

Curriculum Vitæ

ALAN C. MIX, Professor

2023

<http://ceoas.oregonstate.edu/profile/mix/>

Education

B.S., Geology (cum laude), University of Washington, Seattle, WA	1978
M.S., Geology, Columbia University, New York, NY	1980
M.Phil., Geology, Columbia University, New York, NY	1984
Ph.D., Geology, Columbia University, New York, NY	1986

Professional Experience

Research Assistant, Oceanography Dept., Univ. Washington, Seattle	1974-1976
Grad. Research Asst., Lamont-Doherty Geol. Observ., Palisades, NY	1978-1984
Assistant Professor, College of Oceanogr., Oregon State Univ., Corvallis	1984-1989
Director, OSU Marine Geology Repository (Core Laboratory)	1986-2005
Founding Director, OSU/COAS Stable Isotope Laboratory	1986-
Assoc. Professor, College of Oceanic and Atmos. Sci., OSU, Corvallis	1989-1995
Visiting Scientist: NOAA Geophys. Fluid Dynamics Laboratory and Atmospheric. and Oceanic Sci. Program, Princeton University, NJ	1992-1993
Professor, College of Oceanic & Atmos. Sci., OSU, Corvallis, OR	1995-2017
Associate Dean, College of Oceanic & Atmos. Sci., OSU, Corvallis	2001-2004
Chair, OSU Mass Spectrometry Consortium	2006-2015
Visting Professor, MARUM, Univ. Bremen, Germany	2009
Visiting Professor, Physics Institute, Univ. Bern, Switzerland	2017
Distinguished Professor of Earth, Ocean, & Atmos. Sci., OSU	2017-2023
Distinguished Professor Emerit , Earth, Ocean, & Atmos. Sci., OSU	2023-

Professional Affiliations

American Geophysical Union (Fellow), American Association for the Advancement of Science (Fellow), Geological Society of America, European Geosciences Union, The Oceanography Society (President).

Research Focus

Paleoceanography; Paleoclimatology; Micropaleontology/Paleoecology of Planktic Foraminifera; Isotope Geochemistry; Sediment Geochemistry.

National and International Research Programs

Member, CLIMAP	1978-1980
Co-Principal Investigator, SPECMAP	1984-1994
Corresponding Member, COHMAP	1985-1988
Ocean Drilling Program, ODP (legs 138, 154, 167, 202 co-chief,323)	1987-2005
Joint Global Ocean Flux Study, Equat. Pacific Program, JGOFS-EqPac	1992-1996
International Marine Geological studies of Global Changes, IMAGES	1995-2000
Environmental Processes of the Ice Ages: Land, Ocean, Glaciers, EPILOG	1996-2003
Co-Principal Investigator, PaleoVar (Past Climate Variability)	2006-2011

Co-Principal Investigator, MiLoco (hypoxia, GBMF, US, Chile)	2008-2013
PI - Petermann Glacier, Greenland (US, UK, Sweden, Canada, Denmark)	2015-2019

