios*.
 1995-2001. Associate Editor, *Journal Sedimentary Research*.
 1986-1991, 1996-2003. Associate Editor, *Paleoceanography*.
 1992-1995. Editor, *Paleoceanography*.
 1990-1992. Associate Editor, *Geological Society of America Bulletin*.
 1988-1992. Associate Editor, *Marine Micropaleontology*.

Professional Services

2009. Co-Convenor, DOSECC Workshop on the Future of Continental Scientific Drilling, Denver, June 4-5.
 2007. Co-Convenor, Technical Sessions (3), The Chesapeake Bay Impact Structure, Geological Society of America Ann. Mtg. Denver.
 2007. Co-Convenor, International Sea-level Workshop, Oct. 2007, Salt Lake City.
 2007. Co-Convenor, Mini-symposium on Response of the Coast to the Threat of Rising Seas and Global Warming, Rutgers, May 14, 2007.
 2007-2008. Member, Integrated Ocean Drilling Program (IODP) review committee of Climate, Ocean and Sea-level Variability.
 2006-2007. Member, Integrated Ocean Drilling Program (IODP) Science Advisory Structure Executive Committee (SASEC).
 2006-2011. Member, Science Planning Committee, DOSECC
 2006. Co-Convenor, Sealaix06, International conference on sea-level changes, Giens, France.
 2006. Co-Convenor, Technical Session, U.S. Atlantic and Gulf Margin Sequences and Hydrostratigraphy, Geological Society of America, Ann. Meeting, Philadelphia.
 2005-2006. Member, Integrated Ocean Drilling Program (IODP) Science Planning and Policy Oversight Committee (SPPOC).
 2005-2009. Member, Scientific Ocean Drilling Vessel Independent Oversight Committee (SODV-IOC).

2005. Co-Convenor, Relationships among seafloor spreading, long-term sea level, and ocean chemistry changes from the Late Cretaceous to Present, June 21-22, Rutgers University.
- 2003-2005. Member, Science Planning Committee, IODP.
- 2003-2004. Co-Chair, Publications Subcommittee, Science Planning Committee, IODP.
- 2003-2005. Co-chair, Science Planning Committee, DOSECC.
- 2003-2009. Vice Chair, DOSECC.
- 2002-2009. Member, Board of Directors, DOSECC.
2002. Panel member, National Science Foundation, International Research Fellowship Program.
2001. Co-Convenor, New Perspectives on the Character and Origin of Late Cretaceous-Cenozoic Sequences, U.S. Atlantic Margin, Geological Society America, Ann. Meeting.
- 2001-2002. Chair, Lake Drilling Subcommittee, International Continental Drilling Program.
2000. Chair, SCICOM Subcommittee on the Legacy of ODP, August 2000.
2000. Technical Chair, Northeast Section Meeting, Geological Society of America.
1999. Co-chair, Basins and Passive Margin Evolution Session, Conference on Multiple Platform Exploration (COMPLEX).
- 1999-2003. Member, Science Advisory Committee (SAG), International Continental Drilling Program (ICDP).
- 1999-2000. SCICOM liaison, Executive Committee, International Continental Drilling Program.
1999. Technical Committee, Northeast Section Meeting, Geological Society of America.
- 1998-2003. Board of Governors, Micropaleontology Press.
1998. Chair, Environments Subcommittee, Science Committee, Ocean Drilling Program.
- 1997-2000. Member, Science Committee (SCICOM), Ocean Drilling Program.
- 1996-2003. Member, Working Group on Sequence Stratigraphy, International Union of Geological Science Commission on Stratigraphy.
1996. Convenor, Technical Session, Geological Society of America, Ann. Meeting.
1994. Convenor, Technical Session, Geological Society of America, Ann. Meeting.
- 1990-1992. JOIDES Sea-level working group.
1991. JOIDES Rifted margins detailed planning group.
1991. Convenor, Symposium on The Global Climate Transition from the Late Paleocene to Early Eocene, Geological Society of America, Ann. Meeting.
1991. Convenor, Symposium on Modern and Ancient Processes on Continental Slopes, American Geophysical Union, Spring Meeting.
- 1990-1991. ICGP Project 308, Coordinator for deep-water benthic studies.
1990. NSF Advisory Meeting on Earth Systems History.
1990. Joint Technical Program Committee, Geological Society America.
- 1990-1992. Chair, Committee on Paleooceanography, American Geophysical Union.
1990. Vice-President, Cushman Foundation for Foraminiferal Research.
- 1989-1996. Member, AGU Committee on Paleooceanography.
1989. Convenor, Symposium on Cenozoic Deep-Sea Foraminifera: Distribution and Environments, Geological Society of America, Ann. Meeting.
1989. Convenor, Symposium on Cenozoic Deep-Water Evolution, AGU Spring Mtg.
1989. Convenor, Symposium on Depositional Sequences on the Middle Atlantic Margin, Geological Society of America, Northeast Section Meeting.
- 1988-1994. Board of Directors, Cushman Foundation for Foraminiferal Research.
- 1988-2012. Member, Paleogene Subcommittee, International Union of Geological Science Commission on Stratigraphy.
1987. Convenor, Symposium on Plio-Pleistocene Paleooceanography in the North Atlantic, Internat. Union Quaternary Res. XII Internat. Congr.
1987. Convenor, Sea level and the stratigraphic record, Symposium held at Lamont-Doherty.
1983. Convenor, Symposium on the Eocene/Oligocene boundary, American Association of Petroleum Geol. Ann. Meeting.
1983. Session Chair, Geological Society of America, Ann. Meeting.
- reviewer of ~8-10 NSF proposals/annum

