

## **Rhonda Leigh Sherman**

Extension Specialist, Solid Waste Management  
North Carolina State University  
Department of Horticultural Science  
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Rhonda Sherman holds a 100% extension appointment and her areas of expertise are vermicomposting, composting, recycling and waste reduction. She is considered one of the leading authorities on vermicomposting and has received requests for information from people in 109 countries. Rhonda gives about 40 presentations per year.

Rhonda organizes and runs an annual conference on large-scale commercial vermicomposting that draws participants from all over the world. She will hold her 18<sup>th</sup> Vermiculture Conference in October 2017. Each year, people from as many as 27 U.S. states attend the conference in addition to participants from foreign countries (past conference attendees came from Argentina, Australia, Belgium, Canada, China, Dominican Republic, Greece, Guatemala, Hong Kong, India, Israel, Latvia, Mexico, Nigeria, Norway, Philippines, Micronesia, Puerto Rico, South Africa, Switzerland, Thailand, Turkey, and Uganda). Testimonials: *"The conference was definitely worth the time and money. I learned so much...not just about earthworms, but soil composition, minerals, testing, teas, diseases, correct processes to follow, etc. I'm looking forward to next year's conference already!" ~S.S., North Carolina; "Count me as an extremely satisfied conference attendee. I was truly impressed and hope to be one of your "frequent fliers." I was particularly impressed with the depth of the science presented." ~S.F., New York*

Rhonda has a two-acre Compost Learning Lab (CL2) at The Lake Wheeler Road Field Laboratory. The CL2 has a 40-ft by 30-ft building, an equipment shed, and a covered teaching shelter. There are 25 types of composting and vermicomposting bins and areas for hands-on training activities. Flowerbeds, fruit trees, and native trees/shrubs/grasses are being installed and research areas are being developed.

Rhonda co-founded the North Carolina Composting Council (NCCC). She was formerly a member of the Board of Directors of the U.S. Composting Council and a contributing editor to BioCycle Journal of Composting and Organics Recycling.

Scholarly & Creative Activities	Number
Book chapters	7
Books	1
Extension publications	23
Manuals	4
Other publications	42
Conferences/workshops hosted	19
Classroom guest lectures	47
Presentations at conferences, workshops, courses	>1,000
Grants	20 totaling \$1,366,070

**Education Background**

M.A., Environmental and Resources Analysis: Solid Waste Management. 1989. Western Michigan University, Kalamazoo, MI

B.S., Environmental Studies and Urban/Regional Planning. 1981. Western Michigan University, Kalamazoo, MI. *Magna cum laude. Presidential scholar.*

**Professional Experience**

Extension Specialist, September 1, 2016 – present, Horticultural Science Department, NC State University

Same work, different department

Extension Specialist, January 1, 1993-August 31, 2016, Biological & Agricultural Engineering, NC State University

Implemented a statewide educational and technical assistance program to increase awareness and understanding of solid waste management issues. Conducted waste assessments and evaluated potential waste reduction program enhancements. Created an international vermicomposting resource center with web pages, written and audiovisual materials, research, and training. Developed a Compost Learning Lab that features an extensive variety of on-site composting and vermicomposting systems, demonstrations of the beneficial reuse of compost, and hands-on training. Provide the only annual training on large-scale vermicomposting. Responded to requests for information from people in 109 countries.

Waste Management Analyst, 1991-1992, Office of Waste Reduction, NC-DEHNR, Raleigh, NC

Designed and implemented solid waste management education and training programs.

Provided waste reduction technical assistance to local governments, institutions and businesses. Oversaw grant-funded projects. Developed guidance documents. Coordinated specific waste reduction and composting projects.

Recycling Coordinator, 1990-1991, Office of Waste Reduction and Recycling, UNC-Chapel Hill

Planned and implemented campus recycling program. Promoted campus awareness and

participation in recycling. Researched effective policies, technologies and programs. Designed promotional and educational brochures. Coordinated recycling strategies and activities with a student group. Hired and supervised assistants.

Assistant Director, 1986-1990, Environmental Studies Program, Western Michigan University, Kalamazoo, MI

Designed and coordinated program and curriculum development, advised students on program requirements and course selection, administered environmental career counseling, wrote and produced newsletter, *created and implemented recruitment strategies which resulted in enrollment increase of 380 percent*. Taught a comprehensive course on environmental problems and solutions. Designed and taught a course on solid waste management. Co-taught senior capstone course.