National and International Committees

Editorial Board, <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i>	1987-92
American Geophysical Union Paleooceanography Committee	1989-94
Ocean History Panel, Ocean Drilling Program (ODP)	1989-92
Joint Oceanographic Institutions, Inc. Special Committee on Future Core Repositories. University of Bremen, Germany	1993
Elected, NSF-MESH Steering Committee (Marine Earth Syst. History)	1993-96
Corresponding Member, SCOR Working Group 100 (Sediment Coring)	1993-95
Planning Committee, Ocean Drilling Program	1993-96
JOIDES Long Range Planning Committee	1994-96
JOIDES Liaison to Ocean History Panel, MESH, IGBP/PAGES, IMAGES	1993-96
International Marine Global Change Study (IMAGES) Scientific Committee	1995-01
Steering Committee, 6 th International Congress of Paleooceanography, Lisbon	1995-99
Associate Editor, <i>Geology</i>	1996-00
Chair, IGBP/PAGES program EPILOG	1997-06
Associate Editor, <i>Quaternary Science Reviews</i>	1998-06
Secretary Ocean Sciences Section, American Geophys. Union	2000-04
Ocean Sciences Executive Committee, American Geophys. Union	2000-05
Ocean Sciences Awards Committee, American Geophys. Union	2003-06
Councilor, American Quaternary Association	2000-03
JOIDES Executive Committee (representing Oregon State University)	2001-04
Scientific Advisory Board, NOAA-CIMRS, Oregon State University	2004-08
Scientific Advisory Board, Inst. Meereskunde-GEOMAR, Kiel, Germany	2004-12
Scientific Advisory Board, MARUM, Univ. Bremen, Germany (Chair)	2005-15
OSU Interdepartmental Mass Spectrometry Consortium (Chair)	2006-15
IGBP/PAGES Science Steering Committee (Exec 2011-15; Chair 2012-15)	2010-15
US National Research Council, Decadal Survey of Ocean Sciences	2013-15
Scientific Advisory Board, PALMOD (Paleo Modeling, German Consortium)	2016-
President, The Oceanography Society (President elect 2015-2016)	2017-18
Organizing Committee, International Conference on Paleooceanography ICP13	2017-19
Intergovernmental Panel on Climate Change (AR6, WG1)	2018-2022
Past President, The Oceanography Society (Chair, Ethics Appellate Committee)	2019
AGU Paleooceanography and Paleoclimatology Executive Committee	2019-2022
Co-Chair, US National Academy of Sciences Study on Southern Ocean and Nearshore Antarctic research.	2022-2023

Honors

National Merit Scholar	1973
ARCO Fellow	1982
OSU/COAS - June Patullo Award for Excellence in Teaching	2000
JOI/USSAC Distinguished Lecturer	2002-2003
Commendation, K. Kulongoski, State of Oregon, Contributions to Lifelong	

Learning, Confederated Tribes of the Siletz	2005, 2006
Chapman Lectureship, Univ. Alaska Fairbanks	2010
Fellow, American Geophysical Union	2013
Emiliani Lecturer, American Geophysical Union	2015
Fellow, American Association for the Advancement of Science	2017
Distinguished Professor, OSU	2017
Research Fellow, The Explorers Club, New York	2019
Fellow, The Oceanography Society	2020
Kirk Bryan Award, The Geological Society of America	2021
Fellow, FutureEarth/PAGES	2022

Seagoing Expeditions

Participant: Cruise RC2407, R/V ROBERT CONRAD. Abidjan, Ivory Coast to Abidjan. Seismic Survey, Piston Coring, Plankton tows.	April 1983
Co-Chief Scientist: Cruise W8709A, R/V WECOMA. Newport, OR to Newport, OR. Sediment traps, plankton tows, sediment cores.	Sept 1987
Co-Principal Investigator: Cruise VENTURE-1, R/V T. WASHINGTON. San Diego, CA to Manzanillo, Mexico, Coring.	Sept 1989
Co-Proponent and shipboard sedimentologist: Cruise LEG 138, D/V JOIDES RESOLUTION, Panama to San Diego, CA.	May-July 1991
Field Test of Coring facilities, R/V THOMAS THOMPSON, Caribbean Sea and Eastern tropical Pacific (site selection and shore-based support)	August 1991
Co-Principal investigator, Cruise W9406A, R/V WECOMA, Newport OR	June 1994
Co-chief Scientist, Cruise EW9504A, R/V M. EWING. San Diego-to-Eureka, CA. Coring and Seismic Survey.	May 1995
Chief Scientist, Genesis Expedition, Leg 3, R/V Roger Revelle. Punta Arenas Chile to Callao, Peru. Swath and Seismic Survey, Coring, Geochemistry	Feb-Apr 1997
Co-Principal investigator, R/V Thompson, PROD test cruise, Puget Sound, WA	April 2000
Co-Chief Scientist, NEMO Expedition, Leg 3, R/V Melville. Manzanillo Mexico to Puntarenas, Costa Rica. Swath & Seismic Survey, Coring, Geochemistry	May-June 2000
Co-Chief Scientist, ODP Leg 202, JOIDES Resolution, Valparaiso-Balboa	April-June 2002
Chief Scientist, EW0408 Expedition, R/V EWING, Newport OR – Kodiak, AK, High-Res. Swath mapping, MCS, Coring, Watersampling	Aug-Sep 2004
Shipboard Participant, Stratigraphic Correlator, IODP Expedition 323, D/V JOIDES Resolution, Bering Sea: Victoria BC to Yokohama, Japan	Jul-Sep 2009
Chief Scientist, EL1004 Cruise, R/V Elakha, Newport Oregon, Coring and Water	Mar 2010
Chief Scientist, EL1008 Cruise, R/V Elakha, Newport Oregon, Coring and Water	Aug 2010
Shipboard Sedimentologist. SO211 CHIMEBO Drilling Expedition, R/V Sonne, Valparaiso-Valparaiso, Chile. Seafloor Drilling, Watersampling, Plankton	Nov 2010
Chief Scientist, W1103A, R/V Wecoma, Newport Oregon, Coring and Water	March 2011
Proponent & Shipboard Stratigraphic Correlator, IODP Expedition 341, D/V JOIDES Resolution, Gulf of Alaska (Victoria BC to Valdez, Alaska).	Jun-Jul 2013
Chief Scientist, OD1507, Icebreaker Oden, Petermann Glacier Expedition	Jul-Sep 2015
Land Team Leader, Icebreaker Oden, Ryder19 Expedition, North Greenland	August 2019
Shipboard Scientist, R/V Oceanus, Newport Oregon, Cascadia HOPS Expedition	July 2020

