

**Ellen Mosley-Thompson** is a Professor and Distinguished University Scholar in the Department of Geography and a Senior Research Scientist in the Byrd Polar Research Center at the Ohio State University. She uses the chemical and physical properties preserved in ice cores collected from the polar ice sheets and high mountain glaciers to reconstruct the Earth's complex climate history. These records indicate that the Earth's climate has moved outside the range of natural variability experienced over at least the last 2000 years. Ellen has led eight expeditions to Antarctica and six to Greenland to retrieve ice cores. She established Antarctica's most extensive and longest running snow accumulation network at South Pole Station. Ellen holds a B.S. degree in physics and a Master's and Ph.D. in climatology and atmospheric sciences

Complete Vita available at [http://bprc.osu.edu/Icecore/vitae/emt\\_cv.pdf](http://bprc.osu.edu/Icecore/vitae/emt_cv.pdf)

**ELLEN STONE MOSLEY-THOMPSON**

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***DEGREES***

Ph.D., 1979, Geography (Climatology), The Ohio State University  
M.A., 1975, Geography (Climatology), The Ohio State University  
B.S., 1970, Physics, Marshall University

***POSITIONS***

1995-08 Professor, Department of Geography (Climatology), Ohio State University (OSU)  
1990-94 Associate Professor, Department of Geography (Climatology), OSU  
1988-96 Research Scientist, Byrd Polar Research Center, OSU  
1984-87 Senior Research Associate, Institute of Polar Studies, OSU  
1979-83 Research Associate, Institute of Polar Studies, OSU  
1973-79 Graduate Research Associate, OSU

***AWARDS***

2008 Dan David Prize, Dan David Foundation, Tel Aviv, Israel, May 19.  
2007 Alumni Medalist Award, The Ohio State University, November 9, 2007  
2007 Elected, OSU Sphinx Chapter Senior Member, Spring 2007  
2007 Roy Chapman Andrews Society, *2007 Distinguished Explorer Award*, winter 2007  
2005 Faculty Award for Distinguished University Service, OSU, Dec. 17, 2005  
2004 University Distinguished Lecturer, The Ohio State University, August 24, 2004  
2003 University Distinguished Scholar Award, The Ohio State University, April 21, 2003  
2003 Marshall Univ., Distinguished Alumna for Community Achievement, April 26, 2003  
2003 Inducted into Ohio Women's Hall of Fame, October 7 by Governor Taft  
2003 Elected as a Fellow of the American Association for the Advancement of Science  
2002 John C. Marshall Award (Marshall Univ.) for distinguished scholarship, March 7, 2002  
2002 The Common Wealth Award for Science and Invention (the award recognizes distinguished service to the world community), April 20, 2002

## ***CURRENT NATIONAL SERVICE ACTIVITIES***

- 2006+ Member, NRC-NAS Committee on Strategic Advice on the U.S. Climate Change Science Program
- 2001+ Member, AAAS Steering Group for Section E (Geology and Geography)
- 2000+ Associate Editor: Polar Geography
- 1996+ AAG Representative to the AAAS (Section W: Atmospheric Sciences)

## ***RESEARCH PUBLICATIONS AND ACTIVITIES***

**Peer Reviewed Papers:** (112 peer-reviewed papers)

**Research Grants:** (48 total grants awarded)

**Field Programs** (15 programs: 8 to Antarctica; 6 to Greenland; 1 to Peru)

### **Selected Peer Reviewed Papers (2008 - 2006 only)**

- 2008 Calder, C.A., Craigmile, P. F. and E. Mosley-Thompson. Spatial variation of the influence of the North Atlantic Oscillation on precipitation across Greenland. *Journal of Geophysical Research (Atmospheres)*, in press.
- 2007 Duan, K., L. G. Thompson, T. Yao, M. E. Davis and E. Mosley-Thompson. A 1000 year history of atmospheric sulfate concentrations in southern Asia as recorded by a Himalayan ice core. *Geophysical Research Letters*, 34, L01810, doi:10.1029/2006GL027456.
- 2006 Thompson, L.G., E. Mosley-Thompson, H. Brecher, M.E. Davis, B. Leon, D. Les, T.A. Mashiotta, P.-N. Lin, and K. Mountain. Evidence of abrupt tropical climate change: past and present. *Proceedings of the National Academy of Sciences*, 103(28), 10536-10543.
- 2006 Mosley-Thompson, E., L. G. Thompson and P.-N. Lin. A multi-century perspective on 20<sup>th</sup> century climate change with new contributions from high Arctic and Greenland (PARCA) cores. *Annals of Glaciology*, 43, 42-48.
- 2006 Thompson, L.G., E. Mosley-Thompson, M. E. Davis, T. A. Mashiotta, K. A. Henderson, P.-N. Lin, and Y. Tandong. Ice core evidence for asynchronous glaciation on the Tibetan Plateau. *Quaternary International*, 154/155, 3-10.
- 2006 Thompson, L.G., T. Yao, M.E. Davis, E. Mosley-Thompson, P.N. Lin, T.A. Mashiotta, V.N. Mikhailenko and V.S. Zagordonov. Holocene climate variability archived in the Puruogangri ice cape from the central Tibetan Plateau. *Annals of Glaciology*, 43, 61-69..
- 2006 Yao, T., Z. Li, L.G. Thompson, E. Mosley-Thompson, Y. Wang, L. Tian, N. Wang, and K. Duan.  $\delta^{18}\text{O}$  record in Tibetan ice reveals differences in climatic changes. *Annals of Glaciology*, 43, 1-7.
- 2006 Li, Z., R. Edwards, E. Mosley-Thompson, F. Wang, Z. Dong, X. You, H. Li, C. Li and Y. Zhu. Seasonal variability of ionic concentrations in surface snow and elution processes in snow-firn packs at the PGPI site on Ürümqi glacier No. 1, eastern Tien Shan, China. *Annals of Glaciology*, 43, 250-256.
- 2006 Grannas, A. M., W.C. Hockaday, P.G. Hatcher, L. G. Thompson and E. Mosley-Thompson. New revelations on the nature of organic matter in ice cores, *Journal of Geophysical Research-Atmospheres*, 111(D04304), doi:10.1029/2005JD006251.