

August 2021

Kenneth George Miller

Stratigrapher, Paleoceanographer, & Micropaleontologist

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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:

2013-present. Distinguished Professor, Rutgers University, New Brunswick.

2019-2024. Graduate Program Director, Earth and Planetary Sciences, Rutgers University

2000-2013. Professor II, Rutgers University, New Brunswick.

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

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 Program Director, Geological Sciences, Rutgers University.

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

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

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.

1993-2014. Chief scientist, New Jersey Coastal Plain Drilling Project, ODP Legs 150X & 174AX

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

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

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

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

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

1980. Instructor, Sea Education Association 2013-present. Distinguished Professor, Rutgers University, New Brunswick.

2019-2021. Graduate Program Director, Earth and Planetary Sciences, Rutgers University

2000-2013. Professor II, Rutgers University, New Brunswick.

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

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 Program Director, Geological Sciences, Rutgers University.

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

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

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.
 1993-2014. Chief scientist, New Jersey Coastal Plain Drilling Project, ODP Legs 150X & 174AX
 1988-1993. Adjunct Research Scientist, Lamont-Doherty Earth Observatory.
 1988-1993. Associate Professor, Rutgers University, New Brunswick.
 1983-1988. Associate Research Scientist, Lamont-Doherty Geological Observatory.
 1982-1983. Post-doctoral fellow, Lamont-Doherty Geological Observatory.
 1978-1982. Graduate research assistant, Woods Hole Oceanographic Institution.
 1980. Instructor, Sea Education Association.

Academic Awards:

2018. Laurence L. Sloss Award, Geological Society of America.
 2014-2015. American Association Petroleum Geologists Distinguished Lecturer.
 2007-2009. DOSECC Distinguished Lecturer.
 2007. Fellow, American Geophysical Union
 2007. Henry Rutgers Scholar Lecturer.
 2006. JOI Distinguished Lecturer.
 2003. Rosenstiel Award, University of Miami.
 2000. Fellow, Geological Society of America.
 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:

Jurassic-Cenozoic sea-level and paleoceanographic changes.
 Sequence stratigraphy.
 Integration of isotopic, bio-, magneto-, and seismic stratigraphy.
 Foraminiferal stable isotope stratigraphy and paleoceanography.
 Foraminiferal biostratigraphy, paleoecology, and paleobiogeography.

Professional Societies:

Fellow Geological Society of America.
 Fellow American Geophysical Union.
 Patron Cushman Foundation for Foraminiferal Research
 Member American Association for the Advancement of Science

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

- 2020-2023. Member, JOIDES Resolution Facilities Board, International Ocean Discovery Program.
- 2020-2024. Chair, Subcommission on Neogene Stratigraphy of the International Commission on Stratigraphy
2020. Editor, International Ocean Discovery Program Science Framework.
2020. Co-convenor, Drill, baby drill, special session at the Geological Society America Northeastern Section meeting.
- 2019-2020. International Ocean Discovery Program NEXT Steering Committee.
2019. Co-convenor, Scientific Ocean Drilling's Impact on Geoscience: Past, Present, and Future, Geological Society America Annual Meeting.
2019. Co-convenor, Paleocene–Eocene Thermal Maximum Recorded in Continental Margin Sections: Constraining Timing and Cause of Carbon Injection, Geological Society America Annual Meeting.
- 2018-present. Board Member, Cushman Foundation for Foraminiferal Research.
- 2015-2019. Co-Chair, Science Evaluation Panel, International Ocean Discovery Program.
- 2014-2019. Member, Science Evaluation Panel, International Ocean Discovery Program.
2013. Co-convenor. PP53B. Paleo-Sea level: Core Record and Modeling Constraints on Rates and Processes, AGU Annual Meeting.
- 2012-2019. Vice Chair, Subcommission on Neogene Stratigraphy of the International Commission on Stratigraphy.
2011. Co-Convener. Climate Change and Coastal Hazards, Rutgers University Outreach Conference.
2010. Participant, NRC Scientific Ocean Drilling Workshop, College Station, TX.
2009. Co-Convener, DOSECC Workshop on the Future of Continental Scientific Drilling, Denver, June 4-5.
2007. Co-Convener, Technical Sessions (3), The Chesapeake Bay Impact Structure, Geological Society of America Ann. Mtg. Denver.
2007. Co-Convener, International Sea-level Workshop, Oct. 2007, Salt Lake City.
2007. Co-Convener, 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, Bremen, Germany.
- 2006-2007. Member, Integrated Ocean Drilling Program (IODP) Science Advisory Structure Executive Committee (SASEC).
- 2006-2012. Member, Science Planning Committee, DOSECC
2006. Tahiti Coring Expedition 304 Review Committee (Tahiti REVCOM)
2006. Co-Convener, Sealaix06, International conference on sea-level changes, Giens, France.
2006. Co-Convener, 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-Convener, Relationships among seafloor spreading, long-term sea level, and ocean chemistry changes from the Late Cretaceous to Present, June 21-22, Rutgers University.
2004. Arctic Coring Expedition 302 Review Committee (ACEX REVCOM)
- 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.
- 2003-2011. Vice Chair, DOSECC.
- 2002-2014. Member, Board of Directors, DOSECC.