Other Selected Professional Activities

Invited Participant: Chapman Conference on natural variations in the carbon cycle and atmospheric CO ₂ , Tarpon Springs, FL	January 1984
Invited Lecturer: Department of Geology, University of Bergen, Norway	June 1985
Invited Speaker: International Radiocarbon Convention, Trondheim, Norway	June 1985
Invited speaker and discussant: Decade of North American Geology Workshop -- The Last Deglaciation.	January 1986
Organizer and Host: SPECMAP Workshop on Paleoceanography, Corvallis	May 1986
Invited Speaker: International Congress of Paleoceanography, Woods Hole Oceanographic Institution, Woods Hole, MA	September 1986
Invited Speaker: National Science Foundation, Climate Dynamics Program, Washington, DC	January 1987
Invited Speaker: School of Fisheries and Marine Science, University of Washington, Seattle, WA	April 1987
Invited Lecturer: Quaternary Research Center, Univ. of Washington, Seattle	May 1987
Invited Speaker and Panel Chair: Cambridge Paleoclimate Symposium, Cambridge University, Cambridge, UK	June 1987
Invited Participant: COSOD-II, Conference on Scientific Ocean Drilling, Strasbourg, France	July 1987
Consultant to Discover Magazine on the role of the carbon cycle in the ice ages	August 1987
Hosted NOAA-PMEL Visiting Scholar, Dr. Chen Ronghua, Second Inst. Oceanography, Hangzhou, PRC, in residence at OSU Stable Isotope Lab	1987-1988
Invited Speaker and Panel Member: Dahlem Conference on Productivity of the Ocean, Past and Present, Berlin, Germany	April 1988
Invited Speaker: NATO Advanced Science Institute on Global Climate and Geoscience, Louvain-la-Neuve, Belgium	May 1988
Co-Organizer: USSAC Workshop on The Role of Ocean Drilling in Global Climate Initiatives, Corvallis, OR	June 1989
Co-Organizer: Paleoclimate Study Group. Monthly Seminar and Discussion Series Involving Participants From Many Departments at Oregon State University, University of Oregon, US Forest Service, and the Environmental Protection Agency, Corvallis, OR	1989-1990
Participant: SPECMAP Paleoclimate Modeling Workshop, Madison WI	April 1990
Invited Lecturer: Monsoons and Paleo-monsoons. A Special Session hosted by the Quaternary Research Center, University of Washington, Seattle.	May 1990
Invited Participant: J. Imbrie Honorary Symposium, Brown University, Providence, RI.	June 1990
Participant and Speaker, SPECMAP Workshop, San Francisco, CA	December 1990
Organizer and Chair: Three Special Sessions at AGU Meeting, San Francisco. Climate Change - Late Neogene Time Series and Models.	December 1990
Editor of Lithologic Descriptions, ODP Leg 138, Shipboard Results, Ocean Drilling Program, College Station, Texas.	October 1991
Panel Chair: NASA/GISS/LDGO Meeting on Paleoclimate Boundary	November 1991

