

Jeffrey D. Weidenhamer

Curriculum Vitae

*Trustees' Distinguished Professor of Chemistry, Department of Chemistry, Geology & Physics
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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

Fullbright Senior Science Specialist in Agriculture, 2011. Hosted by Charles Sturt
University, Wagga Wagga, Australia

Australia Endeavour Research Fellowship, 2014. Hosted by Charles Sturt
University, Wagga Wagga, Australia

GRANTS RECEIVED

External:

Cottrell College Science Grant from the Research Corporation, 1991-1992. "Characterization and
environmental fate of biologically active natural products." \$26,000, matched by \$15,000 from

Ashland University for equipment.

Instrumentation and Laboratory Improvement Grant from the National Science Foundation, 1991-1994. Dr. Matthew Arthur was co-investigator. "Integrating chromatography into the chemistry curriculum." \$16,970, matched by an equal amount by Ashland University for gas and liquid chromatography equipment.

Instrumentation and Laboratory Improvement Grant from the National Science Foundation, 1992-1994, co-author with Dr. Priscilla LeBrun. "Upgrading IR spectrophotometry in the chemistry curriculum." \$14,344, matched by an equal amount by Ashland University for a Fourier transform infrared spectrophotometer.

GTE Foundation Lecture Series Grant, 1992-93. Dr. Douglas Chismar was project co-director. "Making stewardship work in the marketplace: Environmental ethics and modern technology." \$4,000.

Fran and Warren Rupp Foundation Grant, 1995. \$25,000, for Endowed Environmental Science Scholarships.

GTE Foundation Grant for Environmental Lecture Series Support and Laboratory Equipment, 1996. Proposal prepared in collaboration with the AU Development Office. \$45,000.

Keck/Project Kaleidoscope Consultancy on Kettering Renovation Project, 1998. Lead author with Soren Brauner and Vickie Van Dresar. (Funding handled by Project Kaleidoscope).

Fran and Warren Rupp Foundation Grant, 1999. \$15,000, for Environmental Lecture Series 2000-2001 and 2001-2002. Soren Brauner was co-administrator.

Course, Curriculum and Laboratory Improvement Adaptation and Implementation Grant from the National Science Foundation, 2000-2001. Drs. Michelle Jones-Wilson and Brian Mohny were co-authors. "Instrumentation to enhance an investigative approach to chemistry." \$61,298, matched by an equal amount by Ashland University for analytical instrumentation.

Clean Ohio Conservation Fund, Proposal to expand the Ashland University Black Fork Wetlands Preserve by acquisition of 240 acres adjoining the existing preserve. Project includes construction of boardwalk, parking lots, and development of outreach activities for local pre-college teachers and students. Co-author with Drs. Soren Brauner (project director) and Richard Stoffer. \$703,542, matched by \$234,514 from Ashland University.

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, "Acquisition of a 400-MHz NMR Spectrometer," submitted to Major Research Instrumentation Program. (Co-PI; Dr. Robert Bergosh is PI) \$319,340 [Funded].

Total external funding received: \$1,432,929

Total external funding and matching funds: \$1,776,055

SCHOLARSHIP:

My research has two primary foci:

(a) Analysis of plant root exudates and study of their effects on neighboring plants. This research has been funded by the National Science Foundation, was the basis for my Fulbright Senior Science

Specialist grant and Australian Endeavour Research Fellowship, and has resulted in international collaborations with researchers in Finland (Aki Sinkkonen, University of Helsinki), Germany (Matthias Rillig, Free University of Berlin) and Australia (Leslie Weston, Charles Sturt University)

(b) Contamination of consumer products such as toys and jewelry with lead and cadmium. This work grew out of a laboratory exercise in a non-majors course (CHEM 250, Lead and Civilization). In addition to the publications and presentations listed, this work with students and colleagues has resulted in at least 17 recalls by the US Consumer Product Safety Commission for lead and cadmium contamination, including the first recalls of consumer products in the US for cadmium contamination. Some of this research was cited in a Congressional resolution calling for a ban on the export of electronic waste. Our work on cadmium in jewelry was used as the basis for an extensive investigative report by the Associated Press that received worldwide attention.