2002. Panel member, National Science Foundation, International Research Fellowship Program.
2001. Co-Convener, 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. Convener, Technical Session, Geological Society of America, Ann. Meeting.
1994. Convener, Technical Session, Geological Society of America, Ann. Meeting.
- 1990-1992. JOIDES Sea-level working group.
1991. JOIDES Rifted margins detailed planning group.
1991. Convener, Symposium on The Global Climate Transition from the Late Paleocene to Early Eocene, Geological Society of America, Ann. Meeting.
1991. Convener, 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. Convener, Symposium on Cenozoic Deep-Sea Foraminifera: Distribution and Environments, Geological Society of America, Ann. Meeting.
1989. Convener, Symposium on Cenozoic Deep-Water Evolution, AGU Spring Mtg.
1989. Convener, 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. Convener, Symposium on Plio-Pleistocene Paleooceanography in the North Atlantic, Internat. Union Quaternary Res. XII Internat. Congr.
1987. Convener, Sea level and the stratigraphic record, Symposium held at Lamont-Doherty.
1983. Convener, Symposium on the Eocene/Oligocene boundary, American Association of Petroleum Geol. Ann. Meeting.
1983. Session Chair, Geological Society of America, Ann. Meeting.

Invited Speaker

2021. University of South Florida, SQS – INQUA GELSTRAT Workshop, Palermo, Italy.
2020. Montclair University.

2019. University of Bremen, University of Exeter, Utrecht University, Brown University, Mercer County Community College.
2018. Raritan Valley Community College.
2017. Rice University, Queens College (CUNY), Rutgers Energy Institute, Environmental Stewards (Burlington County).
2016. British Geological Survey (Keyworth).
2015. Princeton University, Pennsylvania State University, Geological Society of New Jersey (GANJ), Rutgers Department Earth and Planetary Sciences, University of Aberdeen, University of Manchester, University of Leeds, Durham University, Imperial University, American Institute of Architects Newark and Suburban Architects, Red Bank Humanists, Rutgers Environmental Stewards (Egg Harbor).
2014. University of Massachusetts, Louisiana State University, University of Oklahoma, Albuquerque Geological Society, Four Corners Geological Society, Rutgers Environmental Stewards (Egg Harbor), Long Beach Island Foundation, Holmdel Historical Society, Jersey Shore Chapter Sierra Club.
2013. Rutgers Geology Museum Open House (Sandy), Great Swamp Watershed Association, Rutgers Earth and Planetary Sciences colloquium, Association of Environmental and Engineering Geologists (Somerset, NJ), Rutgers Environmental Stewards (Egg Harbor), Pines at Whiting (Senior group), AGU Science Policy Meeting (Washington, D.C.), City of Water Day (Liberty State Park), Student Conservation Association (Piscataway), Ocean Studies Board (Monmouth University).
2012. Rutgers Geology Museum Open House (K/Pg and PETM), Waretown Seniors, Inaugural Mid-Atlantic Conference (Soil to Sea Geomorphology).
2011. New Jersey Department of Environmental Protection, Danish Geological Survey.
2010. American Museum Natural History, Brookdale College, U.S.G.S. Menlo Park, ECORD Summer School Bremen, National Research Council Scientific Ocean Drilling Workshop, Bass River State Forest summer program, Oxford University, Imperial College, Rutgers Institute of Marine and Coastal Sciences, Brick Rotary Club, AA State Geologists Field Trip (K/Pg).
2009. University of Bremen, 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 (Capitol Hill), Renaissance Village (retirement community).
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

