

# Ellen Mosley-Thompson

## Short Curriculum Vitae

Distinguished University Professor, Department of Geography

Director, Byrd Polar and Climate Research Center

The Ohio State University, Columbus, Ohio

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Full CV available at: <http://research.bpcrc.osu.edu/icecore/people.php#ellenmosleythompson>

**Ellen Mosley-Thompson** is a Distinguished University Professor in the Department of Geography (Atmospheric Science Program) and the Director of the Byrd Polar and Climate Research Center at The Ohio State University. She uses the chemical and physical properties preserved in cores collected from both polar ice sheets and high mountain glaciers to reconstruct Earth's complex climate history. These records indicate that Earth's climate has moved outside the range of natural variability experienced over at least the last 2000 years. She has led nine expeditions to Antarctica and six to Greenland to retrieve ice cores. In 2010 she led the field team for the ice core drilling project on Bruce Plateau (Antarctic Peninsula), a U.S. contribution to the International Polar Year, where the team collected a 448-meter core to bedrock. She has published 131 peer-reviewed papers and is the recipient of 51 research grants. She is a member of the National Academy of Sciences, the American Academy of Arts and Sciences and the American Philosophical Society and is a Fellow of the American Geophysical Union and the American Association for the Advancement of Science. She recently served on the NRC-NAS Committee that produced the 2014 report "The Arctic in the Anthropocene: Emerging Research Questions."

## Education

Ph.D., Geography (Climatology, Atmospheric Science), *The Ohio State University, Columbus Ohio, 1979*

M.A., Geography (Climatology, Atmospheric Science), *The Ohio State University, Columbus, Ohio, 1975*

B.S., Physics, *Marshall University, Huntington, West Virginia, 1970*

## Professional Appointments

- 2010-16 Distinguished University Professor, The Ohio State University
- 2009-16 Director, Byrd Polar and Climate Research Center, The Ohio State University
- 1995-16 Professor, Department of Geography (Atmospheric Science, Climatology), The Ohio State University
- 1996-16 Senior Research Scientist, Byrd Polar and Climate Research Center, The Ohio State University
- 1990-94 Associate Professor, Department of Geography (Atmospheric Science, Climatology), The Ohio State University
- 1988-96 Research Scientist, Byrd Polar Research Center, The Ohio State University
- 1984-87 Senior Research Associate, Institute of Polar Studies, The Ohio State University
- 1979-83 Research Associate, Institute of Polar Studies, The Ohio State University
- 1973-79 Graduate Research Associate, Institute of Polar Studies, The Ohio State University

## Key Indications of Scholarly Excellence

- ✚ Elected Member of the National Academy of Sciences, April 27, 2009
- ✚ Elected Member of the American Academy of Arts and Sciences, April 2011
- ✚ Elected Member of the American Philosophical Society, April 2009
- ✚ Benjamin Franklin Medal, The Franklin Institute, April 2012
- ✚ Dan David Prize, University of Tel Aviv, Israel, May 19, 2008
- ✚ The Common Wealth Award for Science and Invention, April 20, 2002
- ✚ Elected Fellow of the American Association for the Advancement of Science
- ✚ Elected Fellow of the American Geophysical Union, May 26, 2009

## Additional Indicators of Scholarly Excellence

- ✚ Green Energy Ohio, Pioneer of the Year (2013) Award, April 30, 2014
- ✚ Joseph Sullivant Medal, The Ohio State University, December 15, 2013
- ✚ Honorary Doctor of Science, University of Pennsylvania, May 13, 2013
- ✚ Designated as a Distinguished University Professor, 2010
- ✚ Honorary Doctor of Science, Colgate University, May 17, 2009
- ✚ American Alpine Club, David R. Brower Award for Outstanding Service in Mountain Conservation, February 21, 2009

- ✚ **Alumni Medalist Award**, The Ohio State University, November 9, 2007
- ✚ Elected, **OSU Sphinx Chapter Senior Member**, Spring, 2007
- ✚ Roy Chapman Andrews Society, **2007 Distinguished Explorer Award**
- ✚ Faculty Award for **Distinguished University Service**, The Ohio State University, December 17, 2005
- ✚ **University Distinguished Lecturer**, The Ohio State University, August 24, 2004
- ✚ **University Distinguished Scholar Award**, The Ohio State University, April 21, 2003
- ✚ Marshall University, **Distinguished Alumna, for Community Achievement**, April, 26, 2003
- ✚ **Inducted into Ohio Women's Hall of Fame**, October 7 by Governor Taft
- ✚ **John C. Marshall Award**, the highest award given by Marshall University (for distinguished scholarship), March 7, 2002

#### *Recognitions*

**The Mosley-Thompson Cirques** (Antarctica) located at 78°01'S; 161°28'E were named after Ellen Stone Mosley-Thompson, glaciologist and climatologist at The Ohio State University. Since 1974, Dr. Mosley-Thompson has analyzed ice samples from Antarctica and she has conducted field research at South Pole, Siple Station, and the Plateau Remote Camp.

### **Current and Recent National Service Activities**

- 2015-16 AGU, Global Environmental Change Focus Group, President Elect
- 2015-16 AGU, Global Environmental Change Focus Group, Fellows Committee, Chair
- 2012-16 National Academy of Sciences, U.S. National Committee for Quaternary Research, Member
- 2010-15 National Academy of Sciences, Polar Research Board, Member
- 2013-14 National Academy of Sciences, Study Group on Emerging Research Questions in the Arctic (Member)

### **Research Publications and Activities**

Refereed Publications: 131 total

Research Expeditions: 16 total

Funded Research Programs: 51 total