

**MARCIA RUTH OSTROM**  
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## **EDUCATION**

UNIVERSITY OF WISCONSIN-MADISON Ph.D. Institute for Environmental Studies Land Resources Program	Madison, WI <b>1997</b>
CORNELL UNIVERSITY Master of Science, College of Agriculture and Life Sciences Rural Sociology Minor in Applied Ecology	Ithaca, NY <b>1991</b>
HARVARD UNIVERSITY A.B. Biology/Anthropology, <i>magna cum laude</i>	Cambridge, MA <b>1985</b>

## **EXPERIENCE**

<b>Director:</b> <i>Small Farms Program, Center for Sustaining Agriculture and Natural Resources</i> <b>and Associate Professor:</b> <i>Department of Community and Rural Sociology, Washington State University.</i> Develop and coordinate statewide, interdisciplinary, research and educational programs targeting the needs of small-scale and underserved agricultural producers. Develop and offer ongoing courses and workshops in sustainable small-scale production, alternative marketing, entrepreneurship, and food systems. Establish and implement small farms research and demonstration projects with stakeholder groups. Raise funds and administer budget. Supervise staff of two faculty members, three specialists, and several part-time instructors. Provide leadership and coordination for the WSU Small Farms Team and the WSU Center for Sustaining Agriculture and Natural Resources, as well as multiple project teams.	Wenatchee, WA <b>2000-present</b>
<b>Outreach Coordinator:</b> <i>Program on Agricultural Technology Studies, UW-Madison</i> Conducted research and outreach on the social, economic, and environmental characteristics of agriculture in Wisconsin. Developed educational materials and workshops for campus-based faculty, extension specialists, and county agents. Coordinated outreach to agricultural professionals, government staff and agencies, citizens' groups, and the general public to inform them about the social and environmental issues facing Wisconsin family farms.	Madison, WI <b>1997-2000</b>
<b>Researcher:</b> <i>Center for Integrated Agricultural Systems, UW-Madison</i> Co-authored successful SARE proposal to study Community Supported Agriculture (CSA) in Wisconsin and Minnesota as part of dissertation research. Designed and implemented research projects with CSA farmers as part of an interdisciplinary participatory research team. Surveyed over 600 consumer households. Facilitated focus groups and interviews with consumers and farmers from 24 different CSA farms.	Madison, WI <b>1994-1996</b>
<b>Graduate Project Assistant:</b> <i>Engineering Professional Development, UW-Madison</i> Helped develop and provide courses, training programs and workshops for international staff with United Nations Development Program. Conducted research and writing on agriculture, disaster management, food security, and environment. Coordinated distance learning program. Designed an international environmental education program for over 100,000 Motorola employees.	Madison, WI <b>1991-1996</b>

## **GRANTS**

Cultivating Success Agricultural Entrepreneurship and Business Planning Series, USDA Farm Service Agency (January 2009-September 2009). Principal Investigator. **\$15,000.**

Engines of the New Farm Economy: Assessing and Enhancing the Benefits of Farmers Markets, USDA National Research Initiative (January 1, 2009-December 31, 2011). Principal Investigator. **\$499,940.**

Designing Production Strategies for Stewardship and Profits on Fresh Market Organic Farms, USDA Integrated Organic Program (August 1, 2008-July 31, 2012). Co-Principal Investigator. **\$644,232.**

Life Cycle Assessment of Wheat Grown in Washington State, WSU BIOAg Grants Program (July 1, 2008-June 30, 2009). Principal Investigator. **\$30,000.**

Training and Connecting Agricultural Professionals through an Immersion Field Course, USDA Western SARE Program (August 1, 2008-July 31, 2010). Co-Principal Investigator. **\$13,738.**

Community Based Education for Sustainable Small Farms, USDA Risk Management Agency, Community Outreach Partnership (October 1, 2007-December 30, 2008). Principal Investigator. **\$125,000.**

Hmong Agricultural Outreach Program, King County Conservation District (June 1- December 31, 2008). Co-Principal Investigator. **\$78,000.**

Hmong Agricultural Outreach Program, King County Conservation District (June 1- December 31, 2007). Co-Principal Investigator. **\$70,000.**

Cultivating Success with Washington's Immigrant Farmers: Access and Opportunity for Latino and Hmong Producers, Socially Disadvantaged Farmers and Ranchers Competitive Grants Program, USDA CSREES(*September 15, 2006-Sept. 14, 2009*). Principal Investigator. **\$287,609.**

Cultivating Success on Small, Limited Resource and Women-Owned Farms in Washington and Idaho, USDA Risk Management Agency Outreach Partnership (*October 1, 2006-September 30, 2008*). Principal Investigator. **\$190,000.**

Whole Farm and Business Planning Tools for Integrated Risk Management on Latino, Hmong, and Native American Small Farms, USDA Risk Management Agency Research Partnership (*March 2006-June 2009*) Principal Investigator. **\$503,394.**

Cultivating Success on Small Farms in Washington and Idaho, USDA Risk Management Agency Education Partnership (*October 2005-September 2006*) Principal Investigator. **\$150,000.**

Enhancing Risk Management on Pacific Northwest Farms Through Innovative Farm Business Planning Instruction, Western Center for Risk Management Education (*May 2005-April 2006*). Principal Investigator. **\$39,728.**

Development and Delivery of Whole Farm and Business Planning Tools for Promoting Integrated Risk Management on Latino and Hmong Small Farms, Risk Management Agency Research and Development Partnership (*October 2004-February 2006*). Principal Investigator. **\$212,000.**

Cultivating Success on Small, Woman, and Minority-Owned Farms in Washington and Idaho, Risk Management Agency Education Partnership (*October 2004-September 2005*) Principal Investigator. **\$149,000.**

USDA, WSARE-Professional Development Grant, "Quillascut Farm School," (*March 2004-March 2006*). Co-Principal Investigator. **\$100,000.**

Washington Safe Food Initiative ARC Grant, "Profitably Integrating Soil, Nutrient, and Pest Management in Small Farm Vegetable Rotations West of the Cascades," (*July 1, 2004- June 30, 2006*). Co-Principal Investigator. **\$50,000.**

USDA, WSARE-Research and Education Grant, "Farming for the Future: Cultivating the Next Generation of Farmers," (*September 2003-September 2006*). Co-Principal Investigator. **\$145,000.**

