

EDUCATION

Ashland University, B.S. in Chemistry, 1979
The Ohio State University, M.S. in Agronomy, 1983
The University of South Florida, Ph.D. in Biology, 1987
Louisiana State University, M.S. in Analytical Chemistry, 1991

WORK AND RESEARCH EXPERIENCE

Current Position

Trustees' Distinguished Professor of Chemistry, appointed 2009
Professor of Chemistry, Ashland University, 1997 to present.

Previous Appointments

Chair, Department of Chemistry, Geology & Physics, 2006-2012.
Director of Core Curriculum, Ashland University, 1999-2006.
Director of Environmental Science Program, Ashland University, 1996-1999.
Associate Professor of Chemistry, Ashland University, 1993-1997.
Assistant Professor of Chemistry, Ashland University, 1989-1993.
Postdoctoral Researcher (Area: Natural products chemistry, chemical ecology) with
Nikolaus Fischer, Department of Chemistry, Louisiana State University, 1987-89.
Graduate Council Fellow, University of South Florida, 1984-86.
Teaching Assistant, Department of Biology, University of South Florida, 1983-84
Graduate Research Associate, Ohio State University, 1981-82
Research Assistant (Herbicide residue analysis/supervision of field experiments), Ohio
Agricultural Research and Development Center, 1980-81

HONORS

Fulbright Senior Science Specialist in Agriculture, 2011. Hosted by Charles Sturt
University, Wagga Wagga, Australia. I have been involved in the development of new
analytical methods for measurement of organic compounds released by plant roots in soil, and
have 43 published papers in the area of plant chemical ecology.

RESEARCH PUBLICATIONS (HEAVY METALS in CONSUMER PRODUCTS):

10. Weidenhamer, J., Miller, J.*, Guinn, D.*, and J. Pearson.* 2011. Bioavailability of cadmium in inexpensive jewelry. *Environmental Health Perspectives*, 119:1029-1033. DOI:10.1289/ehp.1003011
9. Weidenhamer, J., Newman, B.*, and A. Clever.* 2010. Assessment of leaching potential of highly leaded jewelry. *Journal of Hazardous Materials*, 177:1150-1152. DOI:10.1016/j.jhazmat.2010.01.016

8. Weidenhamer, J. 2009. Lead contamination of inexpensive seasonal and holiday products. *Science of the Total Environment*, 407: 2447-2450. doi:10.1016/j.scitotenv.2008.11.031
7. Weidenhamer, J. Feb. 2009. Lead in consumer products: A global circle of poison? *CUR Quarterly*, p. 33.
6. Yost, J.* and J. Weidenhamer. 2008. Accessible and total lead in low-cost jewelry items. *Integrated Environmental Assessment and Management*, 4(3): 358-361.
5. Yost, J.* and J. Weidenhamer. 2008. Lead contamination of inexpensive plastic jewelry. *Science of the Total Environment*, 393:348-350.
4. Weidenhamer, J. 2007. Circuit board analysis for lead by atomic absorption spectroscopy in a course for non-science majors. *Journal of Chemical Education*, 84:1165-1166. Featured on cover of July issue.
3. Weidenhamer, J. and M. Clement. 2007. Evidence of recycling of lead battery waste into highly leaded jewelry. *Chemosphere*, 69:1670-1672.
2. Weidenhamer, J. and M. Clement. 2007. Leaded electronic waste is a possible source material for lead-contaminated jewelry. *Chemosphere*, 69: 1111-1115.
1. Weidenhamer, J. and M. Clement. 2007. Widespread lead contamination of imported low-cost jewelry in the US. *Chemosphere*, 67: 961-965.

* = Undergraduate student

SUPERVISION OF UNDERGRADUATE RESEARCH:

During my career at Ashland University, I have supervised or co-supervised more than 30 students in Independent Study (CHEM or BIO 497) and summer research projects, have served as co-adviser for three honors' thesis projects, and as adviser for nine others. These projects have resulted in a total of 12 peer-reviewed publications co-authored by these students (including four articles on heavy metals in consumer products listed above), as well as more than 20 presentations by students at national and international scientific meetings.

RECENT RESEARCH FUNDING:

Research at Undergraduate Institutions Grant from the National Science Foundation, 2005-2008.
 "Measurement of allelochemical dynamics in the rhizosphere." \$196,935 over three years.
 REU (Research Experiences for Undergraduates) Supplement to the above award, National Science Foundation, 2006. \$6500 received to fund one additional student for summer 2006.
 National Science Foundation 2009-2012, "Acquisition of a 400-MHz NMR Spectrometer," submitted to Major Research Instrumentation Program. (Co-PI; Dr. Robert Bergosh is PI) \$319,340.
 Dr. Scholl Foundation, \$5000 support for research on cadmium bioavailability in children's jewelry (2010).
 Fulbright Agricultural Science Specialist Program, 2011 (Australia, visit hosted by Charles Sturt University).