

CURRICULUM VITAE

Laura L. Jackson

April 2024

Director, Tallgrass Prairie Center
Professor, Department of Biology, University of Northern Iowa
Cedar Falls, IA 50614 Phone: 319-273-2705; email: Laura.Jackson@uni.edu

EDUCATION

B.A., Grinnell College, Grinnell, Iowa, 1983. Biology, with Honors
Ph.D., Cornell University, May 1990. Ecology and Evolutionary Biology; Agronomy minor

PROFESSIONAL POSITIONS

2013- Director, Tallgrass Prairie Center UNI and Professor of Biology
2007-2012 Advisor, Professional Science Masters in Ecosystem Management
2005 Professor, Department of Biology, University of Northern Iowa, Cedar Falls.
1999 Associate Professor, University of Northern Iowa, Cedar Falls.
1993 Assistant Professor, University of Northern Iowa, Cedar Falls.
1990-1993 Research Ecologist, The Desert Botanical Garden, Phoenix, Arizona.
1983-1989 Instructor and teaching assistant, Plant Ecology; National Science Foundation Fellow; Research Assistant. Cornell University.

GRANTS, CONTRACTS AND CHARITABLE GIFTS

2024 Greenhouse Building Renovation Fund, \$66,500. Multiple donors.
2023 Irvine Prairie Implementation Fund Phase II: 2023-2029. \$525,000.
Irvine Prairie, an additional gift of 215 acres of land in Benton County to the UNI Foundation Properties Corporation. Gift of Mrs. Cathy Irvine, Dysart.
Prairie Roots Project 2023. Living Roadway Trust Fund. 1 year, \$23,058.
2022 Assessment of the Supply and Demand Factors Affecting Native Seed Price and Availability in the Upper Midwest and Great Plains. USDA Farm Services Agency, 3 years, \$500,000.
Prairie Roots Project 2023. Iowa Department of Transportation Living Roadway Trust Fund, 1 year, \$23,058.
2021 Improving Midwestern Agriculture's Environmental, Social and Economic Footprint with Prairie Strips (Iowa State University Sub-Contract, 3 years, \$150,000.
Irvine Prairie Endowment from Mrs. Cathy Irvine, Dysart, to UNI Tallgrass Prairie Center to support the continued upkeep and maintenance of Irvine Prairie. \$1,000,000.
2020 Expanding the value of the Conservation Reserve Program for monarch butterfly recovery in the upper Midwest. US Department of Agriculture Farm Service Agency. 2.25 years, \$296,664.
2019 Toward widespread adoption of prairie conservation strips: case studies increase expertise of professional farm managers, landowners and farmers. USDA Sustainable Agriculture Research and Education Grant, 3 years, \$199,500.
2018 Quality Assurance, Expanded Market Potential, and Long-term Stewardship of Natural Selections Source Identified Seed 2018. \$60,331. Iowa Department of Transportation Living Roadway Trust Fund.

Irvine Prairie, a gift of 77 acres of land in Benton County, to UNI Foundation, and Irvine Prairie Implementation Fund. Five years, \$250,000 for installation costs. Gift of Mrs. Cathy Irvine, Dysart, Iowa to Tallgrass Prairie Center.

