

Maureen E. Raymo

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Education

1982 Sc.B. Geology, Brown University (Providence, RI)
1985 M.A. Geology, Columbia University (New York, NY)
1988 M. Phil. Geology, Columbia University (New York, NY)
1989 Ph.D. Geology, Columbia University (New York, NY)

Research Interests

Paleoclimatology, paleoceanography, isotope geochemistry, climate modeling, and the connections between plate tectonics, orbital insolation, the global carbon cycle and climate.

Research/Teaching Positions

Research Professor, Dept. of Earth Sciences, Boston University, 2003-present
Research Associate Professor, Dept. of Earth Sciences, Boston University, 2000-2003
Adjunct Scientist, Woods Hole Oceanographic Institute, 2001-2007
Associate Professor, Dept. Earth, Atmospheric, and Planetary Sciences, MIT, 1997-2000
Assistant Professor, Dept. Earth, Atmospheric, and Planetary Sciences, MIT, 1992-1997
Assistant Professor, Dept. Geology and Geophysics, University of California, Berkeley, 1991-1992
Adjunct Associate Research Scientist, Lamont-Doherty Geological Observatory, 1989-1994
Associate Scientist, Geology Dept., University of Melbourne, Australia, 1989-1990
Visiting Research Fellow, Meteorology Dept., University of Melbourne, Australia, 1989-1990
Graduate Research Assistant, LDGO and Dept. of Geology, Columbia University, 1983-1989
Research Assistant, Lamont-Doherty Geological Observatory, 1982-1983
Undergraduate Research Assistant, Geology Department, Brown University, 1979-1982

Honors/Awards

Bausch and Lomb Science Award, 1978
Sigma Xi, elected 1989
National Young Investigator Award, National Science Foundation, 1992
Cecil and Ida Green Career Development Chair, MIT, 1993
Joint Oceanographic Institutions/USSAC Distinguished Lecturer, 1994-1995
Robert L. and Bettie P. Cody Award in Ocean Sciences, Scripps Institution of Oceanography, 2002
Discover Magazine, 50 Most Important Women in Science, November 2002
John Simon Guggenheim Fellow, 2003-2004
Emiliani Lecture, Fall AGU, 2005
Fellow, AAAS, elected 2007

Professional Affiliations

American Geophysical Union, Geological Society of America, American Physical Society, AAAS.

Selected Invited Lectures

Invited speaker, 3rd International Conference on Paleoceanography, Cambridge, England, 1989
Keynote Address, Chapman Conference on Tectonics and Topography, Snowbird, UT, 1992
Invited speaker, "Frontiers of Physical Sciences" Symposium, AAAS Ann. Meet., Boston, 1993
Invited speaker, "Fifth Annual Symposium on Frontiers of Science", National Academy of Sciences, Irvine, CA, 1993
Invited speaker, National Academy of Sciences 131st Annual Meeting, Washington, D.C., 1994
Invited speaker, 5th International Conference on Paleoceanography, Halifax, Canada, 1995
Mountain Research Center Distinguished Lecturer, Montana State University, 1996
Invited speaker, "The Bicentennial Conference: Charles Lyell and James Hutton", Roy. Soc. of Edinburgh, Edinburgh, 1997
Invited speaker, "Fifty Years of Ocean Discovery-NSF", National Academy of Sciences, Washington, D.C., 1998
Inaugural Lecturer, WISE Public Lecture Series, Syracuse University, 1998
Distinguished Visiting Lecturer, Spring 2002 Series, College of Sciences, Old Dominion University, 2002
Invited speaker, "Future Challenges for Marine Sciences in Canada - 40th Anniversary Symposium", Bedford Institute of Oceanography, 2002.
Keynote Speaker, GEODAZE 2005, Univ. of Arizona, April 2005.
2005 Snee Graduate Organization Guest Geologist, Cornell University, Oct. 2005.
Rochester Institute of Technology, College of Science Distinguished Speaker Series, May, 2006.
John Wesley Powell Memorial Lecture, SWARM-AAAS, 2006.
Marjory Stoneman Douglas Lecture, Wellesley College, April 10th, 2007.
Keynote Speaker, Goldschmidt Conference, Cologne, Germany, Aug. 24, 2007.

Selected Professional Activities

Shipboard Paleontologist, Leg 108, R/V *Resolution*, Ocean Drilling Program, 1986
Committee member of "Pliocene Time Scale Working Group" of the International Union of Geological Sciences Subcommittee on Neogene Stratigraphy, 1991
Member, JOIDES Ocean History Panel, 1992-1994
Chairman, ODP Detailed Planning Group, North Atlantic-Arctic Gateways, 1993
Editorial Board, *Geology*, 1993-1998
Visiting Committee, Dept. of Earth and Planetary Sciences, Harvard University, 1993-1999
Comm. on Paleoceanography and Paleoclimatology, American Geophysical Union, 1994-1999
NSF, Marine Geology and Geophysics proposal review panels, 1995, 1997, 2007
Co-chief Scientist, Leg 162, R/V *Resolution*, Ocean Drilling Program, 1995
Member, ODP Detailed Planning Group, Blake-Burmuda Rise Drilling, 1996
Member, NSF FUMAGES Working Group on Climate and the Sediment Record, 1996
Member, JOIDES Science Committee (SCICOM), 1997-1999
Visiting Committee, Monterey Bay Aquarium Research Institute, 1999
Session Chair, Conference of Multiple Platform Exploration (COMPLEX), Vancouver May 25-29th, 1999
Editor Search Committee, *Paleoceanography*, 2000
Consultant, *The Teacher-Friendly Guide to the Geology of the Northeastern U.S.* by J. Ansley and the Paleontological Research Institution, 2001
Electorate Nominating Committee of the AAAS Section on Geology and Geography, 2001-2004 (Committee Chair, 2003-2004).