Invited Speaker

2010. Brookdale College, Imperial College London, U.S.G.S. Menlo Park, ECORD Summer School Bremen.
2009. Bremen University, Cambridge University, Duke University, Woods Hole Oceanographic Institution, Rutgers Geology Museum Open House, New Jersey Academy of Sciences, New Jersey State Museum, Geological Association of New Jersey.
2008. Princeton University, Brown University, Johns Hopkins, Lehigh, University of Minnesota Twin Cities, University of Minnesota Duluth, University of South Carolina, Coalition of National Science Funding (Capital Hill).
2007. University of Florida, Western Michigan, University of Connecticut, Connecticut Wesleyan University, Lawrence College, Rensselaer Polytechnic University, Syracuse University, University of Pittsburg, DOSECC Workshop, JOI-ICDP-IODP-DOSECC-Chevron Sea-level Workshop, GSA Pardee Symposium on Climate Change, GSA Symposium on the Chesapeake Bay Impact Structure, Rutgers Department of Statistics, Rutgers Geology Museum Open House, Middlesex County College Earth Day speaker, Henry Rutgers Scholar Lecturer, Bay Head Environmental Commission, The Wetlands Institute, Long Beach Island Foundation for the Arts & Sciences, DOSECC-ICDP Town Hall Meeting at AGU.
2006. University of Chicago, Lamont-Doherty Earth Observatory of Columbia University, Colby College, Appalachian State, University North Carolina Wilmington, Savannah State, International workshop on the Chicxulub impact (Potsdam, Germany), North American Micropaleontology Section of SEPM (Houston, TX), Geological Society America Continental Dynamics session (Philadelphia, PA), Rutgers New Faculty Traveling Seminar speaker, Bayhead Environmental Commission.
2005. University of Arizona, University of Delaware, ExxonMobil, University of Kansas, University of Pennsylvania.
2003. RSMAS (University of Miami), Rutgers University Department of Chemistry.
2002. University of Maryland, Boston University.
2001. Joint Oceanographic Institutions House Oceans Caucus, Earth Science Week speaker.
2000. Cornell University.
1999. University of Rhode Island, Lamont-Doherty Earth Observatory of Columbia University.
1998. University of South Florida, Yale University.
1997. Lamont-Doherty Earth Observatory of Columbia University.
1995. Scripps Institution of Oceanography, University of Southern California, University of Cincinnati, University of Florida, University of South Florida, University of Miami.
1994. University of Delaware, University of Tennessee.
1990. University of South Carolina.
1986. University of Florida.
- various regional, national, and international meetings indicated in bold under abstracts.

University Service

- 2009-2010. Future of the School of Arts and Sciences committee.
2008. Nominating committee, GSNB.
- 2007-2009. Co-Chair, Rutgers Coastal climate change working group.
- 2007-present. Steering committee, Rutgers Energy Institute.
- 2006-2008. Selection committee, IMCS Director.
- 2006-2007. Rutgers Foundation committee on the EOPS building.
- 1998-present. Co-Director, Rutgers Core Repository.
- 2006-present. Steering committee, Rutgers Climate Initiative.
- 2005-2006. SAS Interim core curriculum committee.
2005. Co-designed a new professional masters degree in Applied Geosciences.
2005. Selection Committee, Biogeochemical Modeler, IMCS.
2004. Building committee for the joint IMCS-Geological Sciences EOPS building.
- 2000-2001. Member, A&P Professor II Committee.
2000. Selection Committee, Paleoceanography, IMCS.

