

SHARON BUCHANAN SNEED
Climate Change Institute
Sawyer Environmental Research Center
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Orono, Maine 04469

EDUCATION

Ph.D. Candidate, 2010, University of Maine, ME
M.S. Marine Environmental Science, 1986, SUNY Stony Brook, NY
B.S. Chemistry, 1983, SUNY Stony Brook, NY

PROFESSIONAL EXPERIENCE

July 2000 to Present; Laboratory Manager, Climate Change Institute, University of Maine, Orono.

March 1999 to July 2000; Research Associate, Water Research Institute, University of Maine, Orono, ME 04469.

April 1996 to March 1999, and June 1985 to July 1992; Chemist, USAF Aerospace Fuels Laboratory, Searsport, ME.

August 1995 to April 1996: Research Analyst, FMC Corporation, Crocketts Point, Rockland, ME 04841.

July 1992 to August 1995: Environmental Chemist, ABB Environmental Services, Portland, ME.

December 1976 to July 1979; Chemistry Technician, United States Air Force, McClellan AFB, CA.

RELEVANT PUBLICATIONS

Bertler, N.A.N., & 54 others. 2005. Snow chemistry across Antarctica. *Annals of Glaciology*, 41, 52-56.

Dixon, D., P.A. Mayewski, S. Kaspari, S.B. Sneed, and M. Handley. 2004. A 200 year sub-annual record of sulfate in West Antarctica, from 16 ice cores. *Annals of Glaciology*, 39, 545-556.

Kaspari, S., P.S. Mayewski, D.A. Dixon, S.B. Sneed, and M.J. Handley. 2005. Sources and transport pathways of marine aerosol species into West Antarctica. *Annals of Glaciology*, 41, 1-9.

Kurbatov, S.V., G.A. Zielinski, N.W. Dunbar, P.A. Mayewski, E.A. Meyerson, S.B. Sneed, and K.C. Taylor. 2006. A 12,000 year record of explosive volcanism in the Siple Dome Ice Core. *Journal of Geophysical Research*, 111, D12307.

Mayewski, P.A., K.A. Maasch, Y. Yan, S. Kang, E.A. Meyerson, S.B. Sneed, S.D. Kaspari, D.A. Dixon, E.C. Osterberg, V.J. Morgan, T. van Ommen, and M.A.J. Curren. 2005. Solar forcing of the polar atmosphere. *Annals of Glaciology*, 41, 147-154.

Osterberg, E.O.C., M.J. Handley, S.B. Sneed, P.A. Mayewski, and K.J. Kreutz. 2006. continuous ice core melter system with discrete sampling for major ions, trace element and stable isotope analysis. *Environmental Science & Technology*, 40 (10), 3355-3361.

SYNERGISTIC ACTIVITIES

Lead technician on Keck laser ablation ICPMS development project.

Co-developer of a continuous melting sample processing system.

Participates in outreach programs including tours, science fairs, and informal lectures.

COLLABORATORS

N.A.N. Bertler, Victoria University

S. Kang, Chinese Academy of Sciences

K.J. Kreutz, University of Maine

A.V. Kurbatov, University of Maine

P.A. Mayewski, University of Maine

U. Morgenstern, Geological and Nuclear Sciences

GRADUATE ADVISORS

Ph.D.: Paul A. Mayewski, Stephen A. Norton, Kirk A. Maasch, Andrew C. Thomas, Andrei V. Kurbatov, University of Maine; Nancy A.N. Bertler, Victoria University, Wellington, NZ.

M.S.: J. Kirk Cochran, Mary I. Scranton, and Henry J. Bokuniewicz, SUNY Stony Brook.