

Curriculum Vitae GARON C. SMITH

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Education

B.A. in Environmental Biology, University of Colorado, Boulder, 1973
Ph.D. in Applied Chemistry (Analytical), Colorado School of Mines, 1983.
Dissertation: Quantification of Metal Ion Complexation in Multiligand Mixtures

Work Experience

2004- SENCER Senior Associate, NSF National Center for Science and Civic Engagement, Harrisburg University of Science and Technology, Harrisburg, PA
2002- Professor, Department of Chemistry, The University of Montana-Missoula
1991-2002 Associate Professor, Department of Chemistry, The University of Montana-Missoula
1989-91 Associate Professor, Department of Chemistry, SUNY College at Fredonia
1985-89 Assistant Professor, Department of Chemistry, SUNY College at Fredonia
1983-85 Assistant Professor, Department of Chemistry, Colorado College
1980-83 Viola Vestal Coulter Scholar, Department of Chemistry and Geochemistry, Colorado School of Mines
1976-80 HEW Mineral Fellowship, Graduate Teaching Assistant, Department of Chemistry and Geochemistry, Colorado School of Mines
1973-76 Instructor, Colorado Academy, Englewood, CO

Selected Recent Publications:

- D. Jones, T. Ward, D. Vanek, N. Marra, C. Noonan, G. Smith, E. Adams, 2007, Air Toxics Under The Big Sky – A High School Science Teaching Tool, **Science Education and Civic Engagement: An International Journal**, 1(2), 51-55.
- E. Adams, G. Smith, T. Ward, D. Vanek, N. Marra, D. Jones, M. Henthorn, J. Striebel, 2007, Air Toxics Under the Big Sky – A Real World Investigation to Engage High School Science Students, **J. Chem Educ.**, 85(2), 221-224.
- T.J. Ward and G.C. Smith, 2005, Vapor-Phase and PM_{2.5} Concentrations of Polycyclic Aromatic Hydrocarbons Measured During the Winter Months in a Northern Rocky Mountain Urban Airshed, **Journal of Air & Waste Manage. Assoc.**, 55:1007-1013.
- T.J. Ward and G.C. Smith, 2005, The 2000/2001 Missoula Valley PM_{2.5} Chemical Mass Balance Study, Including the 2000 Wildfire Season - Seasonal Source Apportionment, **Atmos. Environ.**, 39, 709-717.
- T.J. Ward, R.F. Hamilton, Jr. and G.C. Smith, 2004, The Missoula, Montana PM_{2.5} Speciation Study - Seasonal Average Concentrations, **Atmos. Environ.**, 38, 6371-6379.
- G.C. Smith, 2004, Building Civic Engagement Capacity: An Introductory Chemistry Example, **Liberal Education**, 90(3), 40-45.
- T.J. Ward and G.C. Smith, 2004, High Volume PUF vs. Low Volume PUF Sampling Comparison for Collecting Gas Plus Particulate Polycyclic Aromatic Hydrocarbons, **Aerosol Sci. and Tech.**, 38, 972-979.

- D.L. Tooke, G.C. Smith and L. R. Griffin, 2003, Dispersion of Hydrogen Sulfide from Wastewater Lagoons at a Kraft Pulp Mill, Missoula, Montana: Including the 2000 Wildfire Season. In **Proceedings of the 2003 TAPPI International Environmental Conference**, D. Edelmann, ed., TAPPI (Technical Association of the Pulp and Paper Industry), 2003, 19 p.
- J.J. Bromenshenk, C.B. Henderson and G.C. Smith, 2002, Performance Potential of Free-Flying Bees for the Detection of Landmines. In **Alternatives for Landmine Detection**, J.A. MacDonald and J.R. Lockwood, eds., RAND, MR-1608-OSTP, 273-283. (This is a "White Paper" report requested by the White House Staff.)
- G.C. Smith, J.J. Bromenshenk, D.C. Jones and G. Alnassar, 2002, Volatile and Semi-Volatile Organic Compounds in Beehive Atmospheres. In **Honey Bees: Estimating the Environmental Impact of Chemicals**, J. Devillers and M-H. Pham-Delegue, eds., Taylor & Francis, London, p. 12-41.
- J. Kapler Smith, N.E. McMurray and G.C. Smith, 2001, Educational Program about Wildland Fire Integrates Plant Science into Curriculum, *Plant Sci Bull.*, 2001, 47(3) 86-90.
- J.F. Sinski, G.C. Smith and J. Smith, 2001, Spectroscopy Based Neural Networks: Using 3-Dimensional Fluorescence Spectra and Artificial Neural Networks to Match Petroleum Contaminated Ground Water with Possible Sources, *Sci. Comp. & Instr.*, 2001, 18(9), 22-30.
- G.C. Smith and C. Wrobel, 2000, Modeling TRS and SO₂ Emissions from a Kraft Recovery Boiler Using an Artificial Neural Network", *TAPPI Journal*, 83(11), 69 (electronic journal article)
- G.C. Smith and J.F. Sinski, 1999, The Red-Shift Cascade: Investigations into the Concentration Dependent Wavelength Shifts in 3-Dimensional Fluorescence Spectra of Petroleum Samples, *Applied Spec.*, 53(11), 1459-1469
- G.C. Smith, C.L. Wrobel, 1999, Neurocontrol Applications in Industrial and Environmental Applications, in **Soft Computing in Systems and Control Technology**, S. Tzafestas ed., World Scientific Press, pp.445-466.

Other Professional Positions:

Senior Associate, National Science Foundation's National Center for Science and Civic Engagement, Harrisburg University
 Chair, Missoula City-County Board of Health, Air Pollution Control Board, Water Quality District
 Missoula Air Quality Advisory Council (Board liaison)
 Board of Governors, National Conferences on Undergraduate Research (Chair of 2000 and 2010 national meetings)
 Montana Board of Environmental Review (1995-2005)
 Oak Ridge National Laboratory, visiting scientist 2000-01
 Thousands of appearances at schools, youth groups, conferences, fund raisers in the guise of G. Wiz (Garon the Wizard)

Professional Citations/Awards

UM Special Student Services Award – April 2008
 Montana Faculty Service Award – February 2006
 2004 Innovative Excellence in Teaching, Learning and Technology Award, Fifteenth International Conference on College Teaching and Learning, Jacksonville, FL – March 2004
 UM Most Inspirational Teacher of the Year Award – April 2004

Graduate Student Productivity

Completed: 8 Ph. D students, 13 MS. In-Progress: 2 Ph.D. students, 2 M.S.