1998. Negotiated Rutgers joining Joint Oceanographic Institutions (JOI).
 1998. Selection Committee, Hydrogeologist, Department of Geological Sciences.
 1998-1999. Rutgers Science Cabinet.
 1997. Co-designed new major track in Environmental Geology.
 1997. Designed new course, Honor Geology 105 laboratory.
 1996-1999. Vice-Chair, Department of Geological Sciences.
 1996. Chair, Selection Committee, Basins analysis, Department of Geological Sciences.
 1995. Committee on mechanisms to promote interdisciplinary activities.
 1992. Selection Committee, Marine Geochemist, Marine Science Institute.
 1992-1993. A&P Nontenured Committee.
 1990. Selection Committee, Structural Geologist, Department of Geological Sciences.
 1990. Designed new undergraduate course, Geological Modeling.
 1988-2007. Fellow, Rutgers College.

Student Committees

2009. Aurora Elmore, Ph.D., Rutgers University, New Brunswick.
 2008. Samuel Henderson, Ph.D., Rutgers University, New Brunswick.
 2008. Sindia Sosdian, Ph.D., Graduate Program Oceanography, Rutgers University, New Brunswick.
 2006. Alicia Kahn, Ph.D., Rutgers University, New Brunswick.
 2006. Samuel Henderson, M.S., Rutgers University, New Brunswick.
 2006. Lauren Neitzke, M.S., Rutgers University, New Brunswick.
 2006. Ryan Earley, M.S., Rutgers University, New Brunswick.
 2002. Alicia Kahn, M.S., Rutgers University, New Brunswick.
 2002. Jane Uptegrove, M.S., Rutgers University, New Brunswick.
 2001. Scott Stanford, Ph.D., Rutgers University, New Brunswick.
 2000. Keith Metzger, M.S., Rutgers University, New Brunswick.
 1999. Stephanie Gaswirth, M.S., Rutgers University, New Brunswick.
 1999. Peter Le Tourneau, Ph.D., Lamont-Doherty Geological Observatory.
 1996. John Carey, Ph.D., Rutgers University, New Brunswick.
 1996. Peter Smith, M.S., Rutgers University, New Brunswick.
 1995. Steward Sandberg, Ph.D., Rutgers University, New Brunswick.
 1994. Brian Jones, M.S., Rutgers University, New Brunswick.
 1992. Chengjie Liu, Ph.D., Rutgers University, New Brunswick.
 1992. Joanne Alexandrovich, Ph.D., Lamont-Doherty Geological Observatory.
 1992. Douglas Musser, M.S., Rutgers University, New Brunswick.
 1992. Dominic Esker, M.S., Rutgers University, New Brunswick.
 1991. Hongcheng Li, Ph.D., Rutgers University, New Brunswick.
 1991. Christopher D. Charles, Ph.D., Lamont-Doherty Geological Observatory.
 1990. Frederick L. Muller, Ph.D., Rutgers University, New Brunswick.
 1990. Karen Suydam, M.S., Rutgers University, New Brunswick.
 1989. Robert Wellner, M.S., Rutgers University, New Brunswick.
 1986. Michael Kaminski, Ph.D., MIT/WHOI Joint Program in Oceanography.
 1985. Alan J. Melillo, Ph.D., Rutgers University, New Brunswick.
 1983. Eyo Nyong, Ph.D., Rutgers University, New Brunswick.

Student Advisor

Summer Interns

1989. Craig Padover, Lamont-Doherty Geological Observatory.
 1988. Beth Christensen, Lamont-Doherty Geological Observatory.
 1985. Andrew N. Brower, Lamont-Doherty Geological Observatory.
 1982. Karrie Chapneys Wood, Woods Hole Oceanographic Institution.

Senior Honors Theses

2010. Alex Fiore, Rutgers College.
 2005. Alissa Stanley, Douglass College.
 2000. John Hernandez, Rutgers College.
 1996. John Metzger, Cook College.
 1996. Steven Remer, Rutgers College.
 1994. David W. Gwynn, Cook College.
 1991. Jeffrey P. Oslick, Rutgers College.
 1990. Craig Padover, Rutgers College.
 1990. Christine Troskosky, Rutgers College.

Masters

2007. Aimee Pusz, Rutgers University, New Brunswick.
 2006. Ashley Harris, Rutgers University, New Brunswick.
 2006. Svetlana Misintseva, Rutgers University, New Brunswick.
 2005. Andrew Kulpecz, Rutgers University, New Brunswick.
 2004. Lesley Patrick, Rutgers University, New Brunswick.
 2002. John Hernandez, Rutgers University, New Brunswick.
 2001. Timothy Reilly, Rutgers University, New Brunswick.
 2001. Paul Hanczaryk, Rutgers University, New Brunswick.
 2001. Ethan Skinner, Rutgers University, New Brunswick.
 1998. Benjamin Cramer, Rutgers University, New Brunswick.
 1995. Stephen F. Pekar, Rutgers University, New Brunswick.
 1992. Beth A. Christensen, Rutgers University, New Brunswick.
 1988. Andrew N. Brower, Lamont-Doherty Geological Observatory of Columbia University.
 1988. David J. Keil, Rutgers Newark.