### **Books and Book Chapters (8)**

Sherman, R. 2016. Composting, Chapter 2. Extension Gardener Handbook. NC Cooperative Extension Service. <<http://content.ces.ncsu.edu/2-composting>>

Osmond, D. L., Crozier, C. R., Sherman, R., and LeBude, A. V. 2015. Nutrient Contact of Fertilizer Materials, Chapter IV- Fertilizer Use. *AgChem Manual*. NC State University.

Lowe, C. N., Butt, K. R. & Sherman, R. L. 2014. Current and potential benefits of mass earthworm culture. *Mass Production of Beneficial Organisms*. Elsevier, Inc. Chapter 20, 683-709.

Edwards, C., Arancon, N., & Sherman, R. (Eds.). 2011. *Vermiculture Technology: Earthworms, Organic Waste, and Environmental Management*. Boca Raton: FL: CRC Press.

Sherman, R. 2011. Vermicomposting in businesses and institutions. *Vermiculture Technology: Earthworms, Organic Waste, and Environmental Management*. Boca Raton: FL: CRC Press. Chapter 23, 369-390.

Sherman, R. & Bogdanov, P. 2011. The status of vermicomposting in North America: A rapidly developing technology. *Vermiculture Technology: Earthworms, Organic Waste, and Environmental Management*. Boca Raton: FL: CRC Press. Chapter 24, 391-408.

Sherman, R. & Appelhof, M. 2011. Small scale school and domestic vermicomposting systems. *Vermiculture Technology: Earthworms, Organic Waste, and Environmental Management*. Boca Raton: FL: CRC Press. Chapter 6, 67-78.

Sherman, R. 2007. Chain management issues and good housekeeping procedures to minimize waste. *Waste Management and Co-product Recovery in Food Processing*. Woodhead Publishing Ltd, Abington Cambridge, UK. Chapter 3, 39-58.

### **Publications (Peer Reviewed - 23)**

Sherman, R. 2017. How your business can cut costs by reducing waste. AG-473-10. NC State Cooperative Extension. 6 p.

Sherman, R. 2017. Worms can recycle your garbage. AG-473-18. NC State Cooperative Extension. 5 p.

Sherman, R. 2016. Raising earthworms successfully. AGW-641/E04-43936. NC State Cooperative Extension. 26 p.

Sherman, R. 2016. Community backyard composting programs can reduce waste and save

money. AG-599. NC State Cooperative Extension. 12 p.

Sherman, R. 2015. Composting in childcare center gardens. LF-007-07. NC State Cooperative Extension. 8 p.

Sherman, R. 2015. Vermicomposting in childcare center gardens. LF-007-08. NC State Cooperative Extension. 7 p.

Sherman, R. 2014. Backyard composting of yard, garden and food discards. AG-791. NC Cooperative Extension. 8 p.

Sherman, R. & Caldwell, E. 2013. Composting at NC residential and summer camps. AG-773. NC State Cooperative Extension. 4 p.

Sherman, R., Liverman, R., & Maxa, E. 2008. Vermicomposting leader's guide: A 5th grade school enrichment curriculum. E08-50326/4H-16-14PW. NC Cooperative Extension. 28 p.

Classen, J., Rice, M., & Sherman, R. Effects of vermicompost on field crops and rainfall runoff. *Compost Science and Utilization*, Vol. 15, No. 1 (Winter 2007): 34-39.

Sherman, R. 2003. Raising earthworms successfully. AGW-641/E04-43936. NC State Cooperative Extension. 26 p.

Sherman, R. 2000. Community backyard composting programs can reduce waste and save money. AG-599. NC State Cooperative Extension. 12 p.

Sherman, R. 1999. Large-scale organic materials composting. AG-593. NC State Cooperative Extension. 14 p.

Sherman, R. 1998. Before you recycle, choose to reuse. AG-473-27. NC State Cooperative Extension. 6 p.

Sherman, R. 1998. Deconstruction: Giving old buildings new lives. AG-473-25. NC State Cooperative Extension. 6 p.

Sherman, R. 1998. Food recovery & waste reduction: A guide for businesses & institutions. AG-473-26. NC State Cooperative Extension. 8 p.

Sherman, R. & Bambara, S. 1997. Controlling mite pests in earthworm beds. AGW-001. NC State Cooperative Extension. 2 p.

