

SHARON BUCHANAN SNEED  
Climate Change Institute  
Sawyer Environmental Research Center  
University of Maine  
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.