Conditions for Climate Models. L-DGO, Palisades, NY

Invited Lecture Series: Hot Topics in Marine Geology. Woods Hole Oceanographic Institute, Woods Hole, MA April 1992

Invited Speaker: Yale University Department of Geology, New Haven, CT April 1992

Invited Participant: NATO Advanced Science Institute on Oceanic Productivity and Biogeochemical Cycles, Fellhorst, Germany Sept. 1992

Invited Participant: Fourth International Congress on Paleoceanography, Kiel, Germany Sept. 1992

Speaker: NOAA Geophys. Fluid Dynamics Laboratory, Princeton NJ November 1992

Invited Participant - MESH community planning meeting, Portland OR. April 1993

Co-Organizer, MESH Steering Committee, Corvallis, OR Sept 1993

Invited Speaker: South Atlantic Symposium, Univ. Bremen, Germany August 1994

Co-Organizer, MESH Workshop on Paleoceanographic Proxies, Corvallis January 1995

Organizer and Host, Ocean Drilling Program Planning Committee Meeting Portland, OR August 1995

Invited Keynote Speaker: 5th International Congress of Paleoceanography Halifax, Nova Scotia. October 1995

JOIDES Planning Committee Representative to Executive Committee Oslo, Norway July 1996

Invited Speaker & Working Group Leader, JOI/USSAC conference on Warm Climates. Santa Cruz, CA August 1996

Invited Speaker, Dept. of Geosciences, University of Oregon, Eugene February 1997

Chair and Host - NSF Climate Dynamics conference on last glacial Maximum climates, Corvallis. June 1997

Consultant to US News and World Report Magazine, on paleoclimate June 1997

Chair - EPILOG (Environmental Processes of the Ice age, Land, Ocean, Glaciers), Steering Committee, San Francisco December 1997

Co-organizer - IMAGES Western Americas Margin Meeting, Merida Venezuela April 1998

Invited Speaker – AGU Chapman Conference, Millennial-Scale Climate Change (Snowbird, Utah). June 1998

US Representative to IMAGES Scientific Steering Committee, Lisbon, PT August 1998

Chair - EPILOG (Environmental Processes of the Ice age, Land, Ocean, Glaciers), Open Meeting, Delmenhorst, Germany May 1999

Rapporteur, WHOI-Nat. Academy of Sciences Alkenone Conference October 1999

Invited Speaker - US Global Change Research Program, Washington DC November 1999

Invited Speaker - Ocean Drilling Seminar Series on Capitol Hill November, 1999

Invited Speaker – Tropical Ocean Climate Change, AGU (San Francisco) Dec 1999

Organizer and Chair – International conference for Core Curators (Corvallis) Sept. 2000

Co-organizer, EPILOG workshop, Global Ice Sheets at the Last Glacial Maximum (Timberline, Oregon). Oct 2000

Citationist, Easterbrook Medal for Quaternary Science, Geol. Soc. America Nov 2000

Invited Speaker – Climate Change in South America, GSA (Reno, NV) Nov 2000

Invited Speaker – Climate changes in the tropics. U.Calif. Santa Barbara April 2001

Guest Editor – Special Issue for EPILOG - Quaternary Science Reviews 2002

Invited Participant – JOI/USSAC Conference on Gulf of Alaska (Austin, TX) 2003

Invited Participant – NSF workshop on tropical paleoclimatology (Los Angeles) 2003