Sherman, R. 1997. Worm away your cafeteria food scraps! AG-551. NC State Cooperative Extension. 8 p.

Sherman, R. 1996. Reduce, reuse, and recycle: A step-by-step guide to help hotels and motels manage waste. AG-529. NC State Cooperative Extension. 43 p.

Sherman, R. 1994. Worms can recycle your garbage. AG-473-18. NC State Cooperative Extension. 6 p.

Sherman, R. 1995. Municipal solid waste landfill regulations in North Carolina. AG-473-16. NC State Cooperative Extension. 8 p.

Sherman, R. 1994. A low-cost plastic bottle and jug baler. AG-473-12. NC State Cooperative Extension. 6 p.

Sherman, R. 1994. Managing construction and demolition debris: A guide for builders, developers, and contractors. AG-473-19. NC State Cooperative Extension. 4 p.

Sherman, R. 1994. Organizing a community recycling program. AG-473-11. NC State Cooperative Extension. 4 p.

Sherman, R. 1994. Waste reduction and recycling for the lodging industry. AG-473-17. NC State Cooperative Extension. 6 p.

## **Manuals (4)**

- Sherman, R. 1995. Reducing commercial and industrial solid waste for community solid waste managers: Trainer's guide. Morgantown, VA: National Environmental Training Center for Small Communities. 100 p.
- Sherman, R. 1994 (revised 1995). Reducing commercial and industrial solid waste for community solid waste managers: Participant materials. Morgantown, VA: National Environmental Training Center for Small Communities. 180 p.
- Barger, B., Boerschig, S., Clarke, S., Graves, B., Prevo, V., Sherman, R., Trachtman, L. 1993. Source reduction: A guide for North Carolina local governments and solid waste/recycling professionals. 250 p.
- Albrecht, T., Mouw, S. & Sherman, R. 1993. Waste reduction programs for commercial and industrial solid waste. Raleigh: NC Office of Waste Reduction, NC-DEHNR. 153 p.

## **Proceedings, Invited Papers, and Conference Presentations (48)**

- Sherman, R. 2017. Vermicomposting for businesses, farms, and community gardens. Half-day workshop. US Composting Council Annual Conference. Los Angeles, CA.
- Sherman, R. 2016. School vermicomposting. BioCycle West Coast. San Diego, CA.
- Sherman, R. 2015. Vermicomposting at businesses and institutions. US Composting Council Annual Conference. Austin, TX.
- Sherman, R. 2015 On-farm vermicomposting. Carolina Farm Stewardship Association Annual Conference. Durham, NC.
- Sherman, R. 2014. The status of vermicomposting in the United States. 10th International Symposium on Earthworm Ecology. Athens, GA.
- Sherman, R. 2014. Food residuals diversion at businesses: On-site vermicomposting. Composting & Organics Recycling Conference at WasteExpo. Atlanta, GA.
- Sherman, R. 2014. Keynote address: Nurturing plants and soil with vermicompost. Kerr Lake Master Gardener Symposium, Henderson, NC.
- Sherman, R. 2013. Review of mid-to-large scale food residuals vermicomposting. US Composting Council 21st Annual Conference. Orlando, FL.
- Sherman, R. 2013. Vermicomposting food residuals at restaurants, businesses and institutions (half-day workshop). US Composting Council 21st Annual Conference. Orlando, FL.
- Sherman, R. 2013. Southeast food distributor initiates on-site vermicomposting. BioCycle 27th Annual West Coast Conference. San Diego, CA.
- Sherman, R. 2012. Vermicomposting at businesses and institutions. Southeast Food Waste Conference. Charlotte, NC.
- Sherman, R. 2011. On-site vermicomposting of food waste. BioCycle Annual Conference. San Diego, CA.
- Sherman, R. 2011. The status of vermicomposting in North America. US Composting Council 19th Annual Conference. Santa Clara, CA.
- Sherman, R. 2010. Vermicomposting in businesses and institutions in North America. 9th International Symposium on Earthworm Ecology. Xalapa, Mexico.
- Sherman, R. 2010. Vermicomposting in businesses and institutions. US Composting Council 18th Annual Conference. Orlando, FL.