Ph.D.

- (in progress). Svetlana Misintseva, Rutgers University, New Brunswick.
 2010. Ashley Harris, Rutgers University, New Brunswick.
 2008. Andrew A. Kulpecz, Rutgers University, New Brunswick.
 2008. Donald H. Monteverde, Rutgers University, New Brunswick.
 2002. Benjamin S. Cramer, Rutgers University, New Brunswick.
 2001. Miriam E. Katz, Rutgers University, New Brunswick.
 1999. Stephen F. Pekar, Rutgers University, New Brunswick.
 1996. James V. Browning, Rutgers University, New Brunswick.
 1995. Dorothy Pak, Lamont-Doherty Earth Observatory of Columbia University.
 1994. Peter J. Sugarman, Rutgers University, New Brunswick.
 1991. James D. Wright, Lamont-Doherty Geological Observatory of Columbia University.

Post-doctoral scholars/Investigators/Visiting Professors

- 2005-2006. Bridget Wade, Rutgers University, New Brunswick.
 2001-2002. Chieko Shimada, Rutgers University, New Brunswick.
 1999-2001. Luca Lanci, Rutgers University, New Brunswick.
 1999-2000. Stephen F. Pekar, Rutgers University, New Brunswick.
 1996-1999. James V. Browning, Rutgers University, New Brunswick.
 1996-1997. Michelle Kominz, Visiting Professor for Women, Rutgers University, New Brunswick.
 1993-1995. Chengjie Liu, Rutgers University, New Brunswick.
 1992-1995. Mickey van Fossen, Rutgers University, New Brunswick.
 1991-1992. James D. Wright, Lamont-Doherty Geological Observatory of Columbia University.

Courses Taught

2007, 2008, 2009, 2010. Byrne First-year Seminar, Global climate and sea-level change: Should I sell my shore house?
 2007. Graduate seminar, The Geological Record of Climate Change.
 1994, 1996, 1997, 2000, 2002-2009. Marine Geology.
 1988-2010. Stratigraphy.
 1991, 1998, 2001, 2003, 2009. Paleoceanography.
 1993, 1995, 2000. Sedimentary Geology (graduate).
 1987-1991. Oceans and Continents (102).
 1989, 1992. Mesozoic-Cenozoic Stratigraphy (graduate).
 1991, 1997, 2006, 2010. Seminar in Sequence Stratigraphy (graduate).
 1991. Sedimentology.
 1991. Geology of Ocean Basins.
 1990. Studies in Micropaleontology (graduate).
 1989. Geological Modeling.
 1988. Field Geology.
 1985, 1986. Oceanology. Rutgers Newark.
 1984. Marine Geology (graduate). Rutgers Newark.
 1980. Oceanography. Sea Education Association, Woods Hole.

Consulting (all funds going to Rutgers)

2000-2001, 2005-2008. Exxon-Mobil, Sr-isotopic stratigraphy, \$6,500, \$2,000, \$6,000. \$6,000, \$6,000.
 1999. Furman University, Sr-isotopic stratigraphy, \$750.
 1994-1995. Ciba-Geigy Corporation, Toms River, NJ, Evaluation of aquifer continuity using sequence stratigraphy and micropaleontology, \$7,350.
 1991. Marathon Oil, Sr-isotopic stratigraphy of the Red Sea region, \$4,800.
 1990-1991. New Jersey Geological Survey, Sr-isotopic stratigraphy, \$1,900.
 1990. Bedford Institute Oceanography, Sr-isotopic stratigraphy, \$750.
 1989. Florida State University, Sr-isotopic stratigraphy, \$5,500.
 1988-1990. Chevron Oil, Sr-isotopic stratigraphy, \$3,000.

Community Service

2000-2005-Board Member, Elm Ridge Area Neighborhood Association (ERANA). Provided geological evaluation of water-resource issues related to BMS expansion.
 1993-present, Collaborator with the New Jersey Geological Survey, Department of Environmental Protection, on the Coastal Plain Drilling Project.
 1988-present, Served as guide for numerous primary school and civic organizations to the Rutgers Geology Museum and geological field localities in the state.

