

CURRICULUM VITAE

PETER B. de MENOCA

Professor

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Research Interests:

Ocean sediments are remarkable archives of past environmental change and they can be used to document how and why past climates have changed. I explore examples from the geologic past when climate may have shaped life, including key transitions in ancestral human culture and early human evolution. I am the founding Director of Columbia's Center for Climate and Life, whose mission is to mobilize climate and life scientists to understand how climate change impacts life's essentials - food, water, shelter - and to explore sustainable energy solutions.

Education:

B.Sc. Geology, St. Lawrence University, *cum laude*, Honors in Geology (1982).

M.Sc. Oceanography, Graduate School of Oceanography University of Rhode Island (1986).

Ph.D., M. Phil. Geology. Columbia University. Thesis title: "Pliocene-Pleistocene Evolution of Tropical Aridity".

Committee: Dr. William F. Ruddiman, advisor, Wally Broecker, Dennis Kent, Paul Olsen (1992).

Sc. D. (hon. causa) St. Lawrence University (2009).

Academic Appointments

2015	Founding Director. Columbia Center for Climate and Life
2015-2018	Associate Chair, Columbia Earth Institute Faculty
2011- 2014	Department Chair, Department of Earth and Environmental Sciences
2009- present	Professor, Earth Institute, Columbia University
2007- present	Professor, Dept. of Earth and Environmental Sciences, Columbia University
2003-2007	Associate Professor, Dept. of Earth and Environmental Sciences, Columbia University
2004	Visiting Professor, Université Aix-Marseilles 3. CEREGE (invitation Edouard Bard)
1999-2003	Assistant Professor, Dept. of Earth and Environmental Sciences, Columbia University

Professional experience

1992-1998	Associate Research Scientist, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY 10964
1992	Post-Doctoral Research Scientist, Lamont-Doherty Earth Observatory of Columbia University.
1986-1992	Graduate Research Assistant, Lamont-Doherty Earth Observatory of Columbia University.
1982-1986	Graduate Research Assistant, Graduate School of Oceanography, Univ. of Rhode Island.
1981	GECO Geophysical Company of Norway (US), Inc., Houston, Texas.
1980	Fisherman, Icelandic fishing fleet (Höfn)
1978	Alaska Gold Company, Nome, AK.

Awards and Honors

2014	AGU Cesare Emiliani Lecturer (awarded to "individuals who have made outstanding scientific contributions to our understanding of past oceans and climates")
2013	Distinguished Brooksonian Award (Brooks School, North Andover, MA. Awarded to a member of the Brooks community "whose life and contributions to society exemplify the nobility of character and usefulness to humanity embodied in the spirit of the school")
2012	Fellow, American Geophysical Union
2009	Professor of the Year award, Lamont-Doherty Earth Observatory
2009	Sci. D. (Honorary) St. Lawrence University

2008 Lenfest Distinguished Columbia Faculty Award (excellence in Scholarship and Teaching)
 2007 Elsevier "Top 50" highly cited paper award, (deMenocal, 2004) – still in top 10 downloads!
 1989 Bruce Heezen Award. Lamont-Doherty Earth Observatory (for excellence in graduate research).
 1984 Argonne National Laboratories, Graduate research award for research in nuclear waste management.
 1983 Sandia National Laboratories, research assistantship with the Low-Level Waste Ocean Disposal Project (LLWODP).

Named Lectureships

2016 Presidential Plenary Lecture. Archeological Inst. Of America (San Francisco)
 2015 CARTA UC San Diego/Salk Institute Corresponding Member
 2011 University of Toronto Distinguished Lecturer
 2011 Schwarzbach-Kolloquium Lecturer, University of Köln
 2008 Distinguished Visiting Scientist, Friends Central High School (PA)
 2006 Richard Foster Flint Lectureship, Yale University
 1998-1999 ODP-USSAC Distinguished Lecturer

Professional Affiliations:

New York Consortium in Evolutionary Primatology (Resource Faculty member)
 Explorers Club (New York), Resident Fellow
 American Association for the Advancement of Science
 American Geophysical Union
 New York Academy of Science
 Sigma Xi

Editorial Positions

2008-2012 Editor, *Earth and Planetary Science Letters*
 1996-2006 Associate Editor, *Reviews of Geophysics*

Professional Service:

Committees:

2012-present Scientific Steering Committee, ECOREV – CEREGE (Aix-Marseilles, France)
 2010-2012 IODP Renewal Leadership Team
 2007-2009 National Academy of Sciences, National Research Council Committee Member: "Understanding Climate's Influence on Human Evolution"
 2007 NSF-ESH Research Planning Committee
 2006, 2002 National Academy of Sciences: Frontiers in Science (Co-Chair)
 2005-present New York Consortium in Evolutionary Primatology (resource Faculty)
 2005 NSF Holocene research planning meeting
 2005 CLIVAR Atlantic workshop member
 2001-2006 NSF-MESH Steering Committee member
 2004-2006 UCAR Climate and Global Change Steering Committee (Chair, 2006)
 2004-2005 CORE-NSF Future of Ocean Science Research Steering Committee
 1997-2005 American Geophysical Union, *Paleoceanography and Paleoclimatology Committee*
 2002 -2003 NSF-MESH "Tropical Paleoclimates" research planning committee (Co-Chair)
 2001-2002 NSF-MESH "Decadal-Millennial Scale Climate Variability" research planning committee
 2000-2003 USSAC panel member, Joint Oceanographic Institutions
 1997-2000 JOIDES Science Steering and Evaluation Panel (ESSEP) for Dynamics of Earth's Environment
 1995 National Science Foundation, Ocean Sciences - MG&G Panelist
 1995-2001 Ocean History Panel, ODP (Liason)

Workshops and Conference Participation:

Sept 2015 Blouin Creative Leadership Summit, Metropolitan Club, NYC (Panel with Andy Revkin).