Invited Participant – IMAGES/MARGO project (Multiproxy Approach to reconstruction of the glacial oceans. Barcelona, Spain.	Aug, 2004
Invited Speaker – DOE/West Coas Regional Carbon Sequestration Partnership, On climate change in the Pacific Northwest, Public Seminar, Portland OR	Oct 2004
Special Session Chair – Climate and the Southeast Pacific and South America, AGU Annual Meeting, San Francisco	Dec 2004
Invited Speaker – UUFC Symposium – Explaining Climate Change – Public Seminar, on paleoclimate science and future change, Corvallis, OR	Jan 2005
Invited Speaker – Adult Literacy Project – Corvallis	Oct 2005
NSF – ESH/MESH future planning committee – Washington DC	Nov 2005
Invited Speaker, JOI-USAC Working Group on Orbital Scale Climate Change	May 2006
Invited Speaker – OSU Academy of Lifelong Learning – Global Climate Change.	May 2006
Invited Speaker – Adult Literacy Project – Corvallis	Oct 2006
Invited Participant, JOI-USAC Working Group on Orbital Scale Climate Change	May 2007
Invited Speaker - MARUM, University of Bremen, Germany	Sep 2007
Invited Speaker – Geowissenschaften, Christian-Albrechts Univ. Kiel, Germany	Apr 2008
Invited Speaker – Dept. of Earth Sciences, Univ. Koln, Germany	Apr 2008
Invited Speaker – CNRS, Gif-sur-Yvette, France	Apr 2008
Invited Speaker – Climate Prediction Workshop, Univ. Southern Californai	Jun 2008
Invited Speaker – Syntrace, University of Wisconsin	Aug 2008
Invited Speaker – MiLoco, Univ. Concepcion, Chile	Nov 2008
Special Session Chair – Past Climate Variability, AGU Annual Meeting, SF	Dec 2008
Invited Speaker, Foss Maritime, Seattle WA	Jan 2009
NSF Panel, Marine Geology and Geophysics.	May 2009
Theme Chair and Invited Speaker – Paleoenvironment, IODP INVEST, Bremen	Sep 2009
Theme Chair and Organizer, UNESCO YES Meeting of Young Scientists, Beijing	Oct 2009
Invited Speaker – Uni. Bremen. Program M - Women in Geosciences	Oct 2009
Invited Speaker – MARUM, Univ. Bremen	Nov 2009
Invited Speaker – NSF GEO Directorate – Future Themes	Jan 2010
Invited Speaker – CNRS, Gif-sur-Yvette, France	Jan 2010
Participant – First Workshop on Clumped Isotope Mass Spectrometry, Seattle	Apr 2010
Chapman Lectureship, University of Alaska, Fairbanks	Apr 2010
IFM/GEOMAR – Scientific Advisory Board, Kiel Germany	June 2010
IGBP/PAGES Steering Committee, Nagoya, Japan	June 2010
Invited Speaker – JAMSTEC, Yokosuba, Japan	Jun 2010
Invited Speaker – Atmos.-Ocean Research Inst., Univ. Tokyo, Japan	Jun 2010
Invited Participant – USIO JOIDES Resolution review panel, Victoria, Canada	Jun 2010
Participant – 10 th International Conference on Paleoceanography, La Jolla, CA	Sep 2010
Invited Lecturer – ECORD Summer School on Ocean Drilling, Bremen Germany	Sep 2010
Invited Speaker – SynTrace21, Timberline, Mt. Hood, Oregon	Oct 2010
Invited Speaker – AGU, San Francisco, California	Dec 2010
IGBP/PAGES Executive Committee, elected chair 2012-	Dec. 2010
IODP SASEC – representative of IGBP/PAGES, RSMAS, Miami	Jan 2011
Operational Review Task Force – IODP Expedition 318, LDEO, New York	Mar 2011
Chair, Board of Advisors, MARUM, Univ. Bremen, Germany	Apr 2011
Microbiology Initiative on Low Oxygen off Chile and Oregon, Paleo	Jun 2011