LIST OF PUBLICATIONS

KENNETH G. MILLER

PUBLICATIONS: PEER REVIEWED

Author of over 100 peer-reviewed publications (59 senior authored) and four books;
 total ISI citations 1988-present 2,739; h-index 27

in press/2010

Harris, A., Miller, K.G., Browning, J.V., Sugarman, P.J., Olsson, R.K., Cramer, B.S., and Wright, J.D., in press, Integrated Stratigraphic Studies of Paleocene-Lowermost Eocene Strata, New Jersey Coastal Plain: Evidence for glacioeustatic control, *Paleoceanography*, press.

Katz, M.E., Cramer, B.S., Franzese, S., Hönisch, B., Miller, K.G., Rosenthal, Y., and Wright, J.D., 2010, Traditional and emerging geochemical proxies in foraminifera, *J. Foram Research*, v. 40(2), 165-192.

2009

- Miller, K.G., 2009, Broken greenhouse windows: *Nature Geoscience*, v. 2, p. 465-466.
- Miller, K.G., Sugarman, P.J., Browning, J.V., Horton, B.J., Stanley, A., Kahn, A., Uptegrove, J., and Aucott, M., 2009, Sea-level rise in New Jersey over the past 5000 years: Implications to anthropogenic changes: *Global and Planetary Change*, v. 66, p. 10-18.
- Miller, K.G., Wright, J.D., Katz, M.E., Wade, B., Browning, J.V., Cramer, B.S., and Rosenthal, Y., 2009, Climate threshold at the Eocene-Oligocene transition: Antarctic ice sheet influence on ocean circulation, in Koeberl, C., and Montanari, A., eds., *The late Eocene Earth – hothouse, icehouse, and impacts*: Geological Society of America Special Paper 452, p. 169-178.
- Browning, J.V., Miller, K.G., McLaughlin, P.P., Jr., Edwards, L.E., Kulpecz, A.A., Powars, D.S., Wade, B.S., Feigenson, M.D., and Wright, J.D., 2009, Integrated sequence stratigraphy of the post-impact sediments from the Eyreville core holes, Chesapeake Bay impact structure inner basin, in Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., eds., *The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Core Holes*: Geological Society of America Special Paper 458, p. 775-810, doi: 10.1130/2009.2458(04).
- Cramer, B. S., Toggweiler, J. R., Wright, J. D., Katz, M. E., Miller, K. G., 2009. Ocean overturning since the Late Cretaceous: Inferences from a new benthic foraminiferal isotope compilation. *Paleoceanography*, v. 24, No. 4, PA4216
<http://dx.doi.org/10.1029/2008PA001683>.
- Edwards, L.E., Powars, D.S., Browning, J.V., McLaughlin, P.P., Jr., Miller, K.G., Self-Trail, J.M., Kulpecz, A.A., and Elbra, T., 2009, Geologic columns for the ICDP-USGS Eyreville A and C cores, Chesapeake Bay impact structure: Post-impact sediments, 444 to 0 m depth, in Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., eds., *The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Core Holes*: Geological Society of America Special Paper 458, p. 91-114, doi: 10.1130/2009.2458(04).
- Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., 2009, Deep drilling in the Chesapeake Bay impact structure—An overview, in Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., eds., *The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Core Holes*: Geological Society of America Special Paper 458, p. 1-20, doi: 10.1130/2009.2458(33).
- Kulpecz, A.A., Miller, K.G., Browning, J.V., Edwards, L.E., Powars, D.S., McLaughlin, P.P., Jr., Harris, A.D., and Feigenson, M.D., 2009, Post-impact deposition in the Chesapeake Bay impact structure: Variations in eustasy, compaction, sediment supply, and passive-aggressive tectonism, in Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., eds., *The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Core Holes*: Geological Society of America Special Paper 458, p. 811-837, doi: 10.1130/2009.2458(34).
- Mizintseva, S.F., Browning, J.V., and Miller, K.G., 2009, Integrated late Santonian-early Campanian sequence stratigraphy, New Jersey coastal plain: Implications to global sea-level studies: *Stratigraphy*, v. 6, p. 45-60.
- Pusz, A.E., Miller, K.G., Wright, J.D., Katz, M.E., Cramer, B.S., and Kent, D.V., 2009, Stable isotopic response to late Eocene extraterrestrial impacts, in Koeberl, C., and Montanari, A., eds., *The late Eocene Earth – hothouse, icehouse, and impacts*: Geological Society of America Special Paper 452, p. 83-96.

Wright, J.D., Sheridan, R.E., Miller, K.G., Uptegrove, J., Cramer, B.S., and Browning, J.V., 2009, Late Pleistocene sea level on the New Jersey Margin: Implications to eustasy and deep-sea temperature: *Global and Planetary Change*, v. 66, p. 93-99.