June 2015 Aspen Institute "Oceans and Climate" lecture series. Aspen, CO (Invited)
 May 2015 CARTA Symposium "Human-Climate Interactions and Evolution: Past and Future" San Diego (Invited)
 June 2014 Past Climate Change and Societal Disruption. Urbino, Italy.
 May 2014 Co-Chair, Conference North African Climate and Culture during the Holocene" with Edouard Bard. Collège de France, Paris.
 Apr. 2012 Co-Chair, LDEO Conference. Did African Climate Influence Human Evolution? (with R. Leakey, T. Cerling)
 Mar. 2011 AGU Chapman Conference on Climates, Past Landscapes, and Civilizations (Org. Committee).
 Dec. 2010 Co-Chair, AGU, San Francisco "Frontiers in Scientific Ocean Drilling" (with Demian Saffer, Susan Humphris, Katrina Edwards).
 July, 2010 The Urbino Summer School in Paleoclimatology. Teaching staff.
 Dec. 2009 Co-Chair, AGU, San Francisco "Decadal to Century Scale Climate Variability" (with D. Black and J. Schaefer).
 Sept. 2009 INVEST IODP planning meeting, Chair working group (Bremen, Germany)
 Dec., 2007 Co-Chair, AGU, San Francisco "Advances in Past Hydrologic System and Ocean Paleosalinity Reconstructions" (with M. Schmidt and H. Spero)
 Dec., 2006 Co-Chair, National Academy of Sciences, Frontiers of Science Meeting, *Climate Change*
 Nov. 2006 United Nations Environmental Programme (UNEP, New York), "Climate Change - Risks and Opportunities for the Finance Sector"
 May, 2006 Plio-Pleistocene climatic changes, faunal turnovers and human dispersals, Institutió Catalana de Recerca i Estudis Avançats (ICREA), Tarragona, Spain (Sci. Comm)
 Mar., 2006 Co-Chair, UCAR Climate and Global Change Post-Doc selection Committee (AMNH)
 Mar., 2006 Chair, Workshop on Tropical Cyclones and Climate (LDEO, IRI)
 Dec., 2004 Co-Chair, AGU, San Francisco "A Tropical Perspective on the Ice Ages" (with George Philander and Alexey Federov).
 Dec., 2004 Co-Chair, AGU, San Francisco "Stable isotopes and Stratigraphy: Cenozoic Paleooceanography" Special Session honoring the career of Nick Shackleton. (with H. Elderfield, G. Henderson)
 Sept., 2004 Co-Chair Bjerknes Centenary Conference (Bergen, Norway) "Climate Change in High-Latitudes"
 Aug., 2003 Co-Chair, *IMAGES Holocene workshop*, Bergen, Norway (with Eystein Jansen and Francis Grousset)
 July, 2003 Chair, INQUA meeting, Reno, NV. *Marine Records of Terrestrial Climate change*
 April, 2003 Co-Chair, *Climate Center Pliocene Tropics Meeting*, Lamont (with Mark Cane)
 June, 2002 Co-Chair, National Academy of Sciences, Frontiers of Science Meeting: Culture-Climate-Catastrophe
 June, 2002 Co-Chair, IMAGES Holocene Working Group (with Francis Grousset)
 Dec. 2001 Chair, AGU, San Francisco: *Modes and Mechanisms of Holocene Climate Variability*
 Dec., 2000 Chair: AGU, San Francisco: *Paleoclimates: Data and Modeling*
 Dec., 1999 Co-Chair (with Paul Baker): AGU, San Francisco. *Past Changes in Tropical Ocean-Atmosphere Circulation and Terrestrial Climate: Late Neogene Linkages and Mechanisms*.
 Aug, 1999 Chair. INQUA International Congress, Durban, South Africa. Plenary Theme Symposium on "*The environmental background to hominid evolution in Africa*".
 May, 1999 Co-Chair (with Gerard Bond): AGU, Boston. *Complex patterns of climate change during the Pleistocene-Holocene: New insight into mechanisms of past climate variability?*
 Dec., 1997 Co-Chair: AGU, San Francisco: *Climate/Ocean dynamics during the Holocene and Last Interglacial*
 Oct., 1997 Co-Organizer (with Wally Broecker and Maureen Raymo): Climate Center conference on "*The Timing and Oceanographic Consequences of the Closing of the Panama Isthmus*", L-DEO.
 May, 1997 Chair: AGU, Baltimore: *Paleoclimates: Data and Modeling*
 Dec., 1997 Co-Organizer (with Gerard Bond): International Climate Center conference on "*Modes and Mechanisms of Holocene Climate Variability*", LDEO.
 Nov., 1996 Co-Chair: GSA, Denver, CO Hot Topics session: "*Plio-Pleistocene African Climate and Evolution*"
 Dec., 1995 Co-Chair: AGU, San Francisco: *Perspectives on Past Climate Changes from Magnetic Studies of Sediments Worldwide*.
 May, 1995 Co-Chair: AGU, Baltimore: *Paleoclimates: Data and Modeling*

Invited or Honorary Lectures (2001-Present)