INVITED PRESENTATIONS:

28. Weidenhamer, J. September 2011. Cadmium: The new lead?" Cincinnati OH, Invited symposium lecture at TriState Healthy Homes Conference.

27. Weidenhamer, J. August 2011. Measuring allelochemical dynamics in the rhizosphere: A key to understanding plant-plant interactions. Canberra Australia, Commonwealth Scientific and Industrial Research Organization, Division of Plant Industries.

26. Weidenhamer, J. August 2011. Experimental approaches for the measurement of allelochemical dynamics in the rhizosphere. Wagga Wagga Australia, Graham Centre at Charles Sturt University workshop on rhizosphere interactions.

25. Weidenhamer, J. July 2011. Measurement of allelochemical dynamics in the rhizosphere. Melbourne Australia, International Botanical Congress.

24. Weidenhamer, J. July 2011. Measuring allelochemical dynamics in the rhizosphere: A key to understanding plant-plant interactions. Wagga Wagga Australia, Charles Sturt University.

23. Weidenhamer, J. June 2011. Analytical strategies for ecologically active phytochemicals. Berlin Germany, Free University of Berlin.

22. Weidenhamer, J. November 2010. Analytical strategies for measuring allelochemical dynamics in soil. College of Wooster Department of Biology.

21. Weidenhamer, J. October 2010. Cadmium: The new lead?" Sandusky OH, Invited 45 min breakout session lecture at the Northwest Ohio Environmental Health Association Fall Conference.

20. Weidenhamer, J. June 2010. Cadmium: The new lead?" Sandusky OH, Invited 60 min symposium lecture at Healthy Homes and Lead Conference 2010, sponsored by the Ohio Department of Health.

19. Weidenhamer, J. August 2009. Analytical strategies for ecologically active phytochemicals

Baltimore, Phytochemical Society of North America.

18. Weidenhamer, J. November 2008. Lead in consumer products: A global circle of poison? Oberlin College Department of Chemistry.

17. Weidenhamer, J. September 2008. Measurement of allelochemical dynamics and movement with polydimethylsiloxane sorbents. Saratoga Springs, NY, Fifth World Congress on the International Society of Allelopathy.

16. Weidenhamer, J. August 2008. Lead: Using a potent neurotoxin to teach environmental principles. Philadelphia, PA, National meeting of the American Chemical Society.

15. Weidenhamer, J. August 2008. Diffusive sampling of the rhizosphere using polydimethylsiloxane sorbents. Philadelphia, PA, National meeting of the American Chemical Society.

14. Weidenhamer, J. June 2008. Lead: An ancient but still present hazard. Chicago, Illinois Chapter of the American Chemical Society.

13. Weidenhamer, J. May 2007. Diffusive sampling methods for analysis of the rhizosphere. Invited platform presentation. Presented at the Europe meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Porto, Portugal.

12. Weidenhamer, J. August 2005. Measurement of allelochemical dynamics in the rhizosphere. Part of a symposium on allelopathy at the August joint meeting of the Ecological Society of America and International Congress on Ecology in Montreal.

11. Weidenhamer, J. August 2005. Measurement of allelochemical dynamics in the rhizosphere. Invited plenary lecture at the Fourth World Congress on Allelopathy, held at Charles Sturt University in Wagga Wagga, Australia.

10. Weidenhamer, J. August 2005. Evaluation of the allelopathic potential of a mustard cover crop. Invited presentation, coauthored by Jeanne Durkalski and Warren Dick of Ohio State University. Presented at the Fourth World Congress on Allelopathy, held at Charles Sturt University in Wagga Wagga, Australia.

9. Weidenhamer, J. April 2004. Allelopathic mechanisms and experimental methodology. International Symposium on Allelopathy Research and Application. Sanshui, China.