Washington State Department of Agriculture, Small Farm and Direct Marketing Grant Program, "Farmers' Market Enhancement Project and Guidebook" (January 2003-March 2006). Principal Investigator. **\$27,695.**

USDA- SARE Professional Development Program CSANR mini grants (2003-2004). Principal Investigator. **\$4,000.**

EPA Region 10/American Farmland Trust, "Integrated Management Strategies for Control of the Carrot Rust Fly," (February 2003-February 2004). Co-principal Investigator. **\$50,000.**

EPA Region 10/American Farmland Trust, "Alternative Management Strategies for Carrot Rust Fly," (March 2002-December 2004). Principal Investigator. **\$49,992.**

Kellogg Food and Society Grant, "Sustaining Agriculture through Expanding Local Marketing Opportunities," Farming and the Environment/WSU (January 2002-December 2004). Principal Investigator. **\$90,000.**

USDA-Initiative for Future Agriculture and Food Systems Grant, "The Costs and Benefits of Using Organic Waste Streams in Small-Scale Agriculture," (September 2001-September 2006). Co-principal Investigator. **\$800,000.**

Chicona Endowment Funds, "Small Farms Research and Education" and "Farmers' Market Manager Training" grants (2002-2005). Principal Investigator. **\$14,950.**

Washington Department of Ecology 319 Grant, "Water Quality Education for Small Farmers," (January-December 2002). Principal Investigator. **\$40,000.**

Western Center for Risk Management Education, "Educational Program Development for Direct Marketing" (January-September 2002). Project Leader. **\$24,000.**

USDA-Initiative for Future Agriculture and Food Systems Grant, "Understanding, Evaluating and Improving Direct Marketing Systems for Small Farms" (September 2000-October 2004). Principal Investigator. **\$1,280,000.**

USDA-SARE Professional Development Program Grant, "National Dairy Community Study" (1999) Co-Principal Investigator. **\$9,000.**

USDA-SARE Grant, North Central Region, "Socioeconomic Influences on the Adoption of Sustainable Agriculture" (1995-1997). Project Leader and Writer. **\$50,000.**

## **HONORS**

Extension Award for Excellence (2007), Western Region, National Association of State Universities and Land Grant Colleges.

Big Cat Award, Annual WSU Extension award given to Small Farms Team for exemplary teamwork (2005)

Gold Award, Newsletter Category, Association of Natural Resource Extension Professionals, for Sustaining the Pacific Northwest, the WSU Small Farms/CSANR electronic newsletter, co-editor (2005)

Certificate of Appreciation, Ann Veneman, Secretary of Agriculture, for "Outstanding Contributions to Third National Small Farm Conference" (2003)

Featured Program, Sixth Annual Food and Agricultural Science Exhibition on Capitol Hill, NASULGC (March 2003)

Kellogg Fellow, Farming and the Environment Group, WSU Food and Society Project (2002-2004)

Foreign Language and Area Studies (FLAS) Fellowships, Cornell University (1989-1991)

Sage Graduate Fellowship, Cornell University (1988-89)

Graduated *Magna Cum Laude*, Harvard University (1985)

John Harvard Scholar (1984-85)

Radcliffe College Scholarships (1981-1985)

## **PROFESSIONAL DEVELOPMENT AND SERVICE**

Agriculture, Food, and Human Values Society (1997-Present)

Governing Council (2004-2008)

Membership and Program Committees (2004-2009)  
Chair, student paper competition (2005-2008)  
Program Co-Chair 2001 Annual Meeting  
Rural Sociological Society (1997-Present)  
Sociology of Agriculture Interest Group  
Extension Interest Group  
Reviewer, "Agriculture, Food, and Human Values Journal" (1997-Present)  
Institute for Rural Innovation and Stewardship, Steering Committee (2008-present)  
Working Group on Agriculture, Preparation/Adaptation to Climate Change, Washington  
Climate Advisory Team, Department of Ecology, Washington Climate Challenge (2007)  
Washington Sustainable Food and Farming Network, member (2002-Present)  
Western Sustainable Agriculture Working Group, member (2001-Present)  
Washington Tilth Association, member (2000-Present)  
Advisory Board Member, WSDA Small Farm and Direct Marketing Program (2000-2005)  
Committee Member, Sustainable Food Systems Initiative, Washington/Idaho Partnership 2020 (2001-2003)  
Program Planning Committee, Annual National Community Food Security Coalition Conference (2002)  
Program Planning Committee, Second and Fourth National Small Farms Conferences, USDA (2002, 2009)  
Poster Screening and Judging Team, Second and Third National Small Farms Conference, USDA (2002, 2006)  
Leadership Team, WSU Center for Sustaining Agriculture and Natural Resources (2000-Present)  
WSU Faculty Search Committees: 2001, 2002, 2004, 2005, 2006, 2007, 2008  
Sustainable Agriculture Advisory Group, University of Wisconsin (1997-2000)  
Board Member, Wisconsin Rural Development Center, Mt. Horeb, WI (1995-2000)

## **PUBLICATIONS**

### **A. Refereed Professional Articles**

Ostrom, Marcia (2009). "The Transformation of Food: Rethinking Social Movements from a Grassroots Agri-food System Perspective," *Social Problems*. (In progress).

Ostrom, Marcia (2006). "Everyday Meanings of Local Food: Views from Home and Field," *Journal of the Community Development Society*. 37(1).

Ostrom, Marcia and Douglas Jackson-Smith (2005) "Defining a Purpose: Agricultural Extension, Land Grant Research, and Diverse Farm Constituencies," *Journal of Sustainable Agriculture*. 27(3):57-76.

### **B. Books and Chapters in Books**

Ostrom, Marcia (2007), "The Contribution of Community Supported Agriculture (CSA) to Movements for Change in the Agri-Food System," *Remaking the North American Food System*, Clare Hinrichs and Tom Lyson (eds). University of Nebraska Press.

Ostrom, Marcia and Raymond Jussaume (2007), "Assessing the Significance of Direct Farmer-Consumer Linkages as a Change Strategy: Civic or Opportunistic?" in *Remaking the North American Food System*, Clare Hinrichs and Tom Lyson (eds). University of Nebraska Press.

