

Curriculum Vitae

Date & Place of Birth, Family: March 1, 1960; Lancaster, NH, USA; Married,
2 children born 13 Sep 95 & 9 Nov 99
Address: Ocean. Admin. Bldg. 104
COAS, Oregon State University
Corvallis, OR 97331-5503
(541) 737-3625 office (541) 737-2064 (FAX)
kfalkner@coas.oregonstate.edu
<http://chemoc.coas.oregonstate.edu/users/kfalkner>

EDUCATION

B.A., Chemistry with Russian minor, Reed College, 1983
Ph.D., Chemical Oceanography, M.I.T./W.H.O.I. Joint Program in Oceanography, 1989
Languages: French & Russian

ACADEMIC POSITIONS

Postdoctoral Researcher, M.I.T., 1989-1990
NATO Postdoctoral Research Fellow, Groupe de Recherche Géodésie Spatiale, Centre National
D'Etudes Spatiales, Toulouse, France, 1990-1992
Assistant Professor, College of Oceanic & Atmospheric Sciences, OSU, 1992-1997
Associate Professor, College of Oceanic & Atmospheric Sciences, OSU, 1997-2005
Full Professor, College of Oceanic & Atmospheric Sciences, OSU, 2005-present

COMMITTEES, EDITORSHIPS, etc...

NSF Office of Polar Programs, Office Advisory Committee, 2005-2008
Arctic-Subarctic Ocean Flux Science Steering Committee, 2003-
Associate Editor, *Geochimica et Cosmochimica Acta*, 2002-
University National Oceanographic Laboratory System Arctic Icebreaker Coordinating
Committee member 1996-2002
NSF Office of Polar Programs, Ocean-Atmosphere-Ice Interactions Steering Committee, 1997-
2001
NSF Office of Polar Programs, Strategic Plan for Marine Science in the Arctic Committee, 1998-
1999

RESEARCH INTERESTS

Application of inorganic elemental and isotopic measurements to aqueous geochemical issues
This entails sampling and analyses of waters and associated solids of diverse media including
snow, ice, rivers, lakes, seas and the ocean and analytical technique development using state-of-
the-art laboratory instrumentation, including ICPMS, TIMS & IRMS. Current projects include
tracing origins and pathways of river waters and other contributions to the upper Arctic Ocean,
characterizing nature and causes of variability in Arctic circulation and characterizing tributary and
main stem river chemistry of the Salmon River, OR as part of a collaborative study of salmon life
history as recorded in their otoliths.

HONORS

National Science Foundation Arctic Service Award, 2000
COAS Student Mentoring Award, 2000
Office of Naval Research Young Investigator Award, 1993
NATO Postdoctoral Fellowship, 1990
Association for Women in Science Predoctoral Award, 1987
National Science Foundation Graduate Research Fellowship, 1984-87
Phi Beta Kappa, 1983

FIELDWORK

Participated in 24 major seagoing, lake and river expeditions, 1981-2006; Chief Scientist 7 times