Macelwane Medal Committee, AGU, 2002-2004
Program Review Committee, Earth System History (ESH), NSF 2006.
Scientific Steering Committee, IODP Topical Symposium Program, 2006-07.
IODP SASEC (Science Advisory Structure Executive Committee of the Integrated Ocean Drilling Program), Vice-Chair, 2007-present

Symposia and Meetings Convened

Tectonic History and Climatic Impact of Himalayan/Tibetan Uplift, Special Session, Fall AGU (w/ P. Molnar), 1991
Global Change Symposium, Goldschmidt Conference, May 8-10, Reston VA (w/ M. Pavich), 1992
Conference on Uplift, Erosion and Climate Conference, LDEO, Nov. 9-10 (w/ W. Broecker), 1992
New Perspectives on the 100 Kyr Climate Cycle, Special Session, Fall AGU (w/ S. Clemens), 1996
Leg 162 Post-cruise Scientific Meeting, Long Island, Bahamas, March 17-20th, 1997
The Timing and Oceanographic Consequences of the Closing of the Panama Isthmus Conference, LDEO, October 13-14 (w/ W. Broecker and P. de Menocal), 1997
Discussion panel, Cenozoic Climate Change, 6th International Conference on Paleoceanography, Lisbon, Aug. 23-28th (w/ W. Berger), 1998

Departmental Lectures

Monash University, Australia, 1989; Melbourne University, Australia, 1989; MIT, September, 1989; UC-Berkeley, 1990; UF-Gainesville, 1990; Michigan State, Lansing, 1990; UNC-Chapel Hill, 1990; Washington University, MO, 1990; Contra Costa College, Richmond CA, March 2, 1991; Cal State-Hayward, 1991; UC-Santa Cruz, 1991; Lawrence Livermore Labs, 1991; University of Colorado at Boulder, November 6th, 1991; INSTAAR-Boulder, November 7th, 1991; MIT, 1991; Harvard University, December 18th, 1991; UC-Santa Barbara, February 7th, 1992; California Institute of Technology, February 24th, 1992; UC-Berkeley, Soil Science Department, April 22nd, 1992; Scripps Institution of Oceanography, May 1st, 1992; Brown University, February 25th, 1993; Pennsylvania State University, April 6th, 1993; University of Massachusetts, Amherst, May 7th, 1993; NASA Goddard Space Flight Center, June 16th, 1993; University of Michigan-Ann Arbor, September 26th, 1993; Boston Bay Group, Cambridge, MA, October 20th, 1993; Knight Fellows lecture, MIT, October 29th, 1993; Univ. of Rhode Island (GSO), April 22nd, 1994; WHOI, August 11th, 1994; Dickinson College, JOI/USSAC Distinguished Lecturer, October 28th, 1994; Vanderbilt University, JOI/USSAC Distinguished Lecturer, March 16th, 1995; Fairfield College, March 30th, 1995; Lamont-Doherty Earth Observatory, March 31st, 1995; Appalachian State College, JOI/USSAC Distinguished Lecturer, April 18th, 1995; Dartmouth College, May 12th, 1995; University of Iowa, October 20th, 1995; Mountain Research Center Distinguished Lecture, Montana State University, Feb. 22nd, 1996; Yale University, October 7th, 1996; University of Washington, Seattle, December 4th, 1996; WHOI Geodynamics Seminar, March, 1997; Knight Fellows lecture, MIT, November 5th, 1997; Univ. of Rhode Island (GSO), April 17th, 1998; Boston College, April 23rd, 1998; University of Miami, April 24th, 1998; Duke University, April 30th, 1998; Rice University, September 24th, 1998; Boston University, October 19th, 1998; University of Kansas, Lawrence, October 22nd, 1998; University of Illinois, Urbana, October 23rd, 1998; University of South Florida, St. Petersburg, November 20th, 1998; Brown University, December 15th, 1998; Lamont-Doherty Earth Observatory, January 8th, 1999; Syracuse University, WISE Public Lecture Series, Inaugural lecturer, March 8th, 1999; Scripps Institution of Oceanography, March 17th, 1999; University of Washington, Seattle, April 14th, 1999; University of Washington, Seattle, April 15th, 1999; University of Michigan, Ann Arbor, April 16th, 1999; University of Indiana, Dept. of Physics, Bloomington, November 15th, 2000; University of Massachusetts, Boston, Dept. of Biology, March 2nd, 2001; Five College Lecture Series, Hampshire College, March 7th, 2001; Scripps