8. Weidenhamer, J. April 2004. Ecological weed management: Lessons from the Florida scrub. International Conference on the Theory and Practice of Ecological Agriculture, Nanchang, China.

7. Weidenhamer, J. April 2002. Killing off the competition: Allelopathy in plant communities. Invited lecture, Department of Biological Sciences; Mississippi State University.

6. Weidenhamer, J. April 2001. Invited lecture on Chemical interference in plant communities, Williams College (MA).

5. Weidenhamer, J. 1999. Separating resource competition from allelopathy is not only realistic, it is essential. Invited symposium lecture, presented at the Second World Congress on Allelopathy, Thunder Bay, Ontario.
4. Weidenhamer, J. 1999. Panelist for discussion on methodology. Second World Congress on Allelopathy, Thunder Bay, Ontario.
3. Weidenhamer, J. 1996. New strategies for allelopathy bioassays. Invited symposium paper presented at the First World Congress on Allelopathy, Cadiz, Spain.
2. Weidenhamer, J. 1996. New methodologies for the study of allelopathy. Invited plenary lecture presented at international symposium on chemical ecology hosted by UNAM, the Universidad Nacional Autonoma de México.
1. Weidenhamer, J. 1994. Distinguishing resource competition and chemical interference: Overcoming the methodological impasse. Invited symposium presentation, Agronomy Society of America, Seattle, WA.

PUBLICATIONS OF UNDERGRADUATE RESEARCH:

I have supervised or co-supervised more than 45 students in Independent Study (CHEM or BIO 498) and summer research projects, have served as co-adviser for four honors' thesis projects, and as adviser for nine others.

Publications with undergraduate co-authors:

12. **Weidenhamer, J.**, Li, M.*, Allman, J.*, Bergosh, R. G., and M. Posner. 2013. Evidence does not support a role for gallic acid in *Phragmites australis* invasion success. *Journal of Chemical Ecology*, 39: 323-332; DOI: 10.1007/s10886-013-0242-y.
11. **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
10. **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
9. **Weidenhamer, J.**, Boes, P.* and D. Wilcox.* 2009. Solid-phase root zone extraction (SPRE): A new methodology for measurement of allelochemical dynamics in soil. *Plant and Soil*, 322: 177-186. DOI: 10.1007/s11104-009-9905-4.
8. Mohny, B., Matz, T.*, LaMoreaux, J.*, Wilcox, D.*, Gimsing, A., Mayer, P. and **J. Weidenhamer**. 2009. *In situ* silicone tube microextraction: A new method for undisturbed sampling of root-exuded thiophenes from marigold (*Tagetes erecta* L.) in soil. *Journal of Chemical Ecology*, 35(11):1279-1287. This article was featured on the Nov. 2009 issue cover.

7. Yost, J.* and **J. Weidenhamer**. 2008. Accessible and total lead in low-cost jewelry items. *Integrated Environmental Assessment and Management*, in press.
6. Yost, J.* and **J. Weidenhamer**. 2008. Lead contamination of inexpensive plastic jewelry. *Science of the Total Environment*, 393:348-350.
5. Loi, R.*, Solar, M. and **J. Weidenhamer**. 2007. Solid phase microextraction method for *in vivo* measurement of allelochemical uptake. *Journal of Chemical Ecology*, 34:70-75.
4. Delaney, K.R., Bissett, N., **Weidenhamer, J.**, 1999, "A new species of *Carphephorus* (Asteraceae; Eupatorieae) from peninsular Florida", *The Botanical Explorer*, 1:1-15 (Rachel Lerebours* was acknowledged as a contributor to this work).
3. Martin, J.* and **J. Weidenhamer**. 1995. Potassium deficiency increases thiophene production in *Tagetes erecta*. In *Phytochemicals and Health*, ed. D.L. Gustine and H.E. Flores. *Current Topics in Plant Physiology*, Vol. 15
2. Thijs, H.*, J.R. Shann and **J. Weidenhamer**. 1994. The effect of phytotoxins on competitive outcome in a model system. *Ecology*, 75(7):1959-1964.
1. Williamson, G., E. Obee* and **J. Weidenhamer**. 1992. Inhibition of *Schizachyrium scoparium* (Poaceae) by the allelochemical hydrocinnamic acid. *Journal of Chemical Ecology*, 18(11):2095-2105. (Student supervised at Louisiana State University)

* denotes undergraduate student under my supervision at time research was done.

