UCAR Trustee Candidate
Eric J. Barron

The Members Nominating Committee is pleased to present Dr. Eric Barron as a candidate to the UCAR Board of Trustees for a second three-year term. Dr. Barron spent the early 1980s at NCAR as a fellow, post doctorial student, and as a member of the scientific staff. Dr. Barron has continued to build a distinguished career and has brought extensive scientific, management, leadership, and policy skills to the Board from a wide range of experiences, including being the Director of College of Earth and Mineral Sciences Environment Institute at Penn State, the Dean of the College of Earth and Mineral Sciences at Penn State, having served on many important National Research Council committees associated with weather and climate research and policy issues, having served on and lead a broad range of federal, national, and international advisory committees, having served on the UCAR SPEC committee and NCAR Scientific Computing Division Advisory Committee, given testimony in the Congress on a variety of issues, and having served on a broad range of AGU and AMS panels and committees. If re-elected, he will continue to bring significant research and policy expertise on climate change issues during a critical period in our nation's history on this subject. His insights, suggestions, and contributions during his first term on the Board of Trustees have been very valuable and his experience with the Board will be particularly helpful during the upcoming re-competition.

PERSONAL STATEMENT

Thank you for the honor of being nominated for a second term on the UCAR Board of Trustees. Participation in the Board has proven to be a great experience and one that has allowed me to continue my strong commitment to serving our community. I believe that the best mechanism to uphold that commitment is to continually challenge UCAR to be better in its role as an enabler of our sciences. I am struck that the value and importance of our science and the connections of our science with society are growing dramatically, yet at the same time we face many challenges in terms of funding, facilities, and the development of human capacity. In my view, these factors continue to demand that we think strategically, that we become stronger advocates for our science, and that we work to facilitate the interactions within our community and in partnership with other disciplines.

I have no doubt that the sciences of the Earth will grow in importance over the coming decades. The demand for a variety of new forecasting products continues to grow. The value of atmospheric information clearly spans an ever broadening range of timescales – from ancient climates to the next season to the next century. The observations, process

studies and modeling efforts of the atmospheric and ocean sciences serve as the foundation for societies' growing interest in forecasting, predicting, and projecting a host of environmental variables that are important to agriculture, energy use, water resources and human health. We play a fundamental role in efforts to protect life and property, to enable environmental stewardship, and to promote economic vitality, all through gaining a more fundamental understanding of the Earth and its interactions. Service to society and the delivery of "information" are also at the core of our disciplines. This implies the importance of a strong interface with a wide variety of users and an obligation to educate as a means of enhancing the value of atmospheric information that we deliver. The value and importance of our scientific contributions have also resulted in remarkably strong and critical roles by private industry, the university community, and national laboratories. This fact presents enormous opportunities in employment, in exploration, and in our ability to reach an ever broadening audience of users of our knowledge. It also presents additional challenges. In my view, the most significant of these continues to be the challenge of educating the next generation of scientists who will lead the world in the development of innovative instrumentation or in building the next generation forecast or climate model or in crossing the boundaries between disciplines.

If the opportunity is presented, I will look forward to applying the perspectives that I have gained as an educator, as a researcher, as a trustee, and as an administrator in order to serve UCAR and the UCAR community.

BIOGRAPHICAL INFORMATION

Education:

B.S., 1973	Florida State University (Geology)
M.S., 1976	University of Miami (Oceanography)
Ph.D., 1980	University of Miami (Oceanography)

Positions:

1980	Postdoctoral Research Fellow, NCAR, Boulder, Colorado
1981-1985	Scientist, Climate Section, NCAR, Boulder, Colorado.
1985-1986	Associate Professor, University of Miami
1986-	Director, Earth System Science Center and Associate Professor of Geosciences, The Pennsylvania State University (Penn State)
1989-	Professor of Geosciences, Penn State
1998- 2003	Director, EMS Environment Institute
2002-	Dean, College of Earth and Mineral Sciences
2002-	Trustee, University Corporation for Atmospheric Research
2003-	Board of Governors, Joint Oceanographic Institutions, Inc.