- Arancon, N. & Sherman, R. 2009. Managing organics, enhancing agricultural productivity through vermiculture. BioCycle International Conference. San Diego, CA.
- Sherman, R., Rice, M., Campbell, C., Atkinson, A., Murray, B. Renkow, M., Williams, M. & Rudek, J. 2008. Pilot project for value-added products development from solid waste generated on swine farms. Poster presented at Soil and Water Conservation Society 2008 Annual Conference. Tucson, AZ.
- Sherman, R. 2007. Food residuals recovery at festivals and special events. US Composting Council 15th Annual Conference. Orlando, FL.
- Sherman, R. 2006. Effects of vermicompost on plant growth. Carolina Farm Stewardship Association Annual Conference. Spartanburg, SC.
- Sherman, R. 2006. Successful components of backyard composting. Carolinas Recycling Coalition Annual Conference. Raleigh, NC.
- Sherman, R. 2005. Benefits of vermicompost on soil and plant production. BioCycle Conference. Charlotte, NC.
- Sherman, R. 2005. Let it rot! Home-scale composting. Carolina Farm Stewardship Association Sustainable Agriculture Conference. Durham, NC.
- Young, M. & Sherman, R. 2004. Backyard composting half-day workshop. US Composting Council 12th Annual Conference. Las Vegas, NV.
- Sherman, R. 2004. Best management practices for food residuals. Carolina Recycling Association 14th Annual Conference. Charlotte, NC.
- Sherman, R. 2003. Containerized systems for on-site composting of commercial and institutional organic materials. National Recycling Coalition 22nd Annual Congress. Baltimore, MD.
- Sherman, R. 2003. Vermicomposting systems overview. BioCycle National Conference. Denver, CO.
- Sherman, R. 2003. Trends in managing organic wastes. Kansas 9th Annual Solid Waste Management Conference. Winfield, KS.
- Sherman, R. 2003. Commercial earthworm production. Kansas 9th Annual Solid Waste Management Conference. Winfield, KS.
- Sherman, R. 2002. Vermicomposting systems overview. BioCycle Northeast Conference. Portland, ME.
- Sherman-Huntoon, R. 2002. State-of-the-art food residuals composting programs. National Recycling Coalition. Seattle, WA.
- Sherman, R. 2002. Vermicomposting. NC Parks & Recreation Society Annual Conference. Greensboro, NC.
- Classen, J., Rice, M. & Sherman-Huntoon, R. 2001. Vermicomposting as an animal waste management component. International Symposium Addressing Animal Production and Environmental Issues. Raleigh, NC.
- Sherman-Huntoon, R. 2001. Food residuals trends in the Southeast. BioCycle Southeast Conference. Atlanta, GA.
- Sherman. 2001. Food waste composting. Sustainable University: Designing the Future, Raleigh, NC.
- Sherman-Huntoon, R. 2000. Medium-to-large scale vermicomposting systems. Y2K Composting

in the Southeast Conference. Charlottesville, VA.

Sherman-Huntoon, R. 2000. Medium-to-large scale vermicomposting systems. Vermillionium Conference. Kalamazoo, MI.

Sherman-Huntoon, R. 2000. Food scrap composting on the cutting edge. National Recycling Coalition. Charlotte, NC.

Sherman-Huntoon, R. 2000. On-site composting options. BioCycle Focus on Food Residuals Northeast Conference. Burlington, VT.

Sherman, R. 2000. How to conduct a solid waste audit. Carolina Recycling Association Annual Conference. Asheville, NC.

Sherman, R. 1999. North Carolina's used oil recycling success story: Project HERO. Carolina Recycling Association Annual Conference. Myrtle Beach, SC.

Sherman, R. 1999. Prisoners team up with worms to reduce waste. Carolina Recycling Association Annual Conference. Myrtle Beach, SC.

Sherman, R. 1999. Vermicomposting as an animal waste management component. NCSU Animal Waste Management Symposium. Cary, NC.

Sherman, R. 1998. North Carolina's used oil recycling success story: Project HERO. Carolina Recycling Association Annual Conference. Greensboro, NC.

Sherman, R. 1997. Small-to large-scale vermicomposting. Water & Environmental Programming Conference. Tulsa, OK.

Sherman, R. 1997. Waste reduction and recycling for the lodging industry. North Carolina Recycling Association's 7th Annual Conference & Exhibition. Raleigh, NC.

Sherman, R. 1993. A cooperative approach to solid waste management training. International Waste Management Conference, San Juan, Puerto Rico.