Ostrom, Marcia. (1998) "Community Farm Coalitions." In Trauger Groh and Steven McFadden (Eds.) *Farms of Tomorrow Revisited: Community Supported Farms, Farm Supported Communities*. Chelsea Green, Inc. Second Edition. Pp. 87-102.

Ostrom, Marcia. (1997) *Toward a Community Supported Agriculture: A Case Study of Resistance and Change in the Modern Food System*. Doctoral Dissertation, the Institute for Environmental Studies, Land Resources Program, University of Wisconsin-Madison, Microfiche.

Hendrickson, John and Marcy Ostrom (1996) "Community Supported Agriculture: Origins and Growth." In *From Asparagus to Zucchini: A Guide to Farm-Fresh Seasonal Produce*, Madison Area Community Supported Agriculture Coalition (MACSAC), Suite 303, 4915 Monona Dr., Monona, WI 53716.

Ostrom, Marcia. (1991) *Obstacles to Alternative Pest Management: Poisons and Profits in the Developing World*. Master's Thesis, Cornell University, College of Agriculture and Life Sciences, Microfiche.

### C. Abstracts

Ostrom, Marcia (2008) *Untangling the Maze of Sustainable Food Choices: Eco-labels, regional labels, brand labels, local or organic?*" American Planning Association Annual Regional Conference, Spokane, WA. October 14, 2008. Ostrom M.

Ostrom, Marcia and Cathy Perillo (2007) "Field Analysis of Food System Sustainability," Annual Meetings of the Agriculture, Food and Human Values Society, Victoria B.C, June 1.

Ostrom, Marcia (2007) "Assessing Opportunities for Immigrant Farmer Engagement in Land Grant Programs," Panel on Results of NE-1012, a Four-Year, Multi-State USDA Regional Project," Annual Meetings of the Agriculture, Food and Human Values Society, Victoria B.C, June 1..

Ostrom, Marcia; Lev, Larry; Stephenson, Garry; Zenz, Leslie; DePhelps, Colette; and David Holland (2005) "Assessing Direct Marketing Options for Small Farms in the Pacific Northwest: Results of a Four-Year, Tri-state USDA Study," Annual Meetings of the Agriculture, Food and Human Values Society, Portland, OR, June 10.

Ostrom, Marcia and Cathy Perillo (2005) "Cultivating Success: A Sustainable Agriculture Education Program for Academic and Extension Students," Annual Meetings of the Agriculture, Food and Human Values Society, Portland, OR, June 10.

Perillo, Cathy and Marcy Ostrom (2004) "Cultivating Success: A Sustainable Agriculture Education Program," *Making the Bugs Work for You: Bio-Control in Organic Agriculture*, WSU/OSU Organic Research Symposium, Portland, Oregon, November 12, 2004.

Muehleisen, David and Marcy Ostrom (2004) "Alternative Management Strategies for Carrot Rustfly," *Making the Bugs Work for You: Bio-Control in Organic Agriculture*, WSU/OSU Organic Research Symposium, Portland, Oregon, November 12, 2004.

Ostrom, Marcia and Raymond Jussaume (2003) "Assessing the Potential of Direct Farmer-Consumer Linkages as a Change Strategy within the Washington Food System," Annual Meetings of the Rural Sociological Society, Montreal, Canada, July 28,2003.

Ostrom, Marcia and Raymond Jussaume (2003) "Washington Farmer and Consumer Responses to a Multi-Faceted Agri-food system," Annual Meeting of the Agriculture, Food and Human Values Society, Austin, Texas, June 15.

Ostrom, Marcia (2002) "Designing Extension and Research Programs for Small Farmers at Land Grant Universities." Annual Rural Sociological Society Meeting, Chicago, IL. August 17.

Ostrom, Marcia (2002) "Assessing the Contribution of Community Supported Agriculture to Movements for Change in the Agri-Food System," Annual Meeting of the Agriculture, Food, and Human Values Society, Chicago, June 14.

- Ostrom, Marcia. (2001) "Directing Land Grant Resources to a more Diverse Farm Constituency: Views from Farmers." Annual Rural Sociological Society Meeting, Albuquerque, NM. August 17.
- Ostrom, Marcia (2001) "Incorporating Commodity Producers into Models of Civic Agriculture." Annual Meeting of the Agriculture, Food, and Human Values Society. University of Minnesota, Minneapolis. June 10.
- Ostrom, Marcia. (2001) "Civic Agriculture: Evolving Mutually Supportive Economic Relationships among Farms and Communities. Annual Pacific Northwest Regional Economics Association Meeting, Victoria, B.C. May 17, 2001.
- Ostrom, Marcia (2000) "Gender, Culture, and the Construction of the Sustainable Farming Movement in the Upper Midwest," Rural Sociological Society Annual Meeting, Washington, D.C., August 16.
- Ostrom, Marcia. (1997) "Building Farm Coalitions: The Next Level of Community Supported Agriculture." Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society. June.

#### **D. Extension Bulletins and Technical Reports**

- Ostrom, Marcia and Zach Lyons (2008). "The Washington State Farmers Market Manual," Washington State Department of Agriculture Publication: AGR PUB 200-189.
- Collins, Douglas and Marcia Ostrom (2008) "Assessment of Agriculture in King County". King County Food and Fitness Initiative, W.K. Kellogg Foundation.
- Ostrom, Marcia (2005). "Small Farms: the Heart of Washington Agriculture," CSANR Technical Report Series 2005-01-06, Center for Sustaining Agriculture and Natural Resources, Washington State University.
- Ostrom, Marcia (2005). "Washington Farmer Views on Environmental Policy," CSANR Research Brief Series 2005-02-09, Center for Sustaining Agriculture and Natural Resources, Washington State University.
- Ostrom, Marcia (2005). "The Importance of Direct Markets for Washington Farmers," CSANR Research Brief Series 2005-03-08, Center for Sustaining Agriculture and Natural Resources, Washington State University.
- Ostrom, Marcia (2005). "Consumer Food Purchasing: Interest in Local and Direct Markets," CSANR Research Brief Series 2005-02-07, Center for Sustaining Agriculture and Natural Resources, Washington State University.
- Ostrom, Marcia; Hines Richard; and Rebecca Warren (2004) "The King County Food System Atlas," CSANR Technical Report Series, Center for Sustaining Agriculture and Natural Resources, Washington State University.
- Ostrom, Marcia; Garrett, Steven; Qazi, Joan; and Rich Hines (2004) "The Chelan County Food System Atlas," CSANR Technical Report Series, Washington State University.
- Vogt, JE; Jackson-Smith, D; Ostrom, M; and S. Lezberg (2001), "The Roles of Women on Wisconsin Dairy Farms at the Turn of the 21<sup>st</sup> Century," *PATS Report No. 10*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison, November.
- Ostrom, Marcia (2000) "The Use and Performance of Management Intensive Rotational Grazing among Wisconsin Dairy Farms in the 1990s." *PATS Research Report No.8*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison, August.