2020-2023. Member, Executive Council Rutgers School of Graduate Studies.
 2018-2019. Chair, EPS search committee.
 2016-2019. Rutgers University Senate.
 2014-2015; 2018-2019. Henry Rutgers Professor Earth, Oceans, and Atmospheric Sciences search committee.
 2010-2017. Member, Executive Committee, Graduate School New Brunswick.
 2013. "Understanding and Creating a Sustainable World" Strategic Planning Committee.
 2013, 2014. A&P Professor Committee.
 2011-2012. IMCS faculty search committee.
 2011. IMCS post-doc committee.
 2009-2011. Bennett Smith Chair search committee.
 2009-2010. Future of the School of Arts and Sciences committee.
 2008. Nominating committee, Graduate School New Brunswick.
 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, Paleooceanography, 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 Non-tenured Committee.
 1990. Selection Committee, Structural Geologist, Department of Geological Sciences.
 1990. Designed new undergraduate course, Geological Modeling.
 1988-2007. Fellow, Rutgers College.

Student Committees

2019. Pragma Pande, Indian Institute of Technology Roorkee.
 2018. Georgia Grant, Ph.D., Victoria University.
 2018. Megan Fung, Ph.D., Rensselaer Polytechnic Institute.
 2016. Nicole Abdul, Ph.D., Rutgers University, New Brunswick.
 2016. Richard Mortlock Ph.D., Rutgers University, New Brunswick.
 2015. Lindsey Lugin M.S., Rutgers University, New Brunswick.
 2015. Lauren Neitzke, Ph.D., Rutgers University, New Brunswick.
 2014. Firat Gocmenoglu, M.S., Rutgers University, New Brunswick.
 2013. Tuçe Değirmenci, M.S., Rutgers University, New Brunswick.
 2013. Alex Fiore, M.S., Rutgers University, New Brunswick.
 2013. Tali Babila, Ph.D., Rutgers University, New Brunswick.
 2013. David Bord, Ph.D., Rutgers University, New Brunswick.
 2012. Sarp Karakaya, M.S., Rutgers University, New Brunswick.
 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/Aresty Fellows

2018. Lucia Bellino, Aresty Fellow.
 2018. Sophie Benaroya, summer intern Rutgers.
 2017. Mariya Galochkina, Aresty Fellow summer and academic year.
 2016. Jill Park, Aresty Fellow.
 2014-2015. Matthew Richtmeyer, Aresty Fellow.
 2014. Colleen Walsh, Rutgers University.
 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 Theses/Independent Study

2020. Kyle Maw, Ronan Keating, SAS.
 2019. Mariya Galochkina, SAS
 2015. Michael Farzaneh, SAS.
 2012. William Pilesky, SAS.
 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

- (in progress) Ashlyn Spector, Rutgers University, New Brunswick.
 (in progress) JN Stanley, Rutgers University, New Brunswick.
 (in progress) Victor Pincay, Rutgers University, New Brunswick.
 2020. Oliver McLellan, Rutgers University, New Brunswick.
 2019. Alexandra Adams, Rutgers University, New Brunswick.
 2019. Leslie Jordan, Rutgers University, New Brunswick.
 2018. Stephen Graham, Rutgers University, New Brunswick.
 2018. Luca Podrecca, Rutgers University, New Brunswick.
 2017. Gabriel Gallegos, Rutgers University, New Brunswick.
 2013. Turan Işçimen, Rutgers University, New Brunswick.
 2013. Maria Makarova, Rutgers University, New Brunswick.
 2013. Christopher Lombardi, Rutgers University, New Brunswick.
 2013. Roni Dell Baluyot, Rutgers University, New Brunswick.
 2012. Zuhail Seeker, Rutgers University, New Brunswick.
 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), Anya Hess, Rutgers University, New Brunswick.
 (in progress), William John Schmelz, Rutgers University, New Brunswick.
 2019. Christopher Johnson, Rutgers University, New Brunswick.
 2018. Maria Makarova, Rutgers University, New Brunswick.
 2017. Christopher Lombardi, Rutgers University, New Brunswick.
 2016. Jesse Thornburg, Rutgers University, New Brunswick.
 2014. Selen Esmeray, Rutgers University, New Brunswick.
 2013. 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

2018-2020. Maria Makarova, Rutgers University, New Brunswick.
 2012-2014. Stella Woodard, IMCS, Rutgers University, New Brunswick.
 2005-2006. Bridget Wade, Rutgers University, New Brunswick.
 2002-2004. Bas van de Schootbrugge, IMCS, 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