Sherman, R. 1992. Design and implementation of a recycling coordinator's training program. British Columbia Recycling Association Annual Conference. Vancouver, British Columbia.

Sherman, R. 1990. Institutional recycling at a major southern university. Sixth International Conference of Solid Waste Management and Secondary Materials. Philadelphia, PA.

#### **Trade Journal and Popular Press Articles (42)**

Sherman, R. Vermicomposting. Extension Gardener, NC State Cooperative Extension (Winter 2014).

Sherman, R. Turn kitchen scraps into plant food. Durham Master Gardener Blog (December 2013).

Sherman, R. Natural lawn and crop care with composts and teas. BioCycle, Vol. 54, No. 1 (January 2013): 44-46.

Sherman, R. Trading carbon credits for methane recovery. BioCycle, Vol. 47, No. 9 (September 2006): 55-58.

Sherman, R. Compost plays key role in green roof mixes. BioCycle, Vol. 46, No. 3 (March 2005): 29-34.

Sherman, R. Backyard composting developments. BioCycle, Vol. 46, No. 1 (January 2005): 45-47.

Sherman, R. Exploring options for organics collection. BioCycle, Vol. 45, No. 2 (February 2004): 46-47.



Sherman, R. Arresting corrosion in compost structures. *BioCycle*, Vol. 44, No. 11 (November 2003): 45-50.

Sherman, R. Markets for blends and bags of compost. *BioCycle*, Vol. 44, No. 8 (August 2003): 45-50.

Sherman, R. High volume restaurant makes composting leap. *BioCycle*, Vol. 44, No. 8 (August 2003): 28-32.

Sherman, R. Texas transportation department accelerates highway use of compost. *BioCycle*, Vol. 44, No. 7 (July 2003): 24-28.

Clayton, J & Sherman, R. Commercial food residuals initiative in North Carolina. *BioCycle*, Vol. 44, No. 6 (June 2003): 28-30.

Sherman, R. Versatility key to wood waste, C&D debris recovery. *BioCycle*, Vol. 44, No. 5 (May 2003): 30-34.

Sherman, R. Exploring superior systems to manage manure. *BioCycle*, Vol. 44, No. 2 (February 2003): 32-37.

Sherman, R. Storm brings massive wood waste to North Carolina. *BioCycle*, Vol. 44, No. 1 (January 2003): 30.

Sherman, R. The inside story of the greenest building complex in the U.S. *BioCycle*, Vol. 43, No. 12 (December 2002): 58-60.

Sherman, R. Humic acid as plant growth enhancer in vermicompost. *BioCycle*, Vol. 43, No. 12 (December 2002): 54.

Sherman, R. Vermicomposting systems overview. *BioCycle*, Vol. 43, No. 12 (December 2002): 53-56.

Sherman, R. The greenest building complex in the U.S. In *Business*, Vol. 24, No. 6 (November/December 2002): 22-24.

Sherman, R. Joining the front lines of vermicomposters. *BioCycle*, Vol. 43, No. 10 (October 2002): 36-39.

Sherman, R. From professor to worm farmer. In *Business*, Vol. 24, No. 4, (July/August 2002): 23-24.

Sherman, R. Composting for disaster response. *BioCycle*, Vol. 43, No. 5 (May 2002): 29-32.

Sherman-Huntoon, R. Food residuals composting in the Southeast. *BioCycle*, Vol. 42, No. 12 (December 2001): 27-29.

Sherman-Huntoon, R. Compost as an alternative to methyl bromide. *BioCycle*, Vol. 42, No. 9 (September 2001): 57-58.

Sherman-Huntoon, R. Research spotlight shines on organics recycling. *BioCycle*, Vol. 42, No. 9 (September 2001): 61-62.

Sherman-Huntoon, R. Wood waste study provides clues to recycling success. *BioCycle*, Vol. 42, No. 7 (July 2001): 68-72.

Sherman-Huntoon, R. Helping organic farmers be more successful. In *Business*, Vol. 23, No. 3 (Summer 2001): 34.

Sherman-Huntoon, R. Composting animal mortalities in North Carolina. *BioCycle*, Vol. 41, No. 12



(December 2000): 57-59.

Sherman-Huntoon, R. Latest developments in mid-to-large-scale vermicomposting. *BioCycle*, Vol.41, No. 11 (November 2000): 51-54.