Archeological Inst. America (2016; Plenary), Royal Society of London (2015), Aspen Ideas Festival (2015), CalTech (2015), CARTA San Diego (2015, invited), AGU Emiliani Lecturer (2014), Syracuse Univ. (2014), College de France (2014), MIT (2014), UMASS (Amherst, 2013); Universite de Marseilles (2012), AAAS Meeting (Vancouver, 2012); Simon Fraser University (2012), Yale (2012), Rutgers (2012), University of Toronto (2011); Harvard University (2011); Fall AGU (2010); University of Maine (2009); AGU Chapman Conference, Abrupt Climate Change (Ohio State Univ., 2009); Univ. of Illinois, Planet-U Conference (2009); University of South Florida (2009); North American Auto Show (Detroit) – KPMG Keynote talk (2009); MIT EAPS (2009); French Academy of Sciences (2008); Fundación Séneca, Agencia Regional de Ciencia y Tecnología, Murcia, Spain (2007); Cornell University (2007); Yale University (2006); NSF/Smithsonian Human Origins and Climate Change meeting (2005); Princeton University (2005, 2004, 2001); NASA/EOS Solar Radiation and Climate Experiment (SORCE) Keynote lecture (2005); NSF/AGU Holocene PT's research meeting (2005); Brown University (2005); University of Tokyo (2004); College de France, Univ. Aix-Marseilles (2004); Gibraltar Natural History Museum (2004); Santa Fe Institute (2004); Dartmouth (2004); MIT (2004); University of Utah (2004, University Lecture); Bjerknes Center, (2003, 2004 Bergen, Norway); University of Kansas (2003); Univ. Conn. Teale Lecture Series (2003); University of Rochester (2003); Rice University (Invited University Lecture, 2002); Oregon State University (2002); Harvard University (2002); Ohio State University (Invited Plenary Lecture, 2002); Woods Hole Oceanographic Inst. (2002); Royal Swedish Academy of Sciences (Invited Plenary Lecture)

International Service

United Nations Open Working Group on Sustainable Development Goals (Jan. 6-10, 2014; Feb. 4, 2014)
Green Schools Alliance, International Advisory Council (2014-present)

University Service:

2015- Present Exec. Committee, Columbia Sustainability Plan
2015-2016 Search Committee, Earth Institute Director
2015-present Earth Institute Executive Committee
2013-2015 Co-Chair Science Core Committee (with Philip Kitcher)
2014-2015 Department Vice Chair, *Dept. Earth and Environmental Sciences*
2011-2014 Department Chair, *Dept. Earth and Environmental Sciences*
2011, 2010 Columbia Alumni Lectures
2008-2011 Associate Chair, *Dept. Earth and Environmental Sciences*
2008-2010 Director of Graduate Studies, DEES
2008-2011 Columbia Academic Review Committee
2008-2010 Columbia Committee on Science Instruction
2008-2009 Chair, Paleooceanography Research Scientist selection committee
2005-present Columbia Univ. IGERT Program Applied Math & Dept. Earth Env. Sciences Faculty
2003-2010 *Frontiers of Science* curriculum planning
2003-present CU-DEES, Planning Committee
2003-present Academic Committee, Earth Institute of Columbia University
2002-present Student-Faculty relations committee
2001-present CICAR steering committee (Cooperative Institute for Climate Applications and Research; NOAA Lamont-GFDL Joint Institute)
1999-present LDEO Climate Center Committee
2003-2008 Educational subcommittee, Earth Institute of Columbia University
2004-2008 LODOS Steering Committee
2002-2007 Director of Undergraduate Studies, DEES
2007-2008 Member, Storke-Doherty Lecturer selection committee
2004-2007 Chair, Paleooceanography faculty search committee
2005 Gender Equity Committee, DEES
2005 Dean's Day University Lecture
2005 Columbia University Scholar's lecture program
2003-2004 Lamont Strategic Research Planning document (Abrupt Climate Change)
2003-2006 Co-Chair, Earth Institute Fellows selection committee

2004	Earth Institute Fellows Committee
2003	Environmental Science Department review panel (Barnard College)
2002-2003	Member, Storke-Doherty Lecturer selection committee
2001-2002	Graduate curriculum reform committee (Paleoclimates)
2002	Chair, LDEO post-doctoral selection committee
2001	LDEO Core Curriculum development, lead (Paleoclimate/Paleoceanography)
1999-2002	Executive Committee, Lamont-Doherty Earth Observatory
2001	Chair, LDEO post-doctoral selection committee
1999-2002	Member CEI SMART grant committee
1999, 1996	Lamont-Doherty Post-Doctoral selection committee
1999	LDEO Jardetsky Lecturer selection committee
1996	Earth Institute planning committee

Outreach and Media (Selected)