Professional Societies:

Fellow	American Geophysical Union (AGU)
Fellow	American Meteorological Society (AMS)
Member	Geological Society of America

Fellow	American Association for the Advancement of Science (AAAS)

Honors:

1969-1973	Honors Student, Florida State University
1975-1977	Texaco Fellow
1976	NCAR Supercomputing Fellow
1977-1978	Outstanding Student Award, Miami Geological Society
1979-1980	Koczy Fellowship (most outstanding student in last year of study)
1980	Smith Prize (most creative dissertation)
1988	Excellence of Presentation Award, Society of Economic Paleontologists and Mineralogists
1992	Wilson Research Award, College of Earth and Mineral Sciences, Penn State
1992, 1993	Provost Award for Collaborative Instruction and Curricular Innovations
1993	Excellence of Presentation Award, Society of Sedimentary Geology (SEPM)
1997	American Association of Petroleum Geologist's Distinguished Lecturer
1999	Wilson Teaching Award, College of Earth and Mineral Sciences, Penn State
1999	NASA Outstanding Earth Science Education Product ("Discover Earth: Earth-as-a-System")
1999	Distinguished Professor of Geosciences
2001	NASA Group Achievement Award for "Research Strategy for the Earth Science Enterprise"
2002-	Fellow, The National Institute for Environmental Science, Cambridge University, United Kingdom
2002	Frontiers in Geophysics Lecture, AGU
2003	NASA Distinguished Public Service Medal

Related Experience:

Publications

1985-1991	Editor-in-Chief, *Palaeogeography, Palaeoclimatology, Palaeoecology*
1988-1996	Editor, *Global and Planetary Change*
1989-1995	Associate Editor, *Journal of Climate*
1991	Member, AGU, Selection Committee *Paleoceanography* Editor
1992-	Member, Editorial Board, *Palaeogeography, Palaeoclimatology, Palaeoecology*
1994-1996	Member, Editorial Board, *Geotimes*
1994-2000	Member, Editorial Board, *Consequences*
1995, 1997	Chair, AGU, Selection Committee, Biogeochemical Cycles Editor
1995-1999	Editor-in-Chief, *Earth Interactions* (electronic journal of AMS, AGU and AAG)
1998	Editorial Board, Oxford University Press, Global Change Encyclopedia

Service to Societies

1986-1990	Member, AMS Committee on Climate Variations
1988-1991	Chair, AMS Committee on Climate Variations
1988-1990	Member, Global Sedimentary Geology Program Committee, Society of Economic Paleontologists and Mineralogists
1991	Chair, Penrose Conference Committee, Geological Society of America
1990-1991	Member, AGU , Maurice Ewing Medal Subcommittee
1991-1996	Chair, AMS Annual Meeting Program Committee for Global Change
1994	Member, AGU, Small Science Panel
1995-2002	Member, AGU Atmospheric Sciences Executive Committee
1998	Citation Author-AGU, Revelle Medal
1998	Member, American Association Petroleum Geologists, Task Force on Global Change
1998-	Member, AGU, Horton Award Sub-committee
2003	Member, AMS, Mid-term Strategic Planning Assessment team
2005	Chair, AGU Panel on U.S. Vision for Space

National Research Council

1987-1990	Member, Climate Research Committee
1990-1996	Chair, Climate Research Committee
1989	Member, Study Committee on Earth System History and Modeling, Global Change Committee
1990-1994	Member, Board on Global Change Research
1992-1996	Member, Committee on Human Dimensions of Global Change
1995-1997	Member, Board on Atmospheric Sciences and Climate
1997-1999	Co-Chair, Board on Atmospheric Sciences and Climate
1999-2003	Chair, Board on Atmospheric Sciences and Climate
1997-2002	Ex-officio, Committee on Global Change Research
1998-2000	Member, Panel on Grand Environmental Challenges
1999	Member, Panel on Assessment of NASA Post-2000 Plans
2002-2003	Member, Panel on Tracking and Predicting the Atmospheric Dispersion of Material Releases: Implications for Homeland Security
2003-2004	Chair, Committee on Metrics for Global Change Research
2004-2006	Member, Survey Steering Committee for Earth Science and Applications from Space: A Community Assessment and Strategy for the Future
2005-2006	Chair, Panel on Climate Variability and Change for Earth Science and Applications from Space: A Community Assessment and Strategy for the Future