Sherman, R. Ethanol production plans gain power in North Carolina. *BioCycle*, Vol. 41, No. 8 (August 2000): 71 - 72, 74.

Sherman-Huntoon, R. Keeping organics from getting out of hand. *Resource Recycling*, Vol. XIX, No. 5 (May 2000): 13-18.

Sherman, R. Composting and vermicomposting at correctional facilities. *BioCycle*, Vol. 40, No. 7 (July 1999): 35-37.

Sherman, R. Prison cuts garbage in half with recycling, compost. *The Chapel-Hill Herald* (July 25, 1998).

Sherman, R. Recycling and vermicomposting at North Carolina prisons. *BioCycle*, Vol. 39, No. 5 (May 1998): 78.

Sherman, R. Vermicomposting in North Carolina. *Casting Call*, Vol. 3, No. 1 (February 1998): 1-3.

Sherman, R. Worms bring composters out of the woodwork. *NCCORC News* (Winter 1998): 1, 4.

Sherman, R. Worms solve problems at North Carolina correctional facility. *The R Word*, Vol. 10, No. 1 (Spring 1998): 25.

Sherman, R. No longer down in the dumps...Deconstruction methods can save old building materials for reuse. *North Carolina Builder*, Vol. 27, No. 8 (September 1997): 39.

Hollyer, J. & Sherman, R., Eds. Back yard composting bulletin, S.C.O.R. Card. October 1993.

Sherman, R. NC course offers standardized training for recycling coordinators. *Recycling Times* (19 October 1993): 3.

Sherman, R. Rural solution for baling plastics. *BioCycle*, Vol. 34, No. 10 (October 1993): 63.

Hollyer, J. & Sherman, R., Eds. *The S.C.O.R. Card: Newsletter of the source-separated compost and organics recycling association*. May 1993; August 1993.

Sherman, R. A model recycling program: UNC takes action as landfill space shrinks and costs rise. *NACUBO Business Officer* (June 1991): 28-30.

### **Grants and Contracts (20 totaling \$1,366,070)**

Compost Training Facility. Sherman. NC State Sustainability Grant. 2015 - 2016. \$7,300.

NCSU Compost Training Facility. Sherman. Wake County Commercial Waste Reduction Grant. 2013. \$1,500.

Waste Management and Irrigation Water Management. Grabow, Shah, and Sherman. NC Cooperative Extension. 2011. \$1,669.

Pilot Project for Value-Added Product Development for Solid Waste Generated on Swine Farms. Co-Project Collaborator with Williams, Rice, Murray, and Renkow. USDA-NRCS Conservation Innovation Grant. 2006 - 2009. \$376,988.

Development of Marketable By-Products from Alternative Swine Waste Treatment Technologies. Co-Project Director with Humenik, Classen, Chen, and Zering. GoldenLeaf, Inc. 2004. \$200,000.

Comprehensive NPS Pollution Control Training for North Carolina. Co-Project Director with

Spooner, Hoover, Lindbo, Lombardo, McLaughlin, Shaffer, and Sheffield. Environmental Protection Agency. 2002 - 2005. \$315,000.

Vermicomposting Animal Manures. Sherman. CALS Animal Waste Management Programs. 2001 - 2003. \$10,000.

Comprehensive NPS Pollution Control Training for North Carolina. Co-Project Director with Spooner, Hoover, Lindbo, Lombardo, McLaughlin, Shaffer, and Sheffield. Environmental Protection Agency. 2001 - 2003. \$250,000.

Vermicomposting as an Animal Waste Management Component. Classen, Rice, & Sherman. Environmental Protection Agency. 1996 -2001. \$40,000.

Sustainability Education. Sherman. CEMP 18 funds, NC State Cooperative Extension. 1998 - 1999. \$400.

The North Carolina Storm Drain Stenciling Project and Project HERO. Hammett, Sherman, Mojonier, Robertson, & Jennings. Environmental Protection Agency. 1996 - 1999. \$61,730.

Solid Waste Management Education. Sherman. CEMP 18 Funds, NC State Cooperative Extension. 1997 - 1998. \$2,535.

Evaluating Residential and Community Water Quality and Waste Management Programs. Co-Project Director with NCCES State Major Program Team. NC State Cooperative Extension. 1996 - 1997. \$5,500.