PBS – “Fixing the Climate Innovation Gap” (TV, 2/2016)
 CBS “60 Minutes” (TV, 1/2016) <http://www.cbsnews.com/news/greenland-60-minutes-climate-change/>
 COP21-Paris – “Science, Business, and Policy”, International Chamber of Commerce side event (12/2015)
 Al Jazeera (TV interview, 9/2015)
The Great Human Odyssey (2015 Documentary Film, CBC and PBS. <http://www.cbc.ca/greathumanodyssey/>)
 Al Jazeera (TV interview, 8/2015) <https://ajam.boxcn.net/s/wf5sm5u0upune0eonbqt8243ivfzv1x1>
 Devon Yacht Club (8/2015)
 Aspen Ideas Festival (6/2015) <https://www.youtube.com/watch?v=TPSAj3QsEVg>
 LA Times (3/2015)
 Science Friday (Radio, Sept., 2014)
 Lycee Francais. Earth Day Symposium. Keynote speaker (2013, 2014)
 International Center for Photography, NY City. Keynote speaker. (2014)
 CNN, (TV interview, 2013)
Huffington Post, 12/7/2011 http://www.huffingtonpost.com/peter-b-demenocal/beyond-denial-the-next-fr_b_1135050.html
 CNN with Christiane Amanpour, (TV interview, 2012), *Human Connection to Extreme Weather*,
 BBC (TV 2012), *Human Evolution Series*
 History Channel (TV, 2009), *How the Earth Was Made: The Sahara*
 CNN (TV interview 2009)
 NOVA (TV feature, 2009), *Becoming Human*
 NPR (Radio, 2009) *Science Friday*
 National Geographic (TV, 2009), *The End of Earth*
 ABC News (TV feature, 2009) *2100*
 The DNA Files, National Public Radio. “The Heat is On: Evolution in Action” (2008)
 NOVA, (TV, 2007), *Human Evolution and Climate Change*
 Discover Channel (TV, 2007) *Why Ancient Egypt Fell*
National Public Radio, 2007
Eleventh Hour (Climate change film by Leonardo diCaprio, 2007 release)
 History Channel *Little Ice Age, Big Chill* (TV, 2006)
 2004-5 Artist as Citizen, “Oil, Culture, Democracy” Multimedia social/political/cultural project, New York City
www.artistascitizen.org
Climate of Uncertainty (Radio, American Public Media, 2004 release)
 BBC feature, *Ancient Apocalypse* (TV, 2001)

Teaching:

Graduate Courses (*current offerings)

*EESC W4920 – “Paleoceanography” – Graduate-level core curriculum course co-taught with Jerry McManus and Bärbel Hönisch (2009-2011)

- * EESC W4937y – “Cenozoic Paleooceanography” (Offered Spring 2005). Graduate-level core curriculum course on ocean sediments, sedimentary geochemistry, and stratigraphic principles. P. deMenocal and W. Ryan. (2005-present)
- * EESC G9802 – “Seminar in Geochemistry”. (2000-present)
- U4735 - Environmental Science for Decision-Makers", School for International and Public Affairs (SIPA). Co-Taught with Walter Pitman, Jim Simpson, and Steve Rayner (2000).
- W4126 - New World Environmental Change and Cultural Interactions since the Late Pleistocene (1999, 2000) Graduate/advanced-undergraduate-level course addressing patterns and causes of Holocene climate and social change in the New World. Co-taught with Dr. David Lentz.

Undergraduate Courses

- * Frontiers of Science: Scientific Habits of Mind. Undergraduate core curriculum course led by Profs. David Helfand and Darcy Kelley (2003-2011).
- * V1003 - “Climate and Society: Case Studies”. Introductory undergraduate course addressing the interface between climate science and policy. P. deMenocal (lead; 2001-present)
- V2100 – “Introduction to Earth systems: the climate system" (2100X). Advanced undergraduate course on biogeochemical systems and earth climate. Co-taught with three other profs.
- V1005 - “The Design and Maintenance of a Habitable Planet" (V1005), co-taught with Dr. Wally Broecker and J. Lynch-Steiglitz. (2000).

Graduate Students (Primary advisor):

- Mr. Sam Phelps (started fall 2013)
- Mr. Yoni Goldsmith (started Fall 2012)
- Dr. Cassandra Rose (PhD., 2015)
- Dr. Jennifer Arbuszewski (PhD., 2011, now post-doc at WHOI with Delia Oppo)
- Dr. Sarah Feakins (Ph.D., 2007, now Associate Prof, USC)
- Dr. Christa Farmer (Ph.D., 2005; now Associate Prof., Hofstra Univ.)
- Dr. Heidi Cullen (Ph.D., 2000; now Executive Director, Climate Central)
- Ms. Christina Reed (M.S., 1999; now GeoTimes staff writer)

Graduate Students (Committee Member only)

- Ms. Amanda Liang (current)
- Ms. Laura Hayes (current)
- Ms. Logan Brenner (current)
- Mr. Jesse Farmer (current)
- Ms. Anastasia Yanchilina (PhD, 2016, now at Weizmann Institute, Israel))
- Mr. Will Jacobson (withdrew)
- Dr. Sanpisa Sritrairat (PhD., 2012; now Assist. Prof at Bard College)
- Dr. Katherine Allen (PhD., 2012; now Assist. Prof., Univ. Maine)
- Mr. Peter Almasi (withdrew)
- Dr. Jennifer Amizade (PhD., 2011)
- Dr. Ousmane Ndiaye (Ph.D, 2010)
- Dr. Li Cao (Ph.D, 2009)
- Dr. Maghan Marrero (Ed.D., 2008, Teachers College)
- Dr. Christie Field (Ph.D., 2008, NASA-GISS)
- Ms. Gemma Kirkwood (M.S., 2005-2007, withdrew)
- Dr. Julie Ferguson (Ph.D, 2008, Oxford)
- Dr. Louisa Bradtmiller (Ph.D., 2008, now faculty at Lancaster College)
- Ms. Janet. Fang (MS, 2008 Columbia Science Journalism Program)
- Dr. Julien Emile-Gray (Ph.D., 2006, now Prof. at USC)
- Dr. Celine Herweijer (Ph.D., 2006)
- Dr. Kirstie Stramler (Ph.D., 2006)
- Dr. Neil Pederson (Ph.D., 2005, now LDEO.)
- Dr. Tom Koutavas (Ph.D., 2002; now Assistant Prof., CUNY Staten Island)

Dr. Renee Takesui (Ph.D., 2002; now USGS)
Dr. Alex Gianinni (Ph.D., 2000; now IRI Scientist)
Dr. Karen Kohfeld (Ph.D., 1997; now Assistant Prof, CUNY Queens College)

Post-doctoral scientists sponsored:

Dr. Cyrus Karas (2015-2016)
Dr. Renanta Nagai (2014-2015) now Assistant Professor, Brasil.
Dr. Nina Keul (2012-2014) now Future Oceans Post-Doc, Kiel, Germany
Dr. Kevin Uno (2012-2016)
Dr. Zohra Mokkadem (2012-2013)
Dr. Jess Tierney (2010-2012), now Associate Professor at Univ. Arizona
Dr. Caroline Cléroux (Gif-sur-Yvette, 2008-2010), now Assist. Scientist at NIOZ
Dr. Jennifer Cole (SUNY, Stony Brook; 2003-2005)
Dr. Mary Elliot (Gif-sur-Yvette, France) (1999-2001; now faculty at University of Edinburgh)
Dr. Dan Collins (NASA/GISS) (1996-1999)

Oceanographic Cruises:

West African Margin (CHEETA Program with Tim Eglinton, 30 days, Summer, 2007)
Gulf of Aden (Co-chief scientist with Gerald Ganssen; 24 days, Spring 2001)
North Atlantic Greenland-Iceland multicoring cruise (Co-Chief Scientist: 28 days, Spring 1998)
Ocean Drilling Program Leg 167 (California Margin; 1996)
Ocean Drilling Program Leg 154 (Ceara Rise; 1994)
Ocean Drilling Program Leg 145 (North Pacific Transect; 1992)
Ocean Drilling Program Leg 128 (Sea of Japan; 1989)
Ocean Drilling Program Leg 117 (Arabian Sea; 1987)
Participation on 4 oceanographic expeditions in the western Atlantic (1982-1985)

Funded Research:

2012-2015 National Science Foundation, NSF P2C2; Collaborative Research: A combined proxy and model investigation of Late Holocene paleoclimate in the Horn of Africa, NSF-OCE1203295. PIs Jessica Tierney, C. Ummenhofer, P. deMenocal.

2011-2015 National Science Foundation, NSF P2C2; Collaborative Research: Multidecadal to century-scale variability of North Atlantic SSTs over recent millennia: Quantifying the ocean's response to solar forcing. \$263,000. PIs: P. deMenocal, S. Lehmann.

2010-2014 National Science Foundation, NSF P2C2; "Mapping Saharan dust fluxes through the onset and termination of the African Humid Period", \$347,769. PIs D. McGee, G. Winckler, P. deMenocal.

2010-2014 National Science Foundation, NSF ARI-R2 Proposal; "Lamont Center for Biogeochemistry" \$8,386,081.

2010-2012 National Science Foundation, NSF MRI-R2 Proposal; "Acquisition of Stable Isotope Instrumentation for High Precision Paleoclimatic and Environmental Research at the Lamont Doherty Earth Observatory", PI's B. Linsley, K. Anchukaitis, P. Schlosser, P. deMenocal, B. Yan, \$1,160,731.

2010-2011 National Science Foundation, NSF MG&G Proposal: "The LDEO Deep-Sea Core Repository", \$254,516. (PI's McManus, Lehnert, deMenocal, Lotti, Ryan).

2009-2012 National Science Foundation, NSF P2C2 Proposal; "North American Megadrought: Atmosphere-Ocean Forcing". \$638,135. PIs: R. Seager, B. Cook, deMenocal, et al.

2009-2012 National Science Foundation, MG&G. OCE-0927247 "Deglacial Evolution of the Tropical Atlantic ITCZ and SST Gradients" (0-30 ka BP), \$365,000.

2008-2011 National Science Foundation, MG&G. "Assessing the fidelity of shell-derived $\delta^{18}\text{O}$ seawater estimates", \$360,000.

2008-2010 American Chemical Society, "Origin of the Mid-Pliocene Pole-to-Equator Ocean Productivity Shift", \$100,000.

2006-2008 National Science Foundation, Earth System History, MG&G. "CHEETA: Changing Holocene environments of the eastern tropical Atlantic supplement grant, \$463,000.