2008

- Browning, J.V., Miller, K.G., Sugarman, P.J., Kominz, M.A., McLaughlin, P.P., and Kulpecz, A.A., 2008, 100 Myr record of sequences, sedimentary facies and sea-level change from Ocean Drilling Program onshore coreholes, U.S. Mid-Atlantic coastal plain: *Basin Research*, v. 20, p. 227-248, doi: 10.1111/j.1365-2117.2008.00360.
- Fulthorpe, C.S., Camoin, G., Miller, K.G., and Droxler, A., 2008, Pre-Quaternary sea-level changes: records and processes: *Basin Research*, v. 20, p. 161-162.
- Fulthorpe, C.S., Miller, K.G., Droxler, A., Hesselbo, S.P., Camoin, G.F., and Kominz, M.A., 2008, Drilling to decipher long-term sea-level changes and effects – a joint ocean leadership, ICP, IODP, DOSECC, and Chevron workshop: *Scientific Drilling*, v. 6, p. 19-28, doi:10.2204/iodp.sd.6.02.2008.
- Gohn, G.S., Koeberl, C., Miller, K.G., Reimold, W.U., Browning, J.V., Cockell, C.S., Horton Jr., J.W., Kenkmann, T., Kulpecz, A.A., Powars, D.S., Sanford, W.E., Voytek, M.A., 2008, Deep drilling into the Chesapeake Bay impact structure: *Science*, v. 320, p. 1740-1745.
- Hayden, T., Kominz, M., Powars, D.S., Edwards, L.E., Miller, K.G., Browning, J.V., Kulpecz, A.A., 2008, Impact effects and regional tectonic insights: Backstripping the Chesapeake Bay impact structure: *Geology*, v. 36, p. 327-330, doi: 10.1130/G24408A.1.
- Katz, M.E., Miller, K.G., Wright, J.D., Wade, B.S., Browning, J.V., Cramer, B.S., and Rosenthal, Y., 2008, Stepwise transition from the Eocene greenhouse to the Oligocene icehouse: *Nature Geoscience*, v. 1, p. 329-334, doi:10.1038/ngeo179.
- Kominz, M.A., Browning, J.V., Miller, K.G., Sugarman, P.J., Misintseva, S., and Scotese, C.R., 2008, Late Cretaceous to Miocene sea-level estimates from the New Jersey and Delaware coastal plain coreholes: an error analysis: *Basin Research*, v. 20, p. 211-226.
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- Van Fossen, M.C., Browning, J.V., Miller, K.G, and members of the Coastal Plain Drilling Project, Magnetostratigraphy of Cenozoic Coastal Plain cores: New Jersey Sea-Level Transect, *Trans. Am. Geophys. Un.*, 1994.

Current and Pending Support
Kenneth G. Miller

Agency Project Title, Period, Amount, Man Mo., Loc.

A. Current Support

NSF/EAR-Continental Dynamics EAR 070778, Drilling the Cretaceous/Paleogene boundary in NJ: Testing the relationship of geochemical anomalies to event beds, 04/15/07 - 04/14/09, **\$135,000** Miller, Browning, Olsson, Sugarman, 0.5 summer months per annum.

NSF/OCE/ODP OCE0623883, Archiving and Advancing Core Curation and Database Management of ODP Legs 150X and 174AX cores: The Rutgers U.S. Atlantic Margin Core Repository (0751757), **\$160,643** 11/08/07 – 11/30/10, Miller, Kent, Browning, 0.5 summer months per annum.

DOE/Battelle/NJGS Budget for Midwest Regional Carbon Sequestration Partnership - Geological Characterization, 01/01/10-08/30/10, **\$169,553**, Miller, Mountain, Reinfelder, 1.5 summer months

Consortium Ocean Leadership/USSSP support of Expedition 313, **\$239,108**, 5/2/09-5/1/10, Mountain, Miller, Browning, 2 summer months