Promoting and Measuring Program Impacts in Residential and Community Water and Waste Management. Co-Project Director with NCCES State Major Program Team. NC State Cooperative Extension. 1996 - 1997. \$5,000.

SMP-18 Homepage Maintenance and Updating. Co-Project Director with NCCES State Major Program Team. NC State Cooperative Extension. 1996 - 1997. \$2,500.

Self-Directed Learning Modules in Residential and Community Water and Waste Management. Co-Project Director with NCCES State Major Program Team. NC Cooperative Extension. 1995 - 1996. \$6,000.

Reducing Commercial and Industrial Solid Waste: A Curriculum for Community Solid Waste Managers. Sherman. National Environmental Training Center for Small Communities. 1994 - 1995. \$15,088.

Rowan County Solid Waste Management Plan. Rubin & Sherman. Rowan County. 1994 - 1995. \$48,860.

Used Oil Recycling Education and Collection Program. Hammett, Sherman, Roberson, & McCracken. Community Resource Development, NC State Cooperative Extension. 1994 - 1995. \$12,000.

Used Oil Recycling. Hammett, Sherman, & Roberson. Water Quality Initiative - Extension Service-U.S. Department of Agriculture. 1993. \$4,000.

### **Scholarly and Professional Honors**

Earthwise Award - Faculty. NC State University. 2008

Sustainability Award - Faculty. NC State University. 2004

Extension Education Award. NC Association of Cooperative Extension Specialists. 1997

Environmental Professional of the Year: Southeastern United States. Association of Energy and Environmental Engineers. 1991

Environmental Professional of the Year: North Carolina. Association of Energy and Environmental Engineers. 1991  
Presidential Scholar. Department of Geography. Western Michigan University. 1981  
Scholastic Achievement Award, Geography. Western Michigan University. 1980

### **Certificates and Program Completion**

Wake County Master Gardener Volunteer. 2016  
Durham County Master Gardener Volunteer Program. 2013  
Certificate of Technical Ability in Composting. Maine Compost School. 2005  
Basic, Advanced, and Leadership Programs. The Legacy Center. 2003 - 2004  
Certificate of Non-profit Management. Duke University. 2000  
Academic Leadership for Women. BRIDGES VII. 1999  
Compost Facility Operator Training. Louisiana State University Agricultural Center. 1998  
Recycling Coordinators Training Program. State of North Carolina. 1991

### **Professional Service and Membership in Associations**

North Carolina Composting Council (president; past vice president; co-founder) 2008 - present  
Green Industry Council (board of directors) 2015 – present  
NC Federation of Cooperative Extension Associations (president-elect 2006; president 2007; past-president 2008) 2006 - 2009  
NC Association of Cooperative Extension Specialists (board of directors; president-elect 2006-07; president 2007-08; past-president 2008-09), 2002 - 2014  
NC Composting and Organics Recycling Council (steering committee 1996 - 2000; 2005 - 2008)  
US Composting Council (board of directors 1993 - 1996), 1993 - present  
Source-separated Compost & Organics Recycling Assn. (steering committee), 1993  
Toastmasters International; NC State Campus Toastmasters, 1993  
Tarheel Association of Energy Engineers (vice president, environmental issues), 1991 - 1993  
Carolina Recycling Association, 1990 - 2007  
National Recycling Coalition, 1987 - 2005

### **Advisory Board Participation**

DriloBASE World Earthworm Database. Editorial Board, Section Ecosystem Services - Agriculture - Vermiculture 2014 - present  
Waste Reduction & Recycling Working Group for Campus Environmental Sustainability Team. 2009 - present  
BAE SPA Awards Committee (chair). 2009 - 2012  
Duke Lemur Center Board of Directors Education Committee. 2009 - 2010  
Eno River Trash-Free Committee (composting coordinator). 2005 – 2012.  
NC State University Dining Committee. 2007 - 2010  
BAE Distance Learning Committee. 2005 - 2009  
BAE Facilities Committee. 2004 - 2009  
NCSU CALS Diversity Management Team. 2002  
Soil and Water Environmental Technology Center. 1998 - 2004

NC State Long-Range Plan State Major Program Team: Residential & Community Water & Waste Management. 1997 - 2011

Woodbin II, Board of Directors. 1997 - 1998

Rural Council, NC Recycling Association (vice president). 1993 - 1996

Construction & Demolition Debris Task Force, TJCOG Regional Governments. 1993 - 1998