Institution of Oceanography, January 24th, 2002; Scripps Institution of Oceanography, Public Lecture, January 25th, 2002; Distinguished Visiting Lecturer, College of Sciences, Old Dominion Univ., April 16th (2 talks), 2002; University of California, Santa Cruz, May 9th, 2002; Stanford University, May 10th, 2002; Los Alamos National Laboratory, Frontiers in Geoscience Colloquium, July 11th, 2002; Princeton University, March 10th, 2003; Lamont Doherty Earth Observatory, March 11th, 2003; Rutgers University, March 12th, 2003; Bentley College, October 18th, 2004; Harvard University, Oct. 25th, 2005; Brown University, March 13th, 2006; Bentley College, Oct. 10th, 2006; Lamont Doherty Earth Observatory, Nov. 3rd, 2006; Graduate School of Oceanography, URI, Nov. 29th, 2006; Center for Space Physics, Boston U., Nov. 30th, 2006; Bates College, March 23rd, 2007; Rice Univ. Oct. 11th, 2007; Bentley College, Oct. 22, 2007.

Students/Post-docs

Post-doc

Lorraine Lisiecki Ph.D., Brown U., 2005

Primary Advisor or Co-Advisor

Kristina Faul Undergraduate Thesis, MIT, 1993
 Kristina Dahl Undergraduate Thesis, BU, 1999
 Darrel Coles S.M., MIT, 1999
 Brigitte Brunelle Undergraduate Thesis, BU, 2002
 Susan Carter MIT/WHOI
 Kerim Nisancioglu Ph.D., MIT, 2004
 Benjamin Costanza M.A., B.U., 2007

Graduate Generals Project Advisor

MaryAnn Schlegel S.M., MIT/WHOI, 1998
 Michael Horowitz S.M., MIT/WHOI, 1999
 Kirsten Laarkamp Ph.D., MIT/WHOI, 2000
 Mark Behn Ph.D., MIT/WHOI, 2002
 Amy Draut Ph.D., MIT/WHOI, 2003

Thesis Committees

Kevin Walsh Ph.D., Univ. of Melbourne, 1994
 Chris Forest Ph.D., MIT, 1996
 Meg Coleman Ph.D., MIT, 1996
 Susan Alderman S.M., MIT-WHOI, 1996
 Gerard Roe Ph.D., MIT, 1999
 Robert Ackert Ph.D., MIT-WHOI, 2000
 Lorraine Lisiecki Ph.D., Brown U., 2005
 Julia Becker Ph.D., Utrecht U., 2005
 Kira Lawrence Ph.D., Brown U., 2006
 Sindia Sosdian Ph.D., Rutgers U., 2007

Undergraduate Research Project Advisor

Chelle Gentemann	MIT, Fall 1992
Alexandra Weeks	Wellesley College, Spring 1993-Spring 94
Rosanna Yuen	MIT, Summer 1994
Meiling Pan	MIT, Fall 93 - Spring 95
Janelle Brown	MIT, Fall 94-IAP 95
Jessica Walko	MIT, Fall 94 - Spring 96
Helen Hsu	MIT, Spring 95- Spring 96
Amanda Breed	Wellesley High School, Spring 1996
Patricia Bradshaw	Willamette University, Summer 1996
Claudette Reyez	U. Puerto Rico, Summer 1996
Veronica Vieira	MIT, Spring 96-Summer 98
Mike Barboza	MIT, Fall 97
Nina Kutsuzawa	MIT, Spring 97-IAP 98
Susan Lang	MIT, IAP 98-Spring 98
Atreyee Gupta	MIT, Summer 98-Spring 99
Helena Fu	MIT, Fall 98
Jennifer Stout	MIT, Fall 98-Spring 99
Jennifer Szlosek	MIT, IAP 99-Spring 99
April Deet	MIT, Summer 99-Spring 00
Alexandra Molnar	MIT, Summer 99-Spring 00
Brigitte Brunelle	BU, 2001-2002
Greer Dolby	BU, Fall 2006-present
Drew Fetterman	BU, summer 2006-Winter 2007
Kelley Rabjohns	BU, fall 2007-

Teaching Experience

Geologic Record of Climate Change (U. of Melbourne, 1990)
Sedimentation and Stratigraphy (U. of Melbourne, 1990)
The Global Carbon Cycle (UC-Berkeley, 1991)
Geologic Record of Climate Change (UC-Berkeley, 1991)
Climate Change (Freshman seminar, MIT, 1993-1998)
Climate Change: Past, Present, and Future (MIT, 1993, 1996)
Pre-Pleistocene Paleoceanography (MIT, 1993, 1995)
Special Topics In Paleoceanography (MIT, 1994, 1999)
Marine Geology and Geophysics (MIT, 1994-1998)
Climate Physics and Chemistry (MIT, 1996-1999)
Experimental Oceanography at Woods Hole (MIT, 1997)
Field Oceanography (taught at the Caribbean Marine Research Center, MIT, 1998, 1999)