- 2004-2007 National Science Foundation, Earth System History. Tracking Past Shifts of the Eastern Pacific ITCZ with Oxygen Isotopes and Magnesium Paleothermometry. \$162,500 (T. Koutavas/P. deMenocal)
- 2004-2008 National Science Foundation, Earth System History. "CHEETA: Changing Holocene environments of the eastern tropical Atlantic (Collaborative with Tim Eglinton, WHOI). \$730,000. (30-day cruise)
- 2002-2008 National Science Foundation, Human Origins Program (Physical Anthropology). "Environmental dynamics and evolution of human adaptability", \$2,494,000 (lead: R. Potts, Smithsonian Inst.).
- 2002-2005 National Science Foundation, MG&G, "In Search of Holocene Variations in Upper/Middle North Atlantic Deep Water Circulation", \$280,000 (with T. Marchitto).
- 2002 Joint Oceanographic Inst., Site augmentation grant: 575-Full3, \$25,000. (24-day cruise, Dutch ship *Pelagia* (Gerald Ganssen))
- 1999-2001 National Science Foundation, "Instrumentation and Automation Upgrade for Lamont Marine Sediment Analysis Facility, \$210,000.
- 1999-2001 National Science Foundation, "Subtropical Signatures of Holocene Climate Variability" (with J. Ortiz), \$364,697.
- 1998-2001 National Science Foundation, "The Holocene Record of the North Atlantic" (with G. Bond and W. Ryan), \$586,330. (27-day cruise)
- 1997 Joint Oceanographic Inst., U.S. Science Advisory Committee: "Deep circulation and carbonate burial: A combined data-model approach", \$26,000.
- 1997-1999 National Science Foundation, "Modeling Climate and Deep Water Sensitivity to Changes in Deglacial Meltwater Flux Using a Fully Coupled Ocean-Atmosphere General Circulation Model", (with D. Rind, NASA/GISS), \$207,660.
- 1997 National Science Foundation, Funding support for international conference on: "*Modes and Mechanisms of Holocene Climate Variability*", \$10,000
- 1996-1998 National Science Foundation, "High- and Low-Latitude Influences on Plio-Pleistocene African Climate: Analysis of a Coupled Terrestrial-Marine Climate System". Marine Geology and Geophysics, \$150,000.
- 1995-1998 National Science Foundation, "Plio-Pleistocene Tephra Correlations between the Turkana Basin and Arabian Sea: Constraining African Climate-Evolution Hypotheses". Jointly supported by Marine Geology & Geophysics, Phys. Anthropology, and Human Dimensions of Global Change, \$204,662.
- 1994 Joint Oceanographic Inst., U.S. Science Advisory Committee: "Deep circulation and carbonate burial: A combined data-model approach", \$21,000.
- 1993 Joint Oceanographic Inst., U.S. Science Advisory Committee: "Downhole logs as paleoclimate tools: Biogenic and terrigenous records from Detroit Seamount Sites 883 and 884", \$15,700.
- 1992-1994 National Science Foundation, Marine Geology & Geophysics: "Evolution of Arabian and Northeast African Terrestrial Climate Since the Late Miocene", \$150,000.
- 1992-1994 National Science Foundation, Geology and Paleontology: "Downhole Logs as Paleoclimate Tools: A Case Study from ODP Leg 128, Sea of Japan", \$125,000.
- 1989 Joint Oceanographic Inst., U.S. Science Advisory Committee, "Paleoclimatic Implications of Leg 128 Downhole Logging Results", \$20,000.
- 1988 Joint Oceanographic Inst., U.S. Science Advisory Committee, "Correlation and Paleoclimatic Significance of Leg 117 Magnetic Susceptibility Variations", \$25,800.

Published Journal Articles and Book Chapters:

H-index 36; Researcher ID: B-1386-2013 <http://www.researcherid.com/rid/B-1386-2013>

- 2016**
99. Uno, K.T., Polissar, P.J., Kahle, E., Feibel, C., Harmand, S., Roche, H., deMenocal, P.B., A Pleistocene paleovegetation record from plant-wax biomarkers from the Nachukui Formation, West Turkana, Kenya. Phil. Trans. Roy. Soc. Submitted.
98. Rose, C., Polissar, P., Tierney, J.A., Filley, T., deMenocal, P.B. Changes in Northeast African Hydrology and Vegetation Associated with Pliocene-Pleistocene Sapropel Cycles. Phil. Trans. Roy. Soc. submitted
97. Williams, R.H., McGee, D., Kinsley, C., Ridley, D.A., Hu, S., Fedorov, A., Tal, I.,

- Murray, R., deMenocal, P.B. Glacial to Holocene changes in trans-Atlantic Saharan dust transport and dust-climate feedbacks. Nature Geoscience, Submitted.
96. Goldsmith, Y., Broecker, W.S., Xu., H., Polissar, P., deMenocal, P.B., Porat, N., Peng, C., Zhou, W., An, Z. Glacial to Holocene shifts in the East Asian monsoon recorded by paleoshorelines from Dali Lake, China.
95. Allen, K.A., et al., Trace element proxies for surface ocean conditions: A synthesis of culture calibrations with planktic foraminifera. GCA, submitted.
94. deMenocal, P.B., Brierley, C., Fedorov, A. The ocean's role in the early Pleistocene expansion of East African C4 grasslands. Nature Geoscience.
93. Goldsmith, Y., Ayalon, A., Bar-Matthews, M., Polissar, P., deMenocal, P.B., Broecker, W.S. The modern and LGM hydrological cycles of the Eastern Mediterranean and the Levant from a water isotope perspective. GCA, submitted.
92. Uno, K., Polissar, P., deMenocal, P.B. Molecular biomarker records from the Shungura Formation. Science, submitted.
91. Rose, C., Polissar, P., deMenocal, P.B. Late Miocene Age for the Sahara Desert. Nature, Submitted.
90. Karas, C., Nürnberg, D., Tiedemann, R., Bahr, A., Groeneveld, J., Herrle, J.O., deMenocal, P.B. Global cooling and the role of Pliocene constrictions of tropical oceanic seaways. PNAS, Submitted.
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89. Bradtmiller, L., McGee, D., Awaly, M., Evers, J., Yerxa, H., Kinsley, C., deMenocal, P.B. Changes in biological productivity along the northwest African margin over the past 20,000 years. Paleoceanography, 10.1002/2015PA002862 (2015).
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- 2013 Kahle, E., Uno, K., Polissar, P., deMenocal, P.B., Assessing preservation of biomarkers in terrestrial plants in the Turkana Basin and viability for stable isotope analysis. Fall AGU, San Francisco.
- 2013 Allen, K., Sikes, E., Elmore, A., Hönisch, B., deMenocal, P. Deep-water carbonate chemistry in the Southwest Pacific Ocean since the LGM. Fall AGU, San Francisco.
- 2013 Tierney, J., deMenocal, P.B. Abrupt shifts in Horn of Africa hydroclimate and the influence of the Indian Ocean. Fall AGU, San Francisco.
- 2013 Rose, C., deMenocal, P.B., Polissar, P., Tierney, J. Late Cenozoic history of North African climate and vegetation changes: Orbital and secular changes based on leaf-wax biomarkers at multiple ODP sites. Fall AGU, San Francisco.
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- 2012 Evers, J., Yerksa, H., Bradtmiller, L., McGee, D., deMenocal, P. Using opal and organic carbon in marine sediments to assess changes in upwelling during the African Humid Period. Fall AGU, San Francisco.
- 2012 Arbuszewski, J.A., deMenocal, P. Mg/Ca Paleothermometry in *G. ruber* (white): mechanisms and calibration. (Oral presentation) Goldschmidt Conference, Montreal, Canada.
- 2012 deMenocal, P.B. The Ocean's Role in the Late Pliocene Aridification of East Africa. AAAS Meeting (Vancouver). INVITED.
- 2012 Cleroux, C., deMenocal, P.B. Reconstructing the past thermocline circulation in the Atlantic: calcification depths and Mg/Ca-temperature calibrations for 6 deep-dwelling planktonic foraminifera. EGU Meeting.
- 2011 deMenocal, P., Cleroux, C, Arbuszewski, J. Tropical Atlantic ITCZ and the African Humid Period. Max Planck Inst. for Meteorology, University of Hamburg, Germany INVITED.
- 2011 Arbuszewski, J.A., deMenocal, P. Towards a global calibration and validation of the *G. ruber* (white) Mg/Ca paleothermometer.