- Ostrom, Marcia (2000) "Management Intensive Rotational Grazing on Wisconsin Dairy Farms: the 1990s." *Wisconsin Family Farm Facts No. 9*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison, February.
- Ostrom, Marcia (2000) "Farmer Recommendations for Improving Wisconsin Dairy Extension." *PATS Research Report No.6*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison, March.
- Ostrom, Marcia; Jackson-Smith, Douglas; and Sunung Moon (2000) "Wisconsin Dairy Farmer Views on University Research and Extension Programs." *Wisconsin Family Farm Research Summary No.2*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison, January.
- Ostrom, Marcia and Frederick Buttel. (1999) "In Their Own Words: Wisconsin Farmers Talk about Dairying in the 1990s." *PATS Research Report No. 3*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison.
- Ostrom, Marcia. (1997) "Wisconsin Farmers' Views on the Benefits of and Costs of Livestock Expansion." *Wisconsin Family Farm Facts No. 7*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison.
- Ostrom, Marcia. (1997) "Manure Management on Wisconsin Livestock Farms." *Wisconsin Family Farm Facts No. 6*. Program on Agricultural Technology Studies, College of Agricultural and Life Sciences, University of Wisconsin-Madison.
- Ostrom, Marcia. (1996) "Community Supported Agriculture: Growing Food and Community." *Research Brief No.21*. Center for Integrated Agricultural Systems, UW-Madison College of Agricultural and Life Sciences.
- Ostrom, Marcia and John Hendrickson. (1996) "Challenges Facing CSA Growers." *Research Brief No.22*. Center for Integrated Agricultural Systems, UW-Madison College of Agricultural and Life Sciences.

## **E. Proceedings**

- Ostrom, Marcia (2003) "Washington State University Small Farms Program: Partnering to Support Family Farms, Land Stewardship, Healthy Food, and Healthy Communities", *Innovations in Food Systems Education Conference Proceedings*. September 24-26, Pullman, WA.
- Ostrom, Marcia; Theresa Beaver; and Cinda Williams (2002) "Cultivating Success in Sustainable Small Acreage Farming," in *Cultivating Biological Connections, Proceedings of the Northwest Symposium on Organic and Biologically Intensive Farming: Advances in Research and Education*. November 8, 2002.
- Ostrom, Marcia (2002) "Washington State University Small Farms Program: Partnering to Support Family Farms, Land Stewardship, Quality Food, and Healthy Communities", *Proceedings of the Third National Small Farm Conference*, USDA, September 17-20, Albuquerque, New Mexico.
- Ostrom, Marcia and Douglas Jackson-Smith (2001). "Directing Land Grant Resources to a More Diverse Farm Constituency: Views from Farmers," *Proceedings of the Sociology of Agriculture Section of the 64<sup>th</sup> Annual Rural Sociological Society Meeting*, Albuquerque, New Mexico, August 18.
- Ostrom, Marcia (1999) "Examining the Impacts of New Agricultural Technologies and Public Policies on Family Farms in Wisconsin," the Program on Agricultural Technology Studies, University of Wisconsin-Madison, *Proceedings of the Second National Small Farm Conference, USDA*, May 31, St. Louis, Missouri.

Ostrom, Marcia. (1996) "Support for Agricultural, Social and Economic Development." *Proceedings for the First International Emergency Settlement Conference: New Approaches to New Realities*. Disaster Management Center, College of Engineering, University of Wisconsin-Madison, April 15-19, 1996.

Ostrom, Marcia. (1996) "Phasing out Assistance." Executive summary prepared for the First International Emergency Settlement Conference Proceedings, *New Approaches to New Realities*. Disaster Management Center, College of Engineering, University of Wisconsin-Madison, April 15-19, 1996.

## **F. Popular Periodicals and Newsletters**

Steinbarger, D.; Miles, C.; Murray C; Ostrom, M.; and R. Simmons (eds) (2002-2008) *Sustaining the Pacific Northwest*, Quarterly Newsletter of the WSU Small Farms Team and Center for Sustaining Agriculture and Natural Resources.

Muehleisen, David; and Marcia Ostrom (2004). "The Conservation Security Program: Common Sense Assistance for all Producers," *The Good Fruit Grower*. January 15.

Muehleisen, David; and Marcia Ostrom (2004). "The Conservation Security Program: Common Sense to Help Farmers Work with and Protect the Environment," *Tilth Producers Quarterly: A Journal of Organic and Sustainable Agriculture*. Spring.

Ostrom, Marcia (2004) "Local and Direct Food Purchasing in Washington," *Sustaining the Pacific Northwest*, Quarterly Newsletter of the CSANR and the Small Farms Team, WSU. Volume 2, No. 2: 5.

Muehleisen, David; Bary, Andy; Cogger, Craig; Miles, Carol; and Marcia Ostrom (2003) "Managing Carrot Rust Fly: In search of alternatives to a tough customer." *Agrichemical and Environmental News*. Dec.

Ostrom, Marcia (2003) "The Importance of Direct Markets for Washington Farmers," *Sustaining the Pacific Northwest*, Quarterly Newsletter of the CSANR and the Small Farms Team, WSU. December.

Ostrom, Marcia (2002) "The New Harvest: A Delicious Idea," *Audubon Magazine*, December.

Ostrom, Marcia (2002) "New Small Farms Courses offered at WSU Puyallup," *Tilth Producers Quarterly: A Journal of Organic and Sustainable Agriculture*, Fall Edition.

Ostrom, Marcia (2002) "Large-Scale Study of Farming, the Environment, and Local Marketing Underway," *Tilth Producers Quarterly: A Journal of Organic and Sustainable Agriculture*, Spring Edition.

Ostrom, Marcia (2000) "CSARE Member News: People on the Move," *Inquiry in Action*, Consortium for Sustainable Agriculture Research and Education, No. 28, Autumn: 27.

