

## CURRICULUM VITAE LESLIE R. COOPERBAND

### Education

Ph.D. in Soil Science; Ohio State University, Agronomy Department; 9/92.

M.S. in Ecology; Ohio State University, Columbus, OH; Zoology Department; 6/86.

B.A. in Biology; Barnard College, Columbia University, New York, NY; 5/82.

### Professional Experience

Extension Specialist, Sustainable Agriculture and Community Development. Department of Human and Community Development, University of Illinois, Urbana, IL Aug. 2004-present.

Assoc. Professor, Waste Management Specialist. Soil Science Dept., University of Wisconsin, Madison. Extension/research in beneficial land use of organic by-products. Sept. 97-Sept. 2004.

Visiting Extension Specialist, University of Illinois, Laboratory for Community and Economic Development (August 2003-July 2003).

Faculty Research Associate in Soil and Plant Ecology. University of Maryland, Wye Research and Education Center. Conducted soils, cropping systems and organic waste recycling research in sustainable agriculture systems of Eastern Shore of Maryland.

Coordinated soil quality research at Chesapeake Farms Sustainable Agriculture Project (DuPont Agricultural Products-sponsored project). 1/94-8/97.

Post-doctoral Research Associate in Forest Soils. University of Florida. Soil and Water Science Dept. Gainesville, FL. Conducted research in nutrient cycling in North-central Florida pine flatwoods-cypress swamp landscape and effects of tree harvesting on P dynamics. 1/93-1/94.

Research Scientist in Agroforestry. Centro Agronómico Tropical de Investigación y Enseñanza (Tropical Agriculture Center for Research and Training, CATIE). Turrialba, Costa Rica. Conducted soils and agroforestry research in Atlantic coastal region of Costa Rica. 6/87-7/91; collaborated with animal scientists on silvopastoral project.

### Teaching and Extension Experience

Advisor: 4 M.S. students and 1 Ph.D. student; served on graduate committees of several students in Soil Science, Plant Pathology and Inst. For Environmental Studies. Currently serve on graduate student committees at the University of Illinois.

Extension programs and guest lectures on developing local community food systems in IL. Numerous extension presentations in WI and IL on composting, compost quality, manure management, use of organic by-products in crop production, managing soil organic matter. 1997-present.

Instructor, Beginning Market Gardeners Course. Introduction to Soils. 1998-2004.

Instructor, Midwest Composting School. 1998-present.

Instructor, Washington State Organic Recycling Council's "Compost Facility Operator Training Course" Instructor, October, 2001-present.

Instructor, Composting Course, Univ. Nacional de Comahue, Bariloche Argentina, November 2002

Instructor, Composting Course, Universidad de Guadalajara, Guadalajara, Mexico, May, 2003.

Faculty member UW Development Studies Program, Center for Integrated Agricultural Systems Faculty Associate

Adjunct Faculty, Univ. of MD Graduate School; Participating Faculty member, Marine-Estuarine Environmental Science Program; Advisor for one M.S. graduate student. 1995-98.

Board member, Midwest Organic and Sustainable Agriculture (MOSA); organic certification organization; Jan. 2004-present.

Board member, W.K. Kellogg Foundation "Future Harvest" Project on Sustainable Agriculture. 1995-97.

Course Instructor: Topics in Sustainable Agriculture short course. Taught in Spanish, Universidad de los Andes, Bogota, Colombia. 1996-97.

Guest Lecturer: "Soil Nutrient Cycling in Silvopastoral Systems" in: Soils of Agroforestry Systems Graduate course. CATIE. Course taught in Spanish. 1991.

Course Instructor: Topics in Regenerative Agriculture. Designed and taught graduate-level special topics seminar on agronomic, economic, social and ethical issues related to sustainable agriculture. 1988. Ohio State University