RECENT PUBLICATIONS

- Münchow, A., H. Melling and K. K. Falkner (2006) An observational estimate of volume and freshwater fluxes in Nares Strait, *J. Phys. Oceanogr.*, in press.
- Woodgate, R. A., K. Aagaard, J. H. Swift, K. Falkner and W. M. Smethie, Jr. (2005) Pacific ventilation of the Arctic's lower halocline by upwelling and diapycnal mixing over the continental margin, *Geophys. Res. Lett.*, 32(18), DOI 10.1029/2005GL023999.
- Falkner, K. Kenison, M. Steele, R. A. Woodgate, J. H. Swift, K. Aagaard and J. Morison (2005) Dissolved oxygen extrema in the Arctic Ocean halocline from the North Pole to the Lincoln Sea, *Deep-Sea Res.* 52, 1138-1154.
- Taylor, John Ryan; Falkner, Kelly Kenison; Schauer, Ursula; Meredith, Mike (2003) Quantitative considerations of dissolved barium as a tracer in the Arctic Ocean, *J. Geophys. Res.*, Vol. 108, No. C12, 3374, 10.1029/2002JC001635.
- Jones, E. P., J. H. Swift, L. G. Anderson, M. Lipizer, G. Civitarese, K. K. Falkner, G. Kattner, F. McLaughlin and J. Olafsson (2003) Tracing Pacific water in the North Atlantic Ocean, *Journal of Geophysical Research*, 108(C4), 3116, doi:10.1029/2001JC001141.
- Morison, J. H., K. Aagaard, K. K. Falkner, K. Hatakeyama, R. Moritz, J. E. Overland, D. Perovich, K. Shimada, M. Steele, T. Takizawa and R. Woodgate (2002) The North Pole Environmental Observatory, *EOS, Trans. Am. Geophys. Soc.*, 83:33:357-361.
- Vollmer, M. K., R. F. Weiss, R. T. Williams, K. K. Falkner, X. Qiu, E. A. Ralph and V. V. Romanovsky (2002) Physical and chemical properties of the waters of saline lakes and their importance for deep-water renewal: Lake Issyk-Kul, *Geochimica Cosmochimica Acta*, 66:24:4235-4246.
- Alleau, Y., D. Colbert, P. Covert, B. Haley, X. Qiu, R. Collier, K. Falkner, B. Hales, L. Gordon and F. Pahl (2001) Th-234 applied to particle removal rates from the surface ocean: a mathematical treatment revisited, *Geophysical Research Letters*, 28:14:2855-2857.
- Guay, Christopher K. H., Kelly Kenison Falkner, Robin D. Muench, Manfred Mensch, Markus Frank, and Reinhold Bayer (2001) Wind driven transport pathways for Eurasian Arctic river discharge, *Journal of Geophysical Research*, 106:C6:11,469-11,480.
- Sherrell, R. M., Boyle E. A., Falkner K. K., and N.R. Harris (2000) Temporal variability of Cd, Pb, and Pb isotope deposition in central Greenland snow. *Geochem. Geophys. Geosyst.*, vol. 1, Paper number 1999GC000007 [13,582 words, 6 figures, 2 tables]. May 30, 2000.
- Woodhouse, O. B., G. Ravizza, K. Kenison Falkner, P.J. Statham and B. Peucker-Ehrenbrink (1999) Osmium in seawater: concentration and isotopic composition vertical profiles in the eastern Pacific Ocean, *Earth and Planetary Science Letters*, 173:223-233.
- Macdonald, R. W., E. C. Carmack, F. A. McLaughlin, K. Kenison Falkner and J. H. Swift (1999) Connections among ice, runoff and atmospheric forcing in the Beaufort Gyre, *Geophysical Research Letters*, 26:14:2223-2226.
- Moore, W. S. and K. Kenison Falkner (1999) Cycling of radium and barium in the Black Sea, *J. Environmental Radioactivity* 43:247-254.
- Guay, C. K., G. P. Klinkhammer, K. K. Falkner, R. Benner, P. G. Coble, T. E. Whittedge, B. Black, F. J. Bussell and T. A. Wagner (1999) High-resolution measurements of dissolved organic carbon in the Arctic Ocean by in situ fiber-optic spectrometry, *Geophysical Research Letters* 26:8: 1007-1110.
- Guay, C. K. and K. Kenison Falkner (1998) A survey of dissolved barium in the estuaries of major Arctic rivers and adjacent seas, *Continental Shelf Research*, 18:8: 859-882.
- Guay, C. K. and K. Kenison Falkner (1997) Barium as a tracer of Arctic halocline and river waters, *Deep-Sea Research II*, 1994 Arctic Ocean Section, 44:8:1543-1569.
- Falkner, K. Kenison, M. Church, C. I. Measures, G. LeBaron, D. Thouron, C. Jeandel, M. C. Stordahl, G. A. Gill, R. Mortlock, P. Froelich and L.-H. Chan (1997) Minor and trace element chemistry of Lake Baikal, its tributaries, and surrounding hot springs, *Limnology and Oceanography*, 42:2:329-345.
- Falkner, K. Kenison, G.P. Klinkhammer, A. Ungerer and D. Christie (1995) Inductively coupled plasma mass spectrometry in geochemistry, *Earth and Planetary Sciences Annual Reviews*, 23:409-449.