Ostrom, Marcia (1996) "Community Supported Agriculture: Local Food for Local Eaters." *HOUR Community Newspaper*. Madison, WI: June.

## **G. Study Guides and Curricular Materials**

Ostrom, Marcia (editor). 2008 Washington State Farm Walk Manual Series. WSU Small Farms Team and Tilth Producers of Washington.

Ostrom, Marcia and David Muelheisen (2007). 2007 Washington State Farm Walk Manual Series. WSU Small Farms Team and Tilth Producers of Washington.

- Ostrom, Marcia and David Muelheisen (2006). 2006 Washington State Farm Walk Manual Series. WSU Small Farms Team and Tilth Producers of Washington.
- Ostrom, Marcia and David Muelheisen (2005). 2005 Washington State Farm Walk Manual Series. WSU Small Farms Team and Tilth Producers of Washington.
- Muehleisen, David; Ostrom, Marcia; and Don Stuart (2005). *Alternative Integrated Pest Management: Nontoxic Solutions for a Sustainable Puget Sound*, A Self-Help Guide for Small Farmers, Washington State University Small Farms Program and American Farmland Trust.
- Ostrom, Marcia and David Muehleisen. (2004). *Learning on the Land*. Handbook on organic farming systems, designed for use with 2004 summer farm walk series, Small Farms Program, Washington Sate University and Tilth Producers of Washington.
- Ostrom, Marcia (2003). *Sustainable Small-Acreage Farming Notebook*. Study guide and resource manual developed for Sustainable Small-acreage Farming Course, Soils 404, Cultivating Success Course Series.
- Ostrom, Marcia. (1994) *Food Security and Famine*. A study guide prepared for the UW-Disaster Management Center, University of Wisconsin-Madison.
- Ostrom, Marcia. (1992) "Stratospheric Ozone." In *Protecting Our Environment*, course textbook, Marcia Ostrom and Chris Reitz (eds), Motorola University Publication SAF 352.
- Ostrom, Marcia. (1992) "Ground-Level Ozone." In *Protecting Our Environment*, course textbook, Marcia Ostrom and Chris Reitz (eds), Motorola University Publication SAF 352.

#### **H. Brochures and Outreach Materials**

- Ostrom, Marcia and Richard Hines (2005) "WSU Small Farms Team Poster," April.
- Ostrom, Marcia and Richard Hines (2005) "WSU Small Farms Team Brochure" January.
- Ostrom, Marcia and Richard Hines (2003) "Northwest Direct: Improving Markets for Small Farms," Project Brochure, January.
- Ostrom, Marcia and Richard Hines (2003) "Cultivating Success: Courses in Sustainable Small Acreage Farming," brochure, February.
- Ostrom, Marcia and Richard Hines (2003) "Team-Based Research with Farmers," brochure, February.
- Ostrom, Marcia and Sylvia Kantor (2002) "CSA Farms: Agriculture for Communities," November.
- Ostrom, Marcia and Sylvia Kantor (2002) "Washington State University Small Farms Program," June.

#### **H. Unpublished Research Reports**

- Ostrom, Marcia and David Muehleisen (2003) "Improving Soil and Water Quality in Western Washington: Views from Farmer Listening Sessions," funded by grant from Washington State Department of Ecology.
- Ostrom, Marcia and Ray Jussaume (2003). "Report to Respondents: Summary Results of 2002 Washington Farmer Poll," from statewide survey of 3,021 producers, "Agriculture in Washington State," Washington State University and University of Washington.

#### **I. Web Pages Developed**

“The Small Farm Connection,” the official website of the WSU Small Farms Team, [www.wsu.smallfarms.edu](http://www.wsu.smallfarms.edu), designed and maintained jointly by Small Farms Team web committee and program staff. Established in 2002.

Ostrom, Marcia; Corum, Vance; DePhelps, Colette; Lev, Larry; Stephenson, Gary; Williams, Cinda; and Leslie Zenz. (2004) “Northwest Direct: Understanding and Improving Marketing Opportunities for Small Farms,” USDA Initiative for Future Agriculture and Food Systems research project, <http://www.nwd.wsu.edu>

Jussaume, Raymond and Marcia Ostrom (2003). “Agriculture in Washington State,” results of 2002 farmer survey, Washington State University and the University of Washington, <http://www.crs.wsu.edu/outreach/rj/agsurvey/index.html>

Jussaume, Raymond and Marcia Ostrom (2003). “Food Consumption Attitudes and Behaviors,” results of 2002 consumer survey, Washington State University and the University of Washington, <http://www.crs.wsu.edu/outreach/rj/ag-consumer/index.html>

### **MEDIA CITATIONS AND INTERVIEWS**

Radio KOHO (2007), “Farm to Table: Creating Regional Food Economies,” Live Radio Interview with Clint Strand, 8:30 AM, March 8.

Capital Press (2007), “Agricultural Entrepreneurship Program offered through WSU,” January 10.

Radio KDNA (2005-2007), Monthly Educational series for Latino Farmers by Dr. Malaquias Flores, Small Farms Program (Supervisor).

Seattle Post-Intelligencer (2004) “Food from Neighbors,” editorial column based on Ostrom interview on WSU Consumer Survey, Tuesday, September 14, 2004.

Capital Press (2003) “WSU Debuts First Small Farms Field Day,” Ron Hess, July 20.

Auburn Community Radio Program (2003) “The Future of Farming in Puget Sound,” Pierce County Executive John Ladenburg and Ostrom were interviewed about the future of agriculture in the urban fringe, Paul Nelson, 11 radio stations, one hour, February 13.

Seattle Times Magazine (2002), “Cultivating a Future: Bucking convention to grow a farming culture,” Linda Mapes, September 15, pg. 17.

The Puyallup Herald (2002) “WSU Researches for Pesticide Alternatives for Washington Farmers,” Sarah Baker, October 24: 13B.

The Puyallup Herald (2002) “Making Farming Work Today: Changes mark farming in the valley – WSU helps bridge the gap,” Anna King, August 22, 8A.

The News Tribune (2002) “Cultivating Markets Down on the Farm: Pilot WSU program helps small farmers set up direct retail operations,” Rob Tucker, July 17, pg. B3.