ADDITIONAL PUBLICATIONS

Theses:

Weidenhamer, J. 1991. M.S. Thesis. Analytical studies of biologically active natural products. Louisiana State University, Baton Rouge, LA.

Weidenhamer, J. 1987. Ph.D. Dissertation. Allelopathic properties of *Polygonella myriophylla*. The University of South Florida, Tampa, FL.

Weidenhamer, J. 1983. M.S. Thesis. The effect of low rates of dicamba on soybean growth and yield. The Ohio State University, Columbus, OH.

Articles in Refereed Journals, Book Chapters (including papers with undergraduates, 54 total peer-reviewed papers including those with undergraduates) :

42. Hansi M, **Weidenhamer J.**, Sinkkonen A. 2014. Plant growth responses to inorganic environmental contaminants are density-dependent: experiments with copper sulfate, barley and lettuce. *Environmental Pollution* 184: 443-448.

41. Barto, E.K., **J. Weidenhamer**, D. Cipollini and M.C. Rillig. 2012. Fungal superhighways: do common mycorrhizal networks enhance below ground communication?. *Trends in Plant Science*. <http://dx.doi.org/10.1016/j.tplants.2012.06.007>

40. Barto, E.K., M. Hilker, F. Müller, B.K. Mohny, **J. Weidenhamer** and M.C. Rillig. 2011. The fungal fast lane: Common mycorrhizal networks extend bioactive zones of allelochemicals in soils. *PLoS One* 6(11): e27195.
39. Menelaou, M.A., Hernandez, H.P., Macias, F.A., **Weidenhamer, J.**, Williamson, G.B., Fronczek, F.R., Fischer, H.D. and N.H. Fischer. 2010. Constituents of *Calamintha ashei*: Effects on Florida sandhill species. *Natural Product Communications* 5(5): 685-694.
38. **Weidenhamer, J.**, and R. Callaway. 2010. Direct and indirect effects of invasive plants on soil chemistry and ecosystem function (invited review). *Journal of Chemical Ecology*, 36(1): 59-69. DOI: 10.1007/s10886-009-9735-0
37. **Weidenhamer, J.** Feb. 2009. Lead in consumer products: A global circle of poison? *CUR Quarterly*, p. 33.
36. Bertin, C., Harmon, R., Akaogi, M., **Weidenhamer, J.** and L. Weston. 2009. Assessment of the phytotoxic potential of *m*-tyrosine in laboratory soil bioassays. *Journal of Chemical Ecology*, 35(11):1288-1295. DOI: 10.1007/s10886-009-9707-4
35. Dayan , F., Howell, J. and **Weidenhamer, J.** 2009. Dynamic root exudation of sorgoleone and its in planta mechanism of action. *Journal of Experimental Botany*, 60: 2107–2117.
34. **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
33. **Weidenhamer, J.** 2008. “Allelopathic mechanisms and experimental methodology.” Pp. 119-35 In: (R.S. Zeng, A.U. Mallik, and S.M. Luo, eds.) *Allelopathy in Sustainable Agriculture and Forestry* (New York: Springer Science and Business Media).
32. **Weidenhamer, J.** and M. Clement. 2007. Widespread lead contamination of imported low-cost jewelry in the US. *Chemosphere*, 67: 961-965.
31. **Weidenhamer, J.** 2007. New approaches for the analysis of allelochemicals in soil. *Allelopathy Journal*, 19(1): 135-142 (Invited review).
30. **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.
29. **Weidenhamer, J.** and M. Clement. 2007. Leaded electronic waste is a possible source material for lead-contaminated jewelry. *Chemosphere*, 69: 1111-1115.
28. **Weidenhamer, J.** and M. Clement. 2007. Evidence of recycling of lead battery waste into highly leaded jewelry. *Chemosphere*, 69:1670-1672.