B. Proposals Pending

III. Transfer of Support: None

IV. Other agencies to which this proposal has been submitted: None

Location: RU = Rutgers University

Funding History

NSF

- NSF/OCE/MGG OCE0623256 Late middle Eocene to Oligocene ocean and climate dynamics: the transition from the greenhouse to the icehouse world, 07/01/06 - 06/30/08, **\$271,608**, 1.0, RU, Katz, Miller, Wade, Wright
- NSF/OCE/ODP OCE0623883, Management of ODP Legs 150X and 174AX cores: The Rutgers U.S. Atlantic Margin Core Repository OCE - OCEAN DRILLING PROGRAM, **\$49,994** 12/01/06 – 11/30/07.
- NSF/EAD/CD EAR0606693 Post-Impact Studies of the Chesapeake Bay Impact Structure: Quantifying Continental Margin Evolution 07/01/06 - 06/30/08, **\$85,000**, 3.0, RU, Miller, Browning, Kominz (WMU)
- NSF/EAR/CD EAR0307112 Cooperative NSF-NJGS Drilling of the Greenhouse World: The Cretaceous Transect, 04/01/03-07/31/06, **\$304,568**, 2.5, RU, Miller, Browning, Kominz (WMU)
- NSF/EAR/CD EAR0506720 Collaborative Research: Post-Impact Studies of the Chesapeake Bay Impact Structure: Implications for Continental Margin, 08/01/05 - 07/31/06, **\$95,111**, 1.0, RU, Miller, Browning, Kominz (WMU)
- NSF/EAR0213239 Acquisition of a Multicollector Thermal Ionization Mass Spectrometer, 05/15/2003-04/30/2005, **\$270,000**, 0, RU, Feigenson, Carr, and Miller
- NSF/OCE0095219 The Architecture and Paleoceanography of N Atlantic Drifts: Seismic Profiling, Swath Mapping, and Coring, 10/1/01-9/30/04, **\$141,529**, 0.75, RU, Wright, Mountain, and Miller
- NSF/OCE 0084032 Biocomplexity: The Evolution and the Radiation of Eukaryotic Phytoplankton Taxa (EREUPT) 9/1/00-8/30/05, **\$4,126,495**, 2.5, RU, Falkowski, Miller et al.
- NSF/EAR9909179 Cooperative NSF-USGS Drilling in the Delmarva Peninsula: The Effects of Variations in Global Sea-level, Tectonic Subsidence, and Sediment Supply on Sequence Architecture, 06/5/00-12/31/03, **\$283,269** to Rutgers, \$144,000 in direct drilling payments from NSF to U.S. Geological Survey
- NSF EAR97-08664 Global Sea level and Late Cretaceous to Miocene sequences: completion of the New Jersey Coastal Plain Drilling Project, 6/1/98-12/30/00, **\$503,694** to Rutgers, \$100,000 in direct drilling payments from NSF to U.S. Geological Survey
- NSF EAR98-16252 Acquisition of a Stable Isotope Mass Spectrometer and Automated Sample Preparation Device for Carbonate and Water Analyses, 4/15/1999-3/31/2000, **\$97,750** to Rutgers, Wright and Miller
- EAR97-08664 Global Sea Level and Late Cretaceous to Miocene Sequences: Completion of the New Jersey Coastal Plain Drilling Project, 6/1/98-11/30/00, **\$503,694** to Rutgers
- NSF OCE97-26273 High-resolution imaging of nearshore sequences, New Jersey inner continental shelf, 0/1/97-9/30/99, **\$109,937** to Rutgers, \$383,710 to LDEO, Miller and Sheridan (Rutgers); Mountain (Lamont-Doherty)

- EAR95-05957 Integrated Eocene-Oligocene Stratigraphy of Alabama and Mississippi boreholes: Comparison with the NJ Transect and Global Sea-level Proxies, 7/15/95-6/31/98 (w/ no funds extension), **\$136,513** to Rutgers, \$152,973 to LDEO
- NSF EAR94-17108 Renewal of Depositional Sequences on the New Jersey Coastal Plain: A Drilling Proposal, **\$295,993** to Rutgers
- EAR92-18210 Paleogene to Neogene depositional sequences on the New Jersey coastal plain: A drilling proposal, 3/1/93-2/28/95, \$297,651 to Rutgers, **\$300,000** to USGS, \$150,000 to LDEO
- OCE91-00933 Paleogene chronology: Global correlations, 6/15/91-6/14/92 **\$48,524** (LDEO only)
- OCE89-11810 Geometry and Timing of Upper Oligocene to Miocene Depositional Sequences on the U.S. Middle Atlantic Margin and OCE92-03282 renewal **\$597,420** (first award); second award: **\$48,590** (RU only) and \$316,988 (LDEO only) 03/01/90-02/29/92 and 5/1/92-4/30/94 Mountain, Miller, and Christie-Blick
- OCE88-17563 Anatomy, Age, and Origin of Erosional Features on the New Jersey Continental Slope, 04/01/89-03/31/91, **\$311,994** LDEO, Ryan and Miller
- OCE88-11834 Cenozoic Benthic Foraminiferal Carbon Isotopes and the Development of Deep-Water Circulation in the North Atlantic (Renewal), 10/15/88-10/14/90, **\$191,732** LDEO.
- OCE87-00005 Middle Tertiary Global Stable Isotopic Correlations: Implications for Sea-level and Paleoceanographic Changes (Renewal), 04/01/87-03/31/89, **\$260,239** LDEO, Miller, Kent
- OCE86-00249 Paleoceanography and tectonic history of the North Atlantic during the early to middle Tertiary: Renewal, 8/15/86-7/31/89, **\$215,229**, LDEO, Mountain, Miller, and Christie-Blick
- OCE85-00859 Middle Tertiary Global Stable Isotopic Correlations: Implications for Sea-level and Paleoceanographic Changes, 04/01/85-03/31/87, **\$200,671** LDEO, Miller, Kent, and Aubry
- OCE85-21690 Cenozoic Benthic Foraminiferal Carbon Isotopes and the Development of Deep-Water Circulation in the North Atlantic, 04/01/86-03/31/88, **\$181,246** LDEO
- OCE83-10086 Paleoceanography and tectonic history of the North Atlantic during the early to middle Tertiary, 1/1/83-10/30/85, **\$313,231** LDEO, Mountain, Miller