Capital Press (2002) “WSU Program Teaches Creativity in Ag: Changing markets require different ways of thinking,” Cookson Beecher, July 12, pg. 22.

KPLU Public Radio (2002) “Small Farm School,” Public NewsRoom Article, Jennifer Niessen, Seattle, July 1.

Capital Press (2002) “WSU Seeks Solutions for Farms and Environment,” Pullman, May 10.

Capital Press (2002) “Farmers Asked for Input on Status of Washington Agriculture,” Puyallup, April 5.

Lewiston Review (2002) “Farmers Asked to Weigh in on Issues Facing Washington Agriculture,” April 3.

- KPQ Radio (2002) "Farmers Asked to Weigh in on Issues Facing Washington Agriculture," Live interview with Steve Hair, Wenatchee, April 5, 8:35AM.
- Northwest Agricultural Radio Network (2002), "Line on Agriculture Program," taped interview on statewide farmer survey with Gary Kloss, April 3, 2002.
- The Tilth Producers Quarterly (2002) "WSU Small Farms Program Marks its First Year," Bonnie Rice, Winter, Volume 10, Issue 1: 4.
- Seattle Times (2001) "San Juan Farmers' Plan is a Cut Above," Lynda Mapes, November 26.
- Capital Press (2001) "Northwest Direct: Improving Markets for Small Farms," Small Acreage Section, November 1.
- Capital Press (2001) "WSU Receives Organic Certification," Cookson Beecher, July 13.
- The Manitoba Co-operator (2001) "Eco-marketing a Way to Link Farmers with Consumers," Lorraine Stevenson, July 12.

### **NATIONAL PRESENTATIONS**

- Fiese, Chris and Marcia Ostrom (2007). "Sustainable Agriculture and Small Farms Programs at WSU," Kellogg National Meeting for Sustainable Agriculture Center Directors, University of New Hampshire, Durham, New Hampshire, November 7-9.
- Ostrom, Marcia; Cha, Bee; and Malaquias Flores (2007), "The WSU Small Farms Program: Outreach to Immigrant Farmers," National Extension Diversity Conference, Seattle, WA. April 27.
- Ostrom, Marcia (2006) "Building Access to Land Grant Research and Extension Programs for Socially Disadvantaged and Underserved Producers," Directors Meeting, Western Region Small Farm Programs, USDA National Small Farms Program, Davis, CA. May.16
- Ostrom, Marcia and Malaquias Flores (2005) "Designing Successful Whole Farm Educational Programs for Immigrant Farmer Audiences," Fourth Annual National Small Farms Conference, USDA Small Farms Program, Greensboro, N.C. October 14.
- Ostrom, Marcia and Cathy Perillo (2005) "Cultivating Success: A Sustainable Agriculture Education Program for Academic and Extension Students," Annual Meetings of the Agriculture, Food and Human Values Society, Portland, OR, June 10.
- Ostrom, Marcia; Lev, Larry; Stephenson, Garry; Zenz, Leslie; DePhelps, Colette; and David Holland (2005) "Assessing Direct Marketing Options for Small Farms in the Pacific Northwest: Results of a Four-Year, Tri-state USDA Study," Annual Meetings of the Agriculture, Food and Human Values Society, Portland, OR, June 10.
- Ostrom, Marcia (2004) "Emerging Economic and Environmental Models for Revitalizing Farms and Communities," Annual Meetings of the Pacific Northwest Regional Economics Association, Tacoma, WA, May 19.
- Ostrom, Marcia and Raymond Jussaume (2003) "Assessing the Potential of Direct Farmer-Consumer Linkages as a Change Strategy within the Washington Food System," Annual Meetings of the Rural Sociological Society, Montreal, Canada, July 28,2003.

- Ostrom, Marcia and Raymond Jussaume (2003) "Washington Farmer and Consumer Responses to a Multi-Faceted Agri-food system," Annual Meeting of the Agriculture, Food and Human Values Society, Austin, Texas, June 15.
- Ostrom, Marcia (2002) "Designing Extension and Research Programs for Small Farmers at Land Grant Universities." Annual Rural Sociological Society Meeting, Chicago, IL. August 17.
- Ostrom, Marcia (2002) "Globalization and its Impact on American Agriculture: A Case Study of the Northwest" National Community Food Security Coalition Sixth Annual Conference: Eating Locally, Thinking Globally, Seattle Center, Seattle, October 7.
- Ostrom, Marcia (2002) "Assessing the Contribution of Community Supported Agriculture to Movements for Change in the Agri-Food System," Annual Meeting of the Agriculture, Food, and Human Values Society, Chicago, June 14.
- Ostrom, Marcia. (2001) "Directing Land Grant Resources to a more Diverse Farm Constituency: Views from Farmers." Annual Rural Sociological Society Meeting, Albuquerque, NM. August 17.
- Ostrom, Marcia (2001) "Incorporating Commodity Producers into Models of Civic Agriculture." Annual Meeting of the Agriculture, Food, and Human Values Society. University of Minnesota, Minneapolis. June 10.
- Ostrom, Marcia. (2001) "Civic Agriculture: Evolving Mutually Supportive Economic Relationships among Farms and Communities. Annual Pacific Northwest Regional Economics Association Meeting, Victoria, B.C. May 17, 2001.
- Ostrom, Marcia (2000) "Gender, Culture, and the Construction of the Sustainable Farming Movement in the Upper Midwest," Rural Sociological Society Annual Meeting, Washington, D.C., August 16.
- Ostrom, Marcia. (1997) "Building Farm Coalitions: The Next Level of Community Supported Agriculture." Annual Meeting of the Agriculture, Food, and Human Values Society and the Association for the Study of Food and Society. June.

### **STATE AND LOCAL PRESENTATIONS**

- "Characteristics of Washington Small Farms," Presentation to EPA Region 10 Agriculture 101 Study Tour. September 19, 2006.
- "The Next Generation of Family Farmers in Washington," Graduation address for Latino Cultivating Success students in Omak, WA, March 29, 2006.
- "Current Marketing Trends and Emerging Opportunities in Chelan County," Opening Address for Chelan Food System Forum, Sponsored by Kellogg and Farming and the Environment, Wenatchee, December 3, 2004.
- "Current Trends and Emerging Marketing Opportunities in Skagit County," Skagit County Food System Forum, Sponsored by Kellogg and Farming and the Environment, Mt. Vernon, WA, November 8, 2004.
- "Emerging Economic and Environmental Models for Revitalizing Farms and Communities," workshop taught as part of a continuing series of seminars on the environment offered by the Mountaineers, Seattle, WA, March 22, 2004.
- "A Legacy of Action: Building a Future for Agriculture in King County," Opening address for *Growing a Regional Food Economy*, a forum organized for policy makers, agency personnel and leaders of non-profit organizations in King County, WA, January 21, 2004.
- "Current and Future Trends in Direct Marketing," Western Washington Horticultural Association Annual Meeting, January 9, 2004.