- (Poster presentation) Fall EOS, AGU Fall 2011 Meeting Program with Abstracts.
- 2011 Caroline Cléroux, Peter deMenocal, Kristen L. Gore, David Madigan, Jennifer Arbuszewski and Brad Linsley, Reconstructing the upper water column structure along 35°N-20°S in the Atlantic: a tool to reconstruct past thermocline circulation. Talk, EGU conference, April 2011, Vienna.
- 2011 Bradtmiller, L., Awalt, M., McGee, D., deMenocal, P. Using opal and organic carbon as proxies for the North African monsoon. 2011 Goldschmidt Conf.
- 2011 deMenocal, P., Feakins, S., Eglinton, T. Cleroux, C, Arbuszewski, J. Late Pliocene aridification of North and East Africa. AGU Chapman Conference (Santa Fe, NM) INVITED.
- 2010 deMenocal, P., Feakins, S., Cleroux, C, Arbuszewski, J. Why Africa became dry in the mid-Pliocene. Fall EOS, Fall 2010 Meeting Program with abstracts. INVITED
- 2010 Arbuszewski, J, deMenocal, P., Kaplan, A. Towards a global calibration of the Mg/Ca paleothermometer. Fall EOS, Fall 2010 Meeting Program with abstracts.
- 2010 Cleroux, C, deMenocal, P., Arbuszewski, J. Deglacial evolution of the Atlantic ITCZ. Fall EOS, Fall 2010 Meeting Program with abstracts.
- 2010 Otto-Bliesner, B. et al. Reconstruction and Modeling of Global Climate Evolution of the Last 21, 000 years. Fall EOS, Fall 2010 Meeting Program with abstracts.
- 2010 Cleroux, C., deMenocal, P.B., Kaplan, A. Multispecies reconstruction of upper ocean density gradients. ICP-10, San Diego.
- 2010 deMenocal, P.B. Ocean-atmosphere interactions and the mid-Pliocene aridification of North Africa. PAGES Monsoon Symposium. Shanghai, China INVITED KEYNOTE.
- 2010 Arbuszewski, J., deMenocal, P.B., Kaplan, A. Global coretop calibration of *G. ruber* (white) Mg/Ca paleothermometry. ICP-10, San Diego.
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- 2009 deMenocal, P.B. Abrupt Termination of the African Humid Period. AGU Chapman Conference (Ohio State Univ.). INVITED.
- 2008 Koutavas, T., deMenocal, P.B. Comparison of Cross-Equatorial Dynamics in the Eastern Pacific During Terminations I and II. Fall EOS, Fall 2008 Meeting Program with abstracts,
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- 2006 deMenocal, P.B., Raymo, M., Lynch-Steiglitz, J., Philander, G. Pliocene-Pleistocene shifts in tropical Atlantic ocean-atmosphere coupling. Fall AGU, San Francisco. INVITED
- 2006 Koutavas, T., deMenocal, P.B. Equatorial Pacific Ocean Dynamics Viewed From the Northern Cocos Ridge: Oxygen Isotopic