27. **Weidenhamer, J.** 2006. "Distinguishing allelopathy from resource competition: The role of density." Pp. 85-103 In: (M. Reigosa, N. Pedrol, and L. González, eds) *Allelopathy: A physiological process with ecological implications* (New York: Springer Science and Business Media).
26. **Weidenhamer, J.** 2005. Biomimetic measurement of allelochemical dynamics in the rhizosphere. *Journal of Chemical Ecology*. 31(2): 221-236.
25. **Weidenhamer, J.** and J. Romeo. 2005. "Allelopathy as a mechanism for resisting invasion: The case of *Polygonella myriophylla*." Pp. 167-177 In: (Inderjit, ed.) *Invasive Plants: Ecological and Agricultural Aspects* (Switzerland: Birkhauser-Verlag AG).
24. Lane, N., **J. Weidenhamer** and J. Romeo. 2004. *Zapoteca formosa* (Mimosaceae): Sulfur Chemistry and Phytotoxicity. *Journal of Chemical Ecology* 30(2): 425-437.
23. **Weidenhamer, J.** and J. Romeo. 2004. Allelochemicals of *polygonella myriophylla*: chemistry and soil degradation. *Journal of Chemical Ecology* 30(5): 1067-1082.
22. **Weidenhamer, J.** 2004. Review of Allelopathy: Chemistry and mode of action of allelochemicals (F.A. Macías, J.C.G. Galindo, J.M.G. Galindo, J.M.G. Molinillo, H.G. Cutler, eds). *Journal of Chemical Ecology* 30(5): 1083-1085.
21. **Weidenhamer, J.** 2001. Chapter 2: Nuevas Metodologías para el Estudio de la Alelopatía. Pp 69-97. In: A.L. Anaya, F.J. Espinosa-García, and R. Cruz-Ortega, editors. *Relaciones químicas entre organismos: aspectos básicos y perspectivas de su aplicación*. Instituto de Ecología, UNAM y Plaza y Valdés, S.A. de C.V. México.
20. Gibson, D.J., J. Connolly, D.C. Hartnett, and **J. Weidenhamer**. 1999. Designs for greenhouse studies of interactions between plants. *Journal of Ecology*, 87:1-16.
19. Romeo, J. and **J. Weidenhamer**. 1998. Bioassays for Allelopathy in Terrestrial Plants. Pp. 179-211 In K.F. Haynes and J.G. Millar (eds.), *Methods of Chemical Ecology, Volume 2: Bioassay Methods*. Kluwer Academic Publishers, Norvell, MA.
18. **Weidenhamer, J.** 1997. Environmental projects in the quantitative analysis lab. *Journal of Chemical Education*, 74(12):1437-1440.
17. **Weidenhamer, J.** 1996. Distinguishing resource competition and chemical interference: Overcoming the methodological impasse. *Agronomy Journal*, 88(6):866-875.
16. Menelaou, M.A., F.A. Macias, **J. Weidenhamer**, G.B. Williamson and N.H. Fischer. 1995. Sesquiterpenes from *Chrysoma pauciflorescens*. *Spectroscopy Letters*, 28(7):1061-1074.
15. **Weidenhamer, J.**, M.A. Menelaou, F.A. Macias, N.H. Fischer, D.R. Richardson and G.B. Williamson. 1994. Allelopathic potential of menthofuran monoterpenes from *Calamintha ashei*. *Journal of Chemical Ecology*, 20(12):3345-3359.