- “Farmer and Consumer Perspectives on Local Market Development in Washington,” Featured dinner speaker at Washington Farming and the Environment Banquet, Washington State Family Farm Summit, Wenatchee, October 13, 2003.
- “Successful Small-Scale Farming Models in Washington,” Presentation for Washington Farm Service Agency Loan Officers, Spokane, September 10, 2003.
- “Current Research by the WSU Small Farms Program,” Presentation for the Western Rural Development Center’s annual meeting, Pullman, September 10, 2003.
- “The Increasing Importance of Direct Marketing for Small and Mid-sized Farm Viability,” Response to Fred Kirschenman Presentation, event organized by WSU and the Washington Sustainable Food and Farming Network, Ballard, WA, June 6, 2003.
- “Farmer Views on Land Use Planning Policy,” Western Washington Agricultural Summit, a forum for county government officials and planners, Puyallup, WA, November 12, 2002.
- “Building Consumer Support for Local Agriculture: What is Known about Purchasing Preferences,” Washington Tilth Producers Conference, Yakima, WA, November 10, 2002.
- “Building Strong Programs for Small Farms and Sustainable Agriculture at WSU,” Washington Tilth Producers Conference, Yakima, WA, November 9, 2002
- “Sustaining Washington Agriculture and the Environment through Expanding Local Markets,” Annual meeting of the Farming and the Environment Group, Ellensburg, WA, October 28, 2002.
- “Farm Direct Marketing: Increasing Farmer Profit while Building Community Relationships,” WSU Extension Faculty Conference, October 16, 2002.
- “An Overview of the WSU Small Farms Program,” WSU Provost Tour, Puyallup, October 8, 2002.
- “An Overview of Current Trends in Washington and U.S. Agriculture,” Keynote presentation for citywide forum entitled “Local Living Economies and the Family Farm” organized by Antioch University, Seattle, June 19, 2002
- “Planning Programs for Small Farms at WSU,” WSU Food and Farm Connections Team Annual Retreat, Seabeck, WA, May 7, 2002.
- “Operating a Successful CSA Farm,” Food and Farm Connections Team Workshop for producers, Vancouver, WA, February 14, 2002.
- “Reorganizing the Marketplace: Building a Future for Small-Scale Agriculture,” Keynote Presentation for Small Farms Conference held in Centralia, WA, March 10, 2001.
- “Generating Institutional Support for Small-scale and Urban Farming,” Featured speaker at annual meeting of the Friends of Family Farmers, Puyallup, February 11, 2002.
- “The Role of Urban Citizens in Building Community Based Food Systems,” Featured speaker, Seattle Tilth Dinner Program: Is it Soup Yet? Ballard High School, Ballard, January 16, 2002.
- “Farmland Preservation in the Puget Sound Region,” Presentation to 1000 Friends of Washington and Pierce County Agricultural Commission Members, Puyallup, WA, December 7, 2001.

- "The New Agriculture Depends on You," Keynote Presentation for Community-Based Livestock Processing Conference, Stevens County Extension, Colville, WA, December 1, 2001.
- "Making CSA Work: How Successful CSA Farms Get and Keep their Members," Washington Tilth Producers Annual Conference, Evergreen College, Olympia, WA, November 11, 2001.
- "Creating Strong Programs for Small Farms and Sustainable Agriculture at WSU," Washington Tilth Producers Annual Conference, Evergreen College, Olympia, WA, November 11, 2001.
- "Developing Local Solutions to Meat Processing and Marketing Issues," Plenary session for "Growing for Profit," a WSU-Extension conference held in Spokane, WA, May 12, 2001.
- "Water Quality Education for Small Farmers," Water Quality Management Team, WSU and Department of Ecology, Puyallup, WA, May 1, 2001.
- "Small Farms Programming at WSU," Washington Sustainable Food and Farming Network, Pike Place Market, Seattle, WA, April 25, 2001.
- "Building Support Systems for Community Supported Agriculture," King County Farmers Group, Mercer Island Community Center, Mercer Island, WA, March 7, 2001.
- "Introduction to the Washington State University Small Farms Program," Methow Food Alliance, Partnership for a Sustainable Methow, Twisp, WA, February 22, 2001.
- "Successful CSA Farming: Getting and Keeping Consumer Members," Direct Marketing Conference, Sequim, WA, February 16, 2001.
- "Overview of WSU Small Farms Program," King County Agricultural Commission, Mercer Island, WA, February 8, 2001.
- "Designing the WSU Small Farms Program to Meet Farmer Needs," Plenary Session at Washington Tilth Producers Annual Conference, Chelan, WA, November 11, 2000.
- "Establishing the WSU Small Farms Program: Goals and Vision," Washington Sustainable Farming Network Annual Meeting, University Place, Seattle, WA, September 26, 2000.

### **MAJOR EVENTS ORGANIZED**

- "Washington State Farm Walk Series," organized and co-sponsored annually with Tilth Producers of Washington. A producer-to-producer learning series of 10 farm walks per year held on sustainable and organic farms in representative regions of the state. 2005-2007.
- "Central Washington Farm to Table Regional Trade Meeting," organized and co-sponsored with Heifer International, Pacific Northwest Program, WSDA Small Farm and Direct Marketing Program, and EAT Local. Leavenworth, WA, March 19, 2007. Attended by 115 agricultural producers, purchasers, and agricultural professionals.
- "Washington State Farmers Market Association Conference," organized and co-sponsored with the Washington State Farmers' Market Association and the WSDA Small Farm and Direct Marketing Program, Ellensburg, WA, January, 2007.
- "Cultivating Success: Train-the-trainer workshop," daylong instructor training for Sustainable Small Farming Classes, put on by the Cultivating Success Team of WSU Small Farms, UI, and Rural Roots, Ellensburg, WA, June 13, 2007.