- Variability During the Last Two Glacial Cycles. Fall AGU, San Francisco.
- 2006 Bice, M., deMenocal, P., Arbuszewski, Jennifer A. Reconstructing Atlantic d18O seawater gradients using foraminiferal Mg/Ca and d18O. Fall AGU, San Francisco.
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- 2006 Arbuszewski, Jennifer A. and Peter B. deMenocal. Reconstruction of Tropical Atlantic Sea Surface Temperature Gradients since the Last Glacial Maximum. Fall AGU, San Francisco.
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- 2005 deMenocal, P.B., Marchitto, T., Linsley, B.K., Guilderson, T. Latest Holocene changes in Northwest Atlantic surface and deep water temperatures: Links to solar variability. INVITED Keynote. NASA/EOS Solar Radiation and Climate Experiment (SORCE) Keynote lecture (2005). Durango, CO.
- 2005 deMenocal, P.B., Marchitto, T., Linsley, B.K., Guilderson, T. Amplitude and phasing of surface and deep NW Atlantic Ocean temperature changes during the latest Holocene. NSF-ESH Holocene PI's Meeting (Washington, D.C.)
- 2005 Koutavas, A., deMenocal, P., Lynch-Steiglitz, J. Oxygen isotope and Mg/Ca constraints on the east Pacific equatorial front from the LGM to the Holocene. Spring AGU.
- 2004 Cole, J.M., deMenocal, P.B., Goldstein, S.L., and Adkins, J.F. 2004. LGM to Holocene African climate variability and the Sr, Nd, and Pb isotope ratios of eolian deposits off northwest Africa. Eos Transactions AGU 85(46), Fall Meeting Suppl., Abstract U14A-04.
- 2004 Cole, J.M., deMenocal, P.B., Goldstein, S.L., and Adkins, J.F. 2004. Changes in Holocene climate and the Sr, Nd, and Pb isotope ratios of eolian sediments off northwest Africa. 8th International Conference on Paleoclimatology. Biarritz, France.
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- 2003 Koutavas, A., Lynch-Steiglitz, deMenocal, P. Tracking past shifts in the eastern Pacific ITCZ with foraminiferal oxygen isotopes and Mg paleothermometry. Fall AGU Meeting.
- 2002 deMenocal, P. Cultural responses to Holocene climate variations. Frontiers of Science Meeting, National Acad. Sci. INVITED
- 2002 deMenocal, P., Marchitto. Amplitude and phasing of surface and deep NW Atlantic Ocean temperature changes during the latest Holocene. Fall AGU, San Francisco, CA.
- 2002 Marchitto, T.M. and deMenocal. Upper North Atlantic Deep Water Variability during the Holocene. Goldschmidt Conference, Davos, Switz. INVITED PLENARY.
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- 2001 Marchitto T M, Bond G, deMenocal P B, Lynch-Stieglitz J, Ortiz J D, and van Geen A, Reducing the ambiguity of deep water circulation reconstructions using multiple benthic foraminiferal paleonutrient proxies. ICP-VI, Hokkaido, Japan. INVITED.
- 2001 deMenocal, P.B. Achieving Climate Predictability using Paleoclimate Data. Abrupt changes in the African monsoon system. EURESCO Conference. (Il Ciocco, Italy). INVITED.
- 2000 Elliot, M., deMenocal, P, Linsley, B., Guilderson, T. Interannual Records of Sea Surface Hydrology at Cape Hatteras Obtained From Marine Bivalves During the Medieval Warm Period. AGU Fall, 2000.
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- 1999 Farmer, C, Kaplan, A., deMenocal, P.B., Ortiz, J. Towards a joint faunal-isotopic transfer function for reconstructing past changes in tropical upper-ocean thermal structure. EOS, Fall, 1999 AGU Meeting, San Francisco.
- 1999 deMenocal, P.B., Raymo, M., Boden, P. Changes in Tropical Atlantic Ocean-Atmosphere Circulation Associated with the Onset of Northern Hemisphere Glaciation EOS, Fall, 1999 AGU Meeting, San Francisco.
- 1999 Adkins, J., deMenocal, P.B., Ortiz, J., Sarnthein, M. Abrupt changes in terrigenous accumulation and sediment focusing off northwest Africa (ODP Site 658). EOS, Fall, 1999 AGU Meeting, San Francisco.
- 1999 deMenocal, P.B, and Brown, F.H. Tephrostratigraphic links between East African hominid localities and the Arabian Sea: Constraining African climate-evolution hypotheses. INVITED.
- 1999 Chaisson, W., deMenocal, P.B., Bond, G.C. Moving the Northwest Corner: Faunal evidence from Orphan Knoll. EOS, Spring, 1999 AGU Meeting, Boston.
- 1998 deMenocal, P.B., Ortiz, J., Sarnthein, M. Holocene variations in subtropical Atlantic sea-surface temperatures: links to the North Atlantic. PAGES Conference, London.
- 1998 Cullen, H.C. and deMenocal, P.B. Possible role of climate in the collapse of the Akkadian Empire. American Association for the Advancement of Science, Anaheim, CA. INVITED.
- 1998 Showers, W., Bond, G.C., U. Mikolajewicz, deMenocal, P.B. Antiphased climate patterns in the subtropical and subpolar North Atlantic during the last glaciation and the Holocene. EOS, Fall, 1998 AGU Meeting, San Francisco.
- 1997 deMenocal, P.B. Abrupt Holocene variations in West African upwelling. EOS, Fall, 1997 AGU Meeting, San Francisco.
- 1997 deMenocal, P.B. Paleooceanographic Applications of Rock-Magnetic Measurements: Recent Developments and Future Directions. EOS, Fall, 1997 AGU Meeting, San Francisco. INVITED.
- 1997 Brown, F.H., and deMenocal, P.B. Continuous Marine Sediment Record of East African Tephrostratigraphy: Intercalibrations of Astronomic and Radiometric Timescales. EOS, Fall, 1997 AGU Meeting, San Francisco.
- 1997 Cullen, H., and deMenocal, P.B. North Atlantic influence of Middle Eastern Climate and water supply, EOS, Fall, 1997 AGU Meeting, San Francisco. INVITED.
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- 1996 Bond, G., deMenocal, P.B., and Showers, W. Abrupt climate shifts on sub-Milankovitch timescales in the North Atlantic during the Holocene and the last glacial-interglacial cycle. EOS, Fall 1996 AGU Meeting, San Francisco. INVITED.
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1994 Hagelberg, T., deMenocal, P.B., Curry, W.,
Shackleton, N.J., and ODP Leg 154
Scientific Party, Variations in terrigenous
sedimentation on the Ceara Rise, western
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1993 deMenocal, P.B. Neogene evolution of
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1993 deMenocal, P.B., Ruddiman, W.F., and
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663. 1993 SEPM Meeting, Penn State
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1993 deMenocal, P.B. Late Neogene eolian
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1993 deMenocal, P.B. Subtropical African climate
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Spring AGU Meeting, Montreal, Canada.
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