2020. Sedimentary Geology (graduate).
 2018, 2019, 2020. Sedimentary Geology (undergraduate).
 2012 (W), 2013-2019 (W, SI, SIII) Environmental Geology (online version).
 2011S, 2012S, 2013S, 2014S, 2015F, 2016F, 2017F, 2019S, 2021S Sea Change: The rise and fall of sea level and the Jersey shore.
 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, 2018, 2020. Marine Geology.
 1988-2016. Stratigraphy.
 1991, 1998, 2001, 2003, 2009, 2011, 2014, 2018. Paleoceanography.
 1993, 1995, 2000. Sedimentary Geology (graduate).
 1987-1991. Oceans and Continents (102).
 1989, 1992. Mesozoic-Cenozoic Stratigraphy (graduate).
 1991, 1997, 2006, 2010, 2012, 2013, 2015, 2016, 2017 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, 2005-2016. Exxon, Sr-isotopic stratigraphy, various amounts.
 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.
 2010, 2013. Met with New Jersey Department of Environmental Protection Commissioner Bob Martin and his staff to discuss the implications of sea-level projections.
 2011. Met with New Jersey Governor Chris Christy to discuss climate and sea-level change.

List of Publications

Peer Reviewed

Author of over 150 peer-reviewed publications (64 senior authored) and four books. As of March 2019, 10,879/23,000 citations and h-indexes of 55/75 from Thomson Reuters and Google, respectively.

2021

- Schmelz, W. J., Miller, K.G., Kopp, R., Mountain, G.S., and Browning, J.V., 2021, Influence of mantle dynamic topographical variations on US mid-Atlantic continental margin estimates of sea-level change: *Geophysical Research Letters*, v. 48, p. 2020GL090521. <https://doi.org/10.1029/2020GL090521>
- Sugarman, P.J., Miller, K.G., Browning, J.V., McLaughlin, P.P., Jr., and Kulhanek, D., 2021, Late Cretaceous (Turonian-Coniacian) sequence stratigraphy, sea level, and deltaic facies, Magothy Formation, U.S. Middle Atlantic Coastal Plain, *Stratigraphy*. v. 18 (1), 1–27, <https://doi.org/10.29041/strat.18.1.01>.
- Podrecca, L.G., Makarova, M., Miller, K.G., Browning, J.V., and Wright, J.D., Clear as mud: Expanded records of the Paleocene-Eocene Thermal Maximum onset in the Appalachian Amazon, *Geology*.

2020

- Miller, K.G., Browning, J.V., Schmelz, W.J, Kopp, R.E., Mountain, G.S., and Wright, J.D., 2020, Cenozoic sea-level and cryospheric evolution from deep-sea geochemical and continental margin records, *Science Advances* 6: eaaz1346.
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Current and Pending Support
Kenneth G. Miller

Current:

Title: Midwestern Regional Carbon Sequestration Partnership (MCRSP): Rutgers
Source: Battelle (DOE)
Award Amount: \$527,633+cost share
Award Period: 8/25/2013-12/31/2019
Time Committed: 0.75 summer months/annum

Title: Eocene-Pliocene Paleoclimatic and Paleoceanographic Evolution: The Western North Atlantic Transect OCE1657013
Source: NSF-OCE – Marine Geology and Geophysics
Award Amount: \$312,778
Award Period: 10/01/2017-09/30/2019
Time Committed: 1 month/annum

Title: The Rutgers-IODP Core Repository Curation of IODP Leg150X and 174AX
Source: TMARF
Award Amount: \$64,251/annum
Award Period: 11/1/2018-10/31/2023
Time Committed: 0.25 summer months/annum