- 2017 Scaling up the use of native perennial vegetation for water quality and landscape diversity. Leopold Center for Sustainable Agriculture, \$117,000
- Supporting student experiences in applied conservation science: replacement, upgrade and modernization of essential equipment at the Tallgrass Prairie Center. RJ Charitable Trust, \$247,000
- Habitat Restoration for Monarchs Phase 2: Reaching Rural Audiences and Inspiring Continued Action (Subaward) 10/1/16-9/30/17, Monarch Joint Venture and New York Community Trust, \$46,000
- Seed mix experiments and analysis of native seed supply for the pollinator habitat initiative. US Farm Services Agency cooperative agreement. 7/17-12/19; \$212,000
- UNI Conservation Corps: Pollinator Habitat Evaluation Service. UNI CEEE internal grant. \$90,000
- 2016 Reducing Seed Costs in roadside plantings 1/16-12/16, State DOT-LRTRF, \$20,000
- Prairie Roots Project (5/16-5/17), State DOT-Living Roadway Trust Fund (LRTRF), \$28,000
- General vs. custom designed prairie seed mixes for contour buffer strips: on-farm demonstrations and workshops for technical providers. 7/16-3/30/18, Iowa Nutrient Reduction Ctr , \$111,000
- Habitat restoration for monarchs: demonstrating how farmers and other landowners can support an iconic insect. 6/1/15 - 5/31/16, Monarch Joint Venture-New York Community Foundation, \$51,000
- Information, demonstration and technology transfer for establishment and management of diverse native vegetation for pollinator habitat and other applications. 12/1/14-12/31/16, NRCS , \$69,000
- Recensus of the Prairie Fringed Orchids in Iowa 6/1/2015-1/31/2016, Iowa DNR, \$29,835
- Linking nutrient reduction practices with biomass energy: quantifying thermal energy demand and supply capacity for representative farms in eastern Iowa , July 1, 2015-June 30, 2017, Iowa Nutrient Research Center, \$116,000
- The Iowa Watershed Approach for Urban and Rural Resilience, with Iowa Flood Center 2016-2021, US Housing and Urban Development, \$438,000 (subaward).
- Habitat Restoration for Monarchs Phase 2: Reaching Rural Audiences and Inspiring Continued Action 2016-17, NYCT with Monarch Joint Venture, \$52,000,
- Assessment of Conservation Reserve Program Grasslands for Wildlife Habitat. With Ai Wen., US Geological Survey, \$35,000.
- 2015 IDOT-LRTRF, Reducing Seed Costs in roadside plantings 1/15-12/15, \$31,689
- IDOT-LRTRF, Prairie Roots Project (5/15-4/16), \$27,760

- Iowa Nutrient Reduction Center, General vs. custom designed prairie seed mixes for contour buffer strips: on-farm demonstrations and workshops for technical providers. 11/1/14-6/30/15, \$121,000
- Leopold Center for Sustainable Agriculture, Prairie contour strips: demonstrating the importance of custom seed mix design for biological integrity. 6/1/15 - 5/31/16, \$76,500
- Monarch Joint Venture-New York Community Foundation, Habitat restoration for monarchs: demonstrating how farmers and other landowners can support an iconic insect. 6/1/15 - 5/31/16, \$47,000
- NRCS, Information, demonstration and technology transfer for establishment and management of diverse native vegetation for pollinator habitat and other applications. 12/1/14-12/31/15, \$48,000
- Monarch Joint Venture-Council on Economic Cooperation, Providing leadership and knowledge for improving the habitat of the monarch butterfly across Mexico, US and Canada., \$40,000 (Pending)
- 2014 IDOT-LRTF, "Reducing Seed Costs in Native Plantings" \$28,567
 IDOT-LRTF "Prairie Roots Project" \$24,413
 EPSCoR Capacity Grant. Developing a Multi-State Research Partnership for Economic Use of Prairies on Farms. \$7300.
- 2013 EPSCoR Capacity Grant, "Can seeds escape their predators in experimental prairie restorations?" \$1000
 EPSCoR Summer Camp Grant, "Wild Energy Adventure" \$5000
 UNI Facilities Planning Campus Project, "Soil Quality Restoration" \$1500
 Iowa Lakeside Lab Honors Program with Sarah Kleinhesselink; \$3000
 IDOT-LRTF, "Reducing Seed Costs in Native Plantings" \$28,567
 IDOT-LRTF "Prairie Roots Project" \$24,413
- 2012 IDOT-LRTF: The Prairie Roots Project. \$15,703
- 2011 IDOT-LRTF Native Plants Education for Cities over 10,000. \$15,119 (*returned*)
 IDOT-LRTF The Prairie Roots Project. \$14,949
 Black Hawk County Conservation Board Graduate Assistantship contract. \$5000
- 2010 BHCCB Graduate Assistantship contract. \$9,000
 IDOT-LRTF: Native Plants Education for Cities over 10,000 Population. \$13,900
- 2009 BHCCB Graduate Assistantship contract. \$9,000
 IDOT-LRTF: Prairie Roots Project \$23,148
- 1993-2009
 Records lost.

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science, Practical Farmers of Iowa, Iowa Environmental Council, Iowa Native Plant Society, Iowa Natural Heritage Foundation, Iowa Prairie Network. Boards of Directors: Leopold Center for Sustainable Agriculture (2003-2013), State Preserves Advisory Board (2001-2007), Monarch Joint Venture Steering Committee (2014-2020)

TEACHING ASSIGNMENTS (CURRENT IN BOLD)

Applied Ecology and Conservation, Conservation Biology, **Restoration Ecology**, Organismal Diversity Lab, General Ecology Lab, Advanced Ecology, **Life: the Natural World**; Environment, Technology and Society; **Undergraduate Research Seminar, Graduate Colloquium**