- “Washington State Farmers Market Association Conference,” organized and co-sponsored with the Washington State Farmers’ Market Association and the WSDA Small Farm and Direct Marketing Program, WSU Puyallup, WSU-Puyallup, February, 2006.
- “Cultivating Success: Train-the-trainer workshop,” daylong instructor training for Sustainable Small Farming Classes, put on by the Cultivating Success Team of WSU Small Farms, UI, and Rural Roots, Ellensburg, WA, June 15, 2005.
- “Water Management and Drought Preparation: A Listening Session and Workshop for Latino farmers, organized by the Small Farms Program, El Ranchito Restaurant, Zillah, WA, May 26, 2005.
- “The New Food Entrepreneur: Value-Added Processing for Farm Profitability and Sustainable Food Systems,” conference organized by Small Farms Team and attended by over 300 state and national participants, Green River Community College, Auburn, WA, April 1-2, 2005.
- “Washington State Farmers Market Association Conference,” organized and co-sponsored with the Washington State Farmers’ Market Association and the WSDA Small Farm and Direct Marketing Program, WSU Puyallup, WSU-Puyallup, March 5-6, 2005.
- “Chelan County Food System Forum,” A food and agricultural forum for policy makers, agency personnel and leaders of non-profit organizations in Wenatchee, WA, December 4, 2004.
- “Skagit County Food System Forum,” A food and agricultural forum for policy makers, agency personnel, institutional food buyers, and leaders of non-profit organizations in Skagit County, WA, November 8, 2004.
- “Sustainable Small Acreage Farming From Farm to Table,” a weeklong immersion training program for extension faculty and other agricultural professionals at Quillisascut Farm in Stevens County sponsored by WSARE, Stevens County Extension, and Small Farms Program, October 11-15, 2004.
- “The Permanent Farmers’ Market,” A workshop for farmers’ market managers and board members, community leaders and local government officials on using markets for regional economic development, Friday Harbor, Washington July 8, 2004.
- “Learning on the Land,” a series of eight farm walks for Westside growers on organic pest management, co-sponsored by the Small Farms Team and Washington Tilth Producers, June 14 - August 10, 2004.
- “Washington State Farmers Market Association Conference,” organized and co-sponsored with the Washington State Farmers’ Market Association and the WSDA Small Farm and Direct Marketing Program, WSU Puyallup, WSU-Puyallup, March 1-2, 2004.
- “Growing a Regional Food Economy,” A food and agricultural forum for policy makers, agency personnel and leaders of non-profit organizations in King County, WA, January 21, 2004.
- “Washington State Family Farm Summit,” Institute for Rural Innovation and Stewardship at Wenatchee Valley College, October 13-14, 2003. Organizing and planning committee.
- “Small Farms Field Day,” WSU-Puyallup, July 16, 2003.
- “Statewide Small Farms Meeting,” Ellensburg, WA, May 7, 2003.
- “Small-Scale Poultry Production in Washington,” A presentation and roundtable discussion on current poultry processing and marketing regulations and problems encountered by producers, Everett, WA, March 14, 2003.
- “Farmers’ Market Managers and Board Members Workshop,” WSU-Puyallup, March 8-9, 2003.
- “2003 Farmers’ Market Vendor Workshop: The Magic of Bounty,” WSU-Puyallup, February 15.
- “National Community Food Security Coalition Annual Conference: Eating Locally, Thinking Globally,” co-sponsored and served on planning committee, Seattle Center, October 4-7, 2002.

“Train-the-Trainer Workshop for NxLevel Tilling the Soil Course,” two-day, multi-state training program for extension agents and small business advisors on teaching agricultural entrepreneurship, held in collaboration with the Washington Small Business Development Center and NxLevel, Ellensburg, WA, June 24-25, 2002.

“Operating a Successful Farmers’ Market,” day-long workshop for extension agents and farmers’ market managers on market organization, promotion, and management, Ellensburg, WA, June 10, 2002.

“Farm-City Forum,” workshop for invited government officials to become familiar with the issues facing agriculture in Pierce County, organized with American Farmland Trust, Pierce County Extension, and Friends of Family Farmers, February 25, 2002, Puyallup, WA.

“Farmer Focus Groups on Soil Fertility and Water Quality,” three focus groups held with western Washington producers to assess needs related to soil fertility and water quality management, February 6, 14, and 19, 2002.

“Future of the Dairy Farm: Strategies for Profitability,” one-day workshop organized with Washington Farmlink and Snohomish County Extension, Sylvania, WA, January 23, 2002.

“WSU Organic Farming Research and Extension Meeting,” day-long planning workshop for WSU faculty and staff organized through the WSU Center for Sustaining Agriculture and Natural Resources, Ellensburg, WA, October 23, 2001.

“Beginning Farmer Workshop,” organized with Washington Farmlink and King County, WSU Puyallup, Puyallup, WA, October 16, 2001.

“Washington State Farmers Market Association Conference,” organized and co-sponsored with the Washington State Farmers’ Market Association and the WSDA Small Farm and Direct Marketing Program, Pike Place Market, Seattle, WA, February 26-27, 2001.

### **UNIVERSITY COURSES TAUGHT AND SUPERVISED**

“*Agricultural Entrepreneurship*,” Soils 403, WSU Puyallup, taught spring semester, 2002, 2003, 2004. Supervised course sites in Jefferson County, Chelan County, Clallam County, King County, Kitsap County, Mason County, Okanogan County, Skagit County, Spokane County, Franklin County, and Whatcom County (2005, 2006). Supervised adaptation and teaching for Hmong farmers in King County (2005) and Latino farmers in Yakima County (2005).

“*Sustainable Small Farming and Ranching*,” Soils 404, WSU Puyallup, fall semester, 2002, 2003, 2004. Supervised courses in King County, Kitsap County, Jefferson County, Mason County, Okanogan County, Snohomish County, Stevens County, Whatcom County (2005, 2006). Supervised adaptation and teaching for Hmong farmers in King County (2005) and Latino farmers in Yakima County (2005).

“*Field Analysis of Sustainable Food Systems*,” Soils 445, Pullman Campus, 3 credits, 8-day, immersion field course, summer/fall semester 2004, 2005, Spring Break (March 10-18), 2007.

Supervised two graduate student interns with theses and independent study projects.