Pending

Funding History

NSF

- NSF/OCE/ODP OCE- OCE14-63759: Renewal of Curation of ODP Legs 150X and 174AX cores: The Rutgers Core Repository, **\$245,778**, 07/01/2015-01/31/2019, 0.75 summer months/annum
- NSF/OCE/ODP OCE-1154379 Renewal of Curation of ODP Legs 150X and 174AX cores: The Rutgers Core Repository, **\$204,296**, 07/01/2012-06/30/2015, 0.5 summer months/annum.
- NSF/ EAR/SGP 10-52257 Pliocene peak sea level and warmth: Integration of a Virginia corehole array and deep-sea isotope and trace metal records, **\$75,488**, 2/1/2012-1/31/2013, 0.75 summer months total.
- NSF/OCE/ODP OCE-0751757, Archiving and Advancing Core Curation and Database Management of ODP Legs 150X and 174AX cores: The Rutgers U.S. Atlantic Margin Core Repository (OCE-0751757), **\$160,643** 11/08/07 – 11/30/10, Miller, Kent, Browning, 0.5 summer months per annum.
- NSF/EAR-Sedimentary Geology 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/MGG OCE-0623256 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 OCE-0623883, 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 EAR-0606693 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 EAR-0307112 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 EAR-0506720 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/EAR-0213239 Acquisition of a Multicollector Thermal Ionization Mass Spectrometer, 05/15/2003-04/30/2005, **\$270,000**, 0, RU, Feigenson, Carr, and Miller
- NSF/OCE-0095219 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, **\$4,126,495.25**, RU, Falkowski, Miller et al.
- NSF/EAR-9909179 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 EAR-9708664 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 EAR-9816252 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
- EAR-9708664 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 OCE-9726273 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)
- EAR-9505957 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 EAR-9417108 Renewal of Depositional Sequences on the New Jersey Coastal Plain: A Drilling Proposal, **\$295,993** to Rutgers
- EAR-9218210 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
- OCE-9100933 Paleogene chronology: Global correlations, 6/15/91-6/14/92 **\$48,524** (LDEO only)
- OCE-8911810 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
- OCE-8817563 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
- OCE-8811834 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.

OCE-8700005 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

OCE-8600249 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

OCE-8500859 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

OCE-8521690 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

OCE-8310086 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

USSSP, IODP Science Evaluation Panel Chair Support, \$251,033, 10/1/16-08/30/19, 2.0 months/annum.

DOE/Battelle Mid-Atlantic Offshore Carbon Storage Resource Assessment Project: Rutgers, **\$486,037** (not including cost share) + **\$90,000** supplement, 9/1/2015-6/30/2019, 0.75 summer months/annum.

DOE/Battelle Midwestern Regional Carbon Sequestration Partnership (MCRSP): Rutgers, **\$568,800**, 7/1/2012-6/30/2016, 4 summer months.

New Jersey Sea Grant Consortium; Development of historically-calibrated sea level rise projections for risk management along the New Jersey Shore, **\$139,784**, 2/1/14-1/31/16, 0.25 summer months/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

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.

- The Ancora and Corson's Inlet Boreholes: A proposal to the New Jersey Geological Survey
1/1/98-12/31/99, **\$30,000** (Rutgers)
- 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**
- New Jersey Geological Survey, Bass River corehole project, 4/1/96-3/31/97, **\$175,000** (Rutgers)
- Consortium of oil companies, 1992-1998, **\$18,000-\$25,000** per annum (LDEO)
- 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)
- 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)
- ARCO, Studies of two Mississippi boreholes, 1/1/1994-12/31/1994, **\$20,000**
- JOI/USSAC, Co-chief scientist salary support, 5/30/93-11/30/94, **\$58,094**
- JOI/USSAC Sr Isotopic Correlations of Upper Eocene to Middle Miocene Sequences, NJ
Continental Slope, 12/1/93-11/30/94, **\$16,960**
- JOI/USSAC Magnetostratigraphy of Leg 150 sediments, 12/1/93-11/30/94, **\$16,458**.
- JOI/USSAC Eocene to Pliocene benthic foraminiferal biofacies, paleoenvironment and
paleobathymetry of the NJ margin, 12/1/93-11/30/94, **\$18,192**
- JOI/USSAC Isotopic and Faunal Record of Paleogene Climate Transitions, Leg 145
1/1/93-12/31/93, **\$15,078**
- JOI/USSAC
Cenozoic Benthic Foraminiferal Biostratigraphy, Paleobathymetry, and Paleoceanography, Leg
133, 3/1/91-2/28/92, **\$21,224**
- Chevron U.S.A. Upper Eocene to Pliocene Strontium Isotope Stratigraphy, 01/01/89-11/31-90,
\$20,000
- JOI/USSAC Cenozoic Benthic Foraminiferal Biostratigraphy and Paleoceanography, Leg 114,
7/1/87-6/30/88, **\$17,000**
- Consortium of Oil Companies: Benthic Foraminiferal Studies, 1982-1991 (LDEO and Rutgers),
\$15,000-20,000 per annum
- ARCO scholar/Lamont-Doherty Geological Observatory, 1983, **\$20,000**