14. Fischer, N.H., G.B. Williamson, **J. Weidenhamer** and D.R. Richardson. 1994. In search of allelopathy in the Florida scrub: The role of terpenoids. *Journal of Chemical Ecology*, 20(6):1355-1380.
13. Menelaou, M.A., **J. Weidenhamer**, G.B. Williamson, F.R. Fronczek, H.D. Fischer, L. Quijano and N.H. Fischer. 1993. Diterpenes from *Chrysoma pauciflosculosa*: Effects on Florida sandhill species. *Phytochemistry*, 34(1):97-105.
12. **Weidenhamer, J.**, F. Macias, N. Fischer and G. Williamson. 1993. Just how insoluble are monoterpenes? *Journal of Chemical Ecology*, 19(8):1827-1835.
11. **Weidenhamer, J.**, E. Jordan and N. Fischer. 1990. Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae. *Journal of Chromatography*, 504(1990):151-161.
10. Williamson, G. and **J. Weidenhamer**. 1990. Bacterial degradation of juglone: Evidence against Allelopathy? *Journal of Chemical Ecology*, 16(5):1739-1741.
9. Fischer, N., **J. Weidenhamer**, J. Riopel, L. Quijano and M. Menelaou. 1990. Stimulation of witchweed germination by sesquiterpene lactones: A structure-activity study. *Phytochemistry*, 29(8):2479-2483.
8. Fischer, N., G. Williamson, **J. Weidenhamer**, N. Tanrisever, A. de la Pena, E. Jordan and D. Richardson. 1989. Allelopathic mechanisms in the Florida Scrub. In *Phytochemical Ecology* (C.H. Chou and G. Waller, eds.), Institute of Botany, Academia Sinica Monograph Series No. 9, Taipei, pp. 175-182.
7. **Weidenhamer, J.** and J. Romeo. 1989. Allelopathic properties of *Polygonella myriophylla*: Field evidence and bioassays. *Journal of Chemical Ecology*, 15(7):1957-1970.
6. **Weidenhamer, J.**, D. Hartnett and J. Romeo. 1989. Density-dependent phytotoxicity: Distinguishing resource competition and allelopathic interference in plants. *Journal of Applied Ecology*, 26(2):613-624.
5. **Weidenhamer, J.**, F. Sobotka and G. Triplett. 1989. Dicamba injury to soybean. *Agronomy Journal*, 81(4):637-643.
4. Fischer, N., **J. Weidenhamer** and J. Bradow. 1989. Inhibition and promotion of germination by several sesquiterpenes. *Journal of Chemical Ecology*, 15(6):1785-1793.
3. Fischer, N., **J. Weidenhamer** and J. Bradow. 1989. Dihydroparthenolide and other sesquiterpene lactones stimulate witchweed (*Striga asiatica*) germination. *Phytochemistry*, 28(9):2315-2317.
2. Fischer, N., G.B. Williamson, N. Tanrisever, A. de la Pena, **J. Weidenhamer**, E. Jordan and D. Richardson. 1989. Allelopathic actions in the Florida Scrub Community. *Biologia Plantarum* 31(6):471-478.

1. **Weidenhamer, J.**, T. Morton and J. Romeo. 1987. Seed number and solution volume: Often overlooked factors in allelopathic bioassays. *Journal of Chemical Ecology* 13(6):1481-1491.

* denotes undergraduate student under my supervision at time research was done.

MANUSCRIPTS REVIEWED FOR

Occasional:

Agronomy Journal; American Chemical Society (Symposium volume); American Journal of Botany; Annals of Botany; Biochemical Systematics and Ecology; Botanical Bulletin of Academia Sinica; Chemoecology; Ecology; Ecology Letters; Environmental and Experimental Botany; Journal of Applied Ecology; Journal of Experimental Botany; Journal of Nonlinearity in Biology, Toxicology, and Medicine; New Phytologist; Oikos; Phytochemistry; Plant and Soil; University of Oklahoma Press; New Zealand Journal of Crop and Horticultural Science

Regular:

Allelopathy Journal; Journal of Chemical Ecology (4-9 manuscripts/yr); Plant and Soil

PROFESSIONAL MEMBERSHIPS

American Chemical Society
Council on Undergraduate Research
International Society of Allelopathy
(Serving as Secretary of the Society, 1999-2005)
International Society of Chemical Ecology
Phytochemical Society of North America