Other

- ExxonMobil Exploration Company, Biostratigraphy and Sequence Stratigraphy of the Cenozoic **\$90,000** in fellowship support, 01/01/06-12/31/09; Miller.
- Gohn, Miller, Koeberl, and Reimold. ICDP Deep Drilling in the Central Crater of the Chesapeake Bay Impact Structure, Virginia, USA. 01/01/05-12/31/06, **\$900,000** in drilling support to DOSECC,

Miller

New Jersey Geological Survey

The Ancora and Corson's Inlet Boreholes: A proposal to the New Jersey Geological Survey
1/1/98-12/31/99, **\$30,000** (Rutgers)

Miller

JOI/USSAC Strontium Isotopic Correlations of Upper Eocene to Pliocene Sequences, ODP Leg
174A New Jersey Continental Slope and Shelf, 11/1/1997-10/31/1998, **\$9,880**

Miller

New Jersey Geological Survey, Bass River corehole project, 4/1/96-3/31/97, **\$175,000** (Rutgers)

Miller, Katz

Consortium of oil companies, 1992-1998, **\$18,000-\$25,000** per annum (LDEO)

Austin, Mountain, Miller

JOI/USSAC Safe Science along the Mid-Atlantic Transect (MAT): Site-specific hazards
surveying on the continental terrace offshore New Jersey in support of sea-level objectives,
6/1/95-3/31/97, **\$15,719** (Rutgers), \$56,144 (LDEO), \$151,935 (UTIG)

Austin, Fulthorpe, Mountain, Buhl, Miller

ONR, High resolution seismic survey for Pleistocene sequence stratigraphy New Jersey
continental shelf and upper slope in support of STRATAFORM. 11/1/94-10/31/96,
\$419,850 (LDEO), \$130,163 (UTIG)

Miller

ARCO, Studies of two Mississippi boreholes, 1/1/1994-12/31/1994, **\$20,000**

Miller

JOI/USSAC, Co-chief scientist salary support, 5/30/93-11/30/94, **\$58,094**

Miller

JOI/USSAC Sr Isotopic Correlations of Upper Eocene to Middle Miocene Sequences, NJ
Continental Slope, 12/1/93-11/30/94, **\$16,960**

Miller, Van Fossen

JOI/USSAC Magnetostratigraphy of Leg 150 sediments, 12/1/93-11/30/94, **\$16,458**.

Katz, Miller

JOI/USSAC Eocene to Pliocene benthic foraminiferal biofacies, paleoenvironment and
paleobathymetry of the NJ margin, 12/1/93-11/30/94, **\$18,192**

Miller and Pak

JOI/USSAC Isotopic and Faunal Record of Paleogene Climate Transitions, Leg 145
1/1/93-12/31/93, **\$15,078**

Miller and Katz

JOI/USSAC

Cenozoic Benthic Foraminiferal Biostratigraphy, Paleobathymetry, and Paleoceanography, Leg
133, 3/1/91-2/28/92, **\$21,224**

Miller

Chevron U.S.A. Upper Eocene to Pliocene Strontium Isotope Stratigraphy, 01/01/89-11/31-90,
\$20,000

Miller and Katz
JOI/USSAC Cenozoic Benthic Foraminiferal Biostratigraphy and Paleoceanography, Leg 114,
7/1/87-6/30/88, **\$17,000**

Miller
Consortium of Oil Companies: Benthic Foraminiferal Studies, 1982-1991(LDEO and Rutgers),
\$15,000-20,000 per annum

Miller
ARCO scholar/Lamont-Doherty Geological Observatory, 1983, **\$20,000**