JOURNAL ARTICLES AND BOOK CHAPTERS

- Glidden, A. J.*, M. E. Sherrard, J. C. Meissen, M. C. Myers, K. J. Elgersma, and L. L. Jackson. 2022. Planting time, first-year mowing, and seed mix design influence ecological outcomes in agroecosystem revegetation projects. [Restoration Ecology e13818](#).
- Wen, A., KJ Elgersma, ME Sherrard, LL Jackson, J Meissen and MC Myers. 2022. Wild bee visitors and their association with sown and unsown floral resources in reconstructed pollinator habitats within an agriculture landscape. *Insect Conservation and Diversity* 15(1):102-113.
- Meissen, J., A. Glidden*, M. Sherrard, K. Elgersma and L. L. Jackson. 2019. Seed mix design and first year management influence multifunctionality and cost effectiveness in prairie reconstruction. *Restoration Ecology* <https://doi.org/10.1111/rec.13013>
- Riebkes, J. L.*, M. E. Sherrard, and L. L. Jackson. 2018. Supplemental seed increases native seedling establishment in roadside prairie restoration. *Restoration Ecology*. DOI: [10.1111/rec.12699](https://doi.org/10.1111/rec.12699)
- Pellish, C.A.*, M. E. Sherrard, P. A. Leytem* and L. L. Jackson. 2018. Small vertebrate granivores reduce seedling emergence in native tallgrass prairie restoration. *Restoration Ecology* DOI [10.1111/rec.12557](https://doi.org/10.1111/rec.12557)
- Thogmartin, WE, L. López-Hoffman, J. Rohweder, J. Diffendorfer, R. Drum, D. Semmens, S. Black, I. Caldwell, D. Cotter, P. Drobney, L. L. Jackson, M. Gale, D. Helmers, S. Hilburger, E. Howard, K. Oberhauser, J. Pleasants, O. Taylor, P. Ward, J. Weltzin, B. Semmens, M. Steele, and R. Wiederholt. 2017. Restoring monarch butterfly habitat in the Midwestern US: 'all hands on deck.' *Environmental Research Letters* 12 (2017) 074005. doi.org/10.1088/1748-9326/aa7637
- Jackson, L.L. and D. D. Keeney. 2010. Perennial farming systems that resist flooding. Pages 215-225 in Mutel, Cornelia, editor. *A Watershed Year: Anatomy of the Iowa Floods of 2008*. University of Iowa Press, Iowa City.
- Jackson, L. L. 2008. Who "designs" the agricultural landscape? *Landscapes Journal* 27:23-40. Special Theme Issue on Metropolitan Design.
- Williams, D. W., L. L. Jackson and D. D. Smith. 2007. Effects of mowing on survival and persistence of forbs seeded into a species-poor grassland. *Restoration Ecology* 15:24-33.

- Jackson, L. L. 2006. The farmer as conservationist? Determining responsibility for the industrial food landscape. In D. Imhoff and J. Baumgartner, eds. *Farming and the Fate of Wild Nature: Essays in Conservation-Based Agriculture*. Watershed Media: Healdsburg, California.
- Jackson, D. L. and L. L. Jackson, Editors. 2002. *The Farm as Natural Habitat: Reconnecting Food Systems with Ecosystems*. Island Press, Covelo, California.
- Jackson, L. L. 2002. Restoring prairie processes to farmlands. Pages 137-154 in Dana L. Jackson and Laura L. Jackson, editors. *The Farm as a Natural Habitat: Reconnecting Food Systems with Ecosystems*. Island Press: Covelo, California.
- Jackson, L. L. and D. L. Jackson. 2002. Introduction. Pages 1-10 in Dana L. Jackson and Laura L. Jackson, editors. *The Farm as a Natural Habitat: Reconnecting Food Systems with Ecosystems*. Island Press: Covelo, California.
- Jackson, L. L., D. Keeney and E. Gilbert. 2000. Swine manure management plans in North-Central Iowa: nutrient loading and policy implications. *Journal of Soil and Water Conservation* 55:205-212
- Jackson, W. and L. L. Jackson. 1999. Developing high seed yielding perennial polycultures as a mimic of a mid-grass prairie. Pages 1-43 in Lefroi, T. Editor. *Agriculture as a Mimic of Natural Ecosystems*. Kluwer Publishing, Dordrecht, Netherlands.
- Jackson, L. L. and P. W. Comus. 1999. Ecological consequences of agricultural development in a Sonoran Desert Valley. In R. H. Robichaux, ed. *Ecology