Water Quality/Waste Management Initiative Task Force, NC State. 1993 - 2003

NC Source Reduction Task Force. 1993 - 1996

Education Committee, North Carolina Recycling Association. 1991 - 1998

NC Recycling Coordinator Training Program Advisory Committee. 1991 - 1996

Program Committee, North Carolina Recycling Association. 1990 - 1993

Van Buren County Citizens for Recycling (co-founder). 1989 - 1990

Van Buren County Solid Waste Management Planning Committee (vice chair). 1988 - 1990

Alliance for Integrated Resource Management (co-founder). 1988 - 1990

Southwest Michigan Greens Solid Waste Task Force. 1988 - 1990

Kalamazoo County Forum Solid Waste Task Force. 1987 - 1990

### **Invited Guest Lectures and Advising**

Horticultural Science Department: Intro to Permaculture (HS432), 2002 – present, 2x/yr. (30)

Crop Science Department: Introduction to Agroecology (CS 230), 2007 – present (10)

Central Carolina Community College classes, 2015 (2)

Art & Architecture, The Ohio State University: Vermiculture Furniture, 2013

Entomology Department: Organic Agriculture (NET 591-791), 2011 – 2012 (2)

Soil Science Department Seminar Series, 2010

Horticulture Science Department: Small-Scale Landscape Design, 2002

Advise College of Textiles student on composting and vermicomposting cotton textile waste for Sustainability Fund Grant 2016 - 2017

Advised Senior Design students on developing composting unit for horse manure, Bio & Ag Engineering, 2015-16

Served on Masters Non-thesis (MCS) committee for Crop Science Department, 2013

Advised and hosted Fulbright Scholar from India, February 1 – May 31, 2010

Advised PhD candidate in Fiber & Polymer Science, College of Textiles for developing non-woven polypropylene and polyethylene fabrics that can be composted and vermicomposted, 2010

Advised Chemical Engineering Senior Design students on industrial composting, 2008

### **Consulting Activities**

Terra Nova Compost. Vermicomposting instructor for Community Compost Advocate Training Program. Atlanta, GA. June 2016

Institute for Local Self-Reliance. Soil Builder Master Composter Training. Vermicomposting instructor. 2014-15

Vermicomposting and composting technical assistance to a sustainability organization in California. 2014

Farmer-to-Farmer volunteer with Partners of the Americas: Guyana (South America) in 2013,

and Dominican Republic in 2014 and 2012. Taught farmers, greenhouse growers, and general public how to vermicompost, compost, and use vermicompost and teas.

Traveled to Argentina and Chile to provide technical assistance and training on composting and vermicomposting to sustainable farmers. November 2011

Contributing Editor. BioCycle Journal of Composting & Organics Recycling. Researched and wrote articles on a variety of topics including vermicomposting, ethanol production, storm debris recycling, animal mortalities composting, food residuals management, compost as an alternative to methyl bromide, construction and demolition debris management, compost markets, manure management alternatives, organics collection options, and arresting corrosion in composting structures. 2000 – 2007

Professional Recycling Organization of Pennsylvania. Delivered presentations on backyard composting at a statewide workshop. 2005

Researched and developed a report on the characteristics of horse manure compost for a private firm in Florida. 2003

Provided technical review of food waste composting guide and delivered a presentation. State of Colorado Governor's Office of Energy Management and Conservation. March 2002

Served on panel discussion "Vermiculture: Dissecting the Worm Industry." Governor's Office of Agricultural Policy, Frankfort, Kentucky. November 2001

Delivered one-day training course "Solid Waste Management Options for Local Officials." National Environmental Training Center for Small Communities, Morgantown, West Virginia. August 2001

Delivered two-day training course "Solid Waste Management Options for Local Officials." National Environmental Training Center for Small Communities, Morgantown, West Virginia. August 2000

Provided critical evaluation of two solid waste management curricula. National Environmental Training Center for Small Communities. 1999

Instructed "Commercial and Industrial Solid Waste Reduction Training for Community Solid Waste Managers" 1-1/2 day course. National Environmental Training Center for Small Communities, Albuquerque, New Mexico. 1998

Instructed "Commercial and Industrial Solid Waste Reduction Training" one day course. Morongo Band of Indians, Palm Springs, California. 1998

Developed The Composting Council's Speakers Bureau. University of Hawaii. 1993