Perspectives – host scientists from Univ. Concepcion, Chile, Corvallis	
Invited Speaker, INQUA, Bern, Switzerland	Jul 2011
IGBP/PAGES science steering committee, Oberhofen, Switzerland	Jul 2011
Invited Speaker, IODP Expedition 323 Postcruise, Salamanca, Spain	Sep 2011
Invited Speaker, NSF, IGBP-PAGES, Ocean Leadership Greenland Workshop, Corvallis	Nov. 2011
Participant, Microbiology Initiative on Low Oxygen off Chile and Oregon, Synthesis, with Gordon and Betty Moore Foundation, Corvallis	Nov 2011
Co-Chair, NSF Workshop on Ice-Ocean Interactions, San Francisco, CA	Dec. 2011
Invited Speaker, AGU, San Francisco, California	Dec 2011
IGBP/PAGES COMPARE conference, Univ. Bremen, Germany	Mar 2012
Chair, IGBP/PAGES science steering committee, London, UK	Mar 2012
Delegate, and panel chair, Planet Under Pressure, London, UK	Mar 2012
Chair, Science Advisory Board, MARUM, Univ. Bremen, Germany	Oct. 2012
GBMF Microbiology and Hypoxia Initiative, Concepcion, Chile	Nov. 2012
Science Committee, IGBP/PAGES Open Science Meeting, Goa, India	Feb. 2013
Invited Keynote Address, PAGES Young Scientist Meeting, Goa India	Feb. 2013
Invited Speaker, Paleo Futures, NSF EAR	Mar 2013
US National Research Council, Decadal Survey Ocean Sci. Washington DC	Oct. 2013
Invited Speaker, PALSEA, Past Sea Level, Instituto Nazionale de Geofisica e Vulcanologia, Rome, Italy	Oct. 2013
Co-organizer, IGBP/PAGES COMPARE Conference, Corvallis, OR	Dec. 2013
Co-organizer, INQUA/PAGES Conference Carbon Cycle, Corvallis, OR	Dec. 2013
US National Research Council, Decadal Survey Ocean Sci. San Francisco,	Dec. 2013
Invited Speaker, AGU, North Pacific Gateway to the Arctic, San Francisco	Dec. 2013
Invited Delegate, Future Earth, US National Academies, Washington DC	Jan. 2014
Chair, Science Committee, IGBP/PAGES, Univ. Pierre & Marie Curie, Paris, FR	Jan. 2014
Chair, Scientific Advisory Committee, MARUM, Univ. Bremen, Germany	Mar. 2014
US National Research Council, Decadal Survey Ocean Sci. Univ. Hawaii,	Feb. 2014
US National Research Council, Decadal Survey Ocean Sci. San Francisco, CA	Apr. 2014
Invited Delegate, Future Earth Implementation, Kyoto, Japan	May. 2014
Invited Speaker, Research Institute for Humans and Nature, Kyoto, Japan	May 2014
Invited Speaker & Sci. Committee, Ocean Carbon Climate Change, Bern Switz.	Sep 2014
Invited Discussant, PAGES Workshop, Holocene Climate, Mt. Hood, OR	Oct 2014
Invited Speaker, Symposium on Past Global Change, Las Cruces, Chile	Feb. 2015
Invited Speaker, Future Earth Ocean Sciences Projects, Kiel, Germany.	Mar 2015
President Elect, President, and Past President of The Oceanography Society	2015-2020
Invited Speaker, Emiliani Lecture, American Geophysical Union	Dec 2015
Invited Keynote Lecture, Geological Society of the Oregon Country	Mar 2016
Invited Lecture, Vi, Stanford CA	May 2016
Invited Speaker, Stockholm Univ., Stockholm, Sweden	June 2016
Invited Speaker, Geologic Survey of Greenland and Denmark, Copenhagen	June 2016
Invited Speaker, Energinet DK (Danish Energy Authority)	June 2016
Invited Speaker, Institute for Lifelong Learning (Corvallis)	Jan 2017
Invited Speaker, Physics Institute, Univ. Bern, Switzerland	Apr 2017
Invited Speaker, OSU International Programs (Corvallis)	Apr 2017

Distinguished Professor Public Lecture (OSU)	May 2017
Science Defenders Committee, Washington DC	2018-19
Invited panelist and lecture – COL Policy Forum, Washington DC	Mar 2019
Climate Science Day – (AMS, AGU, GSA, TOS, etc) Washington DC	Mar 2019
Invited Speaker (Salem Rotary Club, Oregon)	Nov. 2021
Invited Speaker (Salem Creekside Rotary Club, Oregon)	May 2022

Alan C. Mix : Publications

Peer-reviewed publications – 246

Other publications – 102

Citations:

Google Scholar Citations = Citations 32,900, H=86. I10=220 (accessed January 2023)

<https://scholar.google.com/citations?user=WZSLXm0AAAAJ&hl=en>