Service to the Federal Government

1988	Member, NSF Review Panel, Ocean Drilling Program Plan, FY 1988-1990
1988-1990	Member, Ocean History Panel, NSF Ocean Drilling Program
1990-1994	Member, Science Executive Committee, NASA Earth Observing System
1994-1997	Chair, Science Executive Committee, NASA Earth Observing System
1990-1994	Chair, Climate and Hydrology Panel, NASA Earth Observing System

1990-1993	NCAR Scientific Computing Division Advisory Committee
1990-1993	Chair, NSF Advisory Committee, Marine Aspects of Earth System History
1989-1993	Climate Systems Modeling Project Advisory Board
1991-1993	Member, NSF Review Panel for Geological Record of Global Change
1992-1993	Member, Earth Science and Applications Advisory Committee, NASA
1993	Chair, Earth Science and Applications Advisory Committee, NASA
1994-1997	Member, Earth Science and Applications Advisory Committee, NASA
1994-1995	NCAR Director's Advisory Committee
1994	Chair, USGCRP Forum on Global Change Modeling
1994-1996	Chair, U.S. National Committee for PAGES and NSF Earth System History Panel
1995-1996	Chair, Allocation Panel for Interagency Climate Simulation Laboratory
1995	Testimony, U.S. House of Representatives, Committee on Science, NASA Budget
1997	Testimony, U.S. Senate, Committee on the Environment and Public Works – Global Warming
1997-1999	Member, NSF Geosciences Advisory Committee
1997	Chair, NSF Committee of Visitors on Ocean Sciences Facilities
1997	Co-Chair, White House/USGCRP workshop on "Impact on Climate Variation in the Mid Atlantic States"
1997-2000	Member, USGCRP National Assessment of Climate Impacts Synthesis Team
1998-2000	Member, NSF Geosciences Strategic Planning Committee GEO-2000
1998-	Member, NOAA Panel on Long Term Climate Monitoring
1999-	Member, NASA GSFC, Director's Advisory Committee
2000-	Member, DOE BERAC Subcommittee on Global Change
2000	Chair, Screening Committee, Director of Earth Sciences, GSFC
2000	Member, EPA Review Panel, Integrated Assessment
2000	Member, DOE Review Panel, Climate Change Prediction
2001	U.S. Senate Testimony on Climate Change Science– Committee on the Environment and Public Works
2001	Testimony, U.S. House of Representatives, Committee on Science-NOAA Budget
2001	Briefing, U.S. House of Representatives, Committee on Science-Climate Change Science
2003-	Member, NSF Steering Committee for Cyberinfrastructure Research and Development in the Atmospheric Sciences
2003-	Member, Earth Science and Applications Advisory Committee, NASA

International Service

1982-1987	Chair, International Geological Correlation Program (IGCP), Project 191, "Cretaceous Paleoclimatic Atlas Project"
1982-1986	Member, International Lithosphere Program (ILP), Working Group 7 "Paleoenvironmental Evolution of the Oceans and the Atmosphere" Participant, Conference on Scientific Ocean Drilling (COSOD) Organizer, Penrose Conference on Cretaceous Climates

1982-1986	Member, SCOR Working Group 79, "Geological Variations in Carbon Dioxide and the Carbon Cycle"
1986-1987	Member, Global Environmental Change Panel for Conference on Scientific Ocean Drilling (COSOD II)
1988-1990	Organizer, Global Sedimentary Geology Working Group on Paleogeography and Paleoclimatology
1995	International Review Member, Ocean Drilling Program
1996-1997	Member, Joint Steering Committee, World Climate Research Program