## Grants and Awards

1. University of Wisconsin "Ira and Ineiva Reilly Baldwin Wisconsin Idea Endowment" Grant' "Center for Integrated Agricultural Systems-Growing Power Internship Program" (\$93,000 from 6/1/03-12/30/04).
2. Wisconsin Department of Agriculture, Trade and Consumer Protection, Agricultural Development and Diversification grant. "Developing Soil Amendment Products from Organic Residuals in Wisconsin's Fox River Valley Region" Leslie Cooperband, PI (\$58,300 from 7/1/01-6/30/03) and \$56,000 (Multiple donors).
3. Soil amendment product testing using organic residuals from the Fox River Valley Organic Recycling Project (FRVOR). L. Cooperband (PI) Univ. WI System Solid Waste Research Program. Funding account: 101; \$14,834; project duration: 12/02-7/03.
4. Organic By-Products Database Development. L. Cooperband (PI), P. Wells, S. Ventura. \$25,000 USEPA Region V. Project duration: 11/1/02-10/30/03; 5% commitment.
5. USDA-CSREES NRI "Microflora associated with organic-matter mediated foliar disease suppression" Dorith Rotenberg PI, Leslie Cooperband, Robert Goodman and Alex Stone (post doc grant for \$90,000 from 10/1/01-9/30/03).
6. University of Wisconsin System University-Industry Relations "Fox River Valley Integrated Waste Management Project" Leslie Cooperband, PI (\$29,800 from 7/1/00-6/3/01).
7. Wisconsin Fertilizer Research Council and WI Department of Natural Resources "Water availability of phosphorus in animal manures and fertilizers" (\$26,000 from 7/00-7/02)
8. USDA-CSREES NRI "Predicting bioavailable phosphorus release from animal manures." (\$96,000 from 10/1/99- 12/31/2001).
9. Federal Interdisciplinary Hatch "Vegetable production with raw or composted paper mill sludge: effects on soil quality in Wisconsin's Central Sands" Leslie Cooperband (PI), A. Stone, W. Stevenson, A. MacGuidwin, J. Staub, H. Harrison (\$138,000 from 10/1/99-9/30/2001; Extended 10/1/01-9/30/03 for \$80,000).

10. Federal Hatch “Effects of compost on soil chemical, physical, and biological properties in field nursery crop production” (\$50,000 from 10/98-12/2000).
11. University of Wisconsin System, Agriculture and Natural Resources Consortium for Cooperative Research Program “Feasibility of compost use in Wisconsin’s commercial strawberry industry” Brian Smith-PI (UW-River Falls), Leslie Cooperband, Gerald Nolte (UW-River Falls) (\$60K; 6/99-12/01)
12. UW System Solid Waste Research Program “Potato production with raw or composted paper mill sludge: Effects on soil chemical and physical properties and potato disease incidence” (\$30,000 from 7/1/98-6/30/99 and \$30,000 from 7/1/99-6/30/2000.)
13. USDA-CSREES NRI Biocontrol Program, “Effect of organic amendment quality on disease suppression in sandy soils” Alex Stone, PI (former post doc), L.R. Cooperband and R. Goodman, mentors (\$90K for two years 9/1/99-10/1/01)
14. Wisconsin Potato Vegetable Growers Association (\$12,000 annually for same potato paper mill sludge project; 1999-present)
15. Wisconsin Dept. of Natural Resources/Lumberjack Resource Conservation and Development Council, Inc. “Producing compost from wood residues and other organic byproducts in Wisconsin” (\$37,000; from 10/1/97-9/30/99).
16. University of Wisconsin, Graduate School Travel grant to present a paper at an international conference in Seville, Spain (May 2001).
17. USDA-SARE/ACE Northeast Region: Managing dairy waste using constructed wetlands and composting; \$130K; 1995-97.
18. W.K. Kellogg Foundation “Future Harvest” Project’s Poultry Initiative: “Soil nutrient (N and P) dynamics in grain cropping systems with fresh or composted poultry waste and cover crops.”(\$12K; 1995-96) and “Effects of different-aged poultry litter composts on soil N and P availability and corn production” (\$15K; 1996).
19. Chesapeake Research Consortium, “The relationship between soil test phosphorus level and the concentration of dissolved and potentially transportable phosphorus in field drainage water” (co-Principal Investigator with Drs. Frank Coale and Ray Weil, Univ. MD Agronomy Dept.); \$30K; 1994-96.

#### Peer-reviewed Publications

1. Rotenberg, D., L. Cooperband and A. Stone. 2004. Dynamic relationships between soil properties and foliar disease as affected by annual additions of organic amendment to a sandy-soil vegetable production system: (accepted November 23, 2004 for publication in *Soil Biology & Biochemistry*)
2. Vallad, G. E., L. Cooperband, and R. M. Goodman. 2004. Plant foliar disease suppression mediated by composted forms of paper mill residuals exhibits molecular features of induced resistance. *Physiol. Molec. Plant Pathol.* 63: 65-77.
3. Ebeling, A., L.R. Cooperband, and L.G. Bundy. 2003. Phosphorus availability to wheat from manures, biosolids, and an inorganic fertilizer. *Comm. Soil Sci. Plant Anal.* 34 (9&10):1347-1365.
4. Ebeling, A., L.R. Cooperband, and L.G. Bundy. 2003. Phosphorus effects on soil test phosphorus and forms of phosphorus in soil. *Comm. Soil Sci. Plant Anal.* 34:(13&14)1897-1917.
5. Gonzalez, R.F., and L.R. Cooperband. 2003. Compost Effects on Soil Chemical Properties and Field Nursery Production. *J. Environ. Hort.* 21(1):38-44

6. Cooperband, L.R., A.G. Stone, M.R. Fryda, and J.L. Ravet. 2003. Relating compost measures of stability and maturity to plant growth. *Compost Sci. Util.* 11(2):113-124.
7. Stone, A.G., G.E. Vallad, L.R. Cooperband, D. Rotenberg, H.R. Darby, R.V. James, W. Stevenson, and R.M. Goodman. 2003. Effect of organic amendments on soil-borne and foliar diseases in field-grown snap bean and cucumber. *Plant Disease* 87:1037-1042.
8. Cooperband, L.R., G.A. Bollero, and F. Coale. 2002. Effect of poultry litter and composts on soil nitrogen and phosphorus availability and corn production. *Nutr. Cycling in Agroecosystems* 62:185-194.
9. Gonzalez, R.F., and L.R. Cooperband. 2002. Compost effects on soil physical properties and woody ornamentals production. *Compost Science and Utilization* 10:226-237.
10. Natvig, E.E., S.C. Ingham, B.H. Ingham, L.R. Cooperband, and T.R. Roper. 2002. *Salmonella enterica* serovar Typhimurium and *Escheria coli* contamination of root and leaf vegetable grown in soils with incorporated bovine manure. *Appl. Env. Micro.* 68:2737-2744.
11. Foley, B.J., and L.R. Cooperband. 2002. Paper mill residuals and compost effects on soil physical properties in an irrigated vegetable rotation. *J. Env. Qual.* 31:2086-2095.
12. Cooperband, L.R. and L. Ward Good. 2002. Biogenic phosphate minerals in manure: implications for phosphorus loss to surface waters. *Env. Sci. Tech.* 36:5075-5082.
13. Cooperband, L.R., Bollero G. and Coale, F. 2001. Effect of poultry litter and composts on soil nitrogen and phosphorus availability and corn production. (in press *Nutrient Cycling in Agroecosystems*, Kluwer Acad. Publ.)
14. Cooperband, L.R. 2000. Managing fast growth and residuals in Fox River Valley. *Biocycle* 41(2): 26-27.
15. Cooperband, L.R. 2000. Composting: the art and science of organic waste conversion to a valuable soil resource. *Laboratory Medicine* 31: 283-289.
16. Cooperband, L.R. 2000. Sustainable land management of by-products (book chapter) pp. 215-235 In J. Powers et al. (ed.) *Land Application of Agricultural, Industrial and Municipal By-Products*. SSSA Book Series No. 6. Madison, WI.
17. Cooperband, L.R., P.M. Gale and N.B. Comerford. 1999. Refinement of the anion exchange membrane method for soluble phosphorus measurement. *Soil Sci. Soc. Am. J.* 63:58-64.
18. Cooperband, L.R. and J. Middleton 1996. Changes in chemical, physical and biological properties of cocomposted municipal solid waste (MSW) compost and poultry litter. *Compost Science and Utilization* 4: 24-34.
19. Cooperband, L.R. and T.J. Logan. 1994. Measuring in situ changes in labile soil P using anion exchange membranes. *Soil Sci. Soc. Am. J.* 58: 109-114.
20. Cooperband, L.R., R.E.J. Boerner and T.J. Logan. 1994. Humid tropical leguminous tree and pasture grass responsiveness to VA mycorrhizal infection. *Mycorrhiza* 4/5:233-239.

21. Cooperband, L.R. and T.J. Logan. 1993. Baseline soil characterization of a humid tropical silvopastoral system and changes in selected properties over time. *Turrialba* 43(1):22-36.
22. Logan, T.J. and L.R. Cooperband. 1987. Soil erosion on steeplands of the humid tropics and subtropics. In: D. Southgate and J. Disinger (eds.) *Proc. International Symposium on Sustainable Development of Natural Resources in the Third World*. Westview Press.
23. Cooperband, L. 1986. Soil Conservation in hillside agriculture: a case study of highland Venezuela, Peru and Guatemala. In: *Proc. First International Seminar on Soil and Water Conservation*. Santo Domingo, Dominican Republic.

#### Extension Publications

1. Cooperband, L.R. 2002. *The Art and Science of Composting*. A resource for farmers and compost producers. Published by the UW Center for Integrated Agricultural Systems.
2. Cooperband, L.R. 2002. *Building Soil Organic Matter with Organic Amendments*. A resource for farmers and compost producers. Published by the UW Center for Integrated Agricultural Systems.

#### Regional and National Committees

1. Co-chair of Standards and Practices Committee, US Composting Council
2. Member of NCR-59 "Committee on Soil Organic Matter and Soil Quality"
3. Member of SERA-17 "Minimizing Agricultural Phosphorus Losses for Protection of the Water Resource"

#### Professional and Technical Societies

American Society of Agronomy; Soil Science Society of America  
International Soil Science Society  
Ecological Society of America; International Association for Ecology  
Soil Ecology Society  
Consortium for Sustainable Agriculture Research and Education  
Founding member Phi Beta Delta (International Honor Society)  
International Association of Soil and Water Conservation

**Language Skills:** Fluent in Spanish, working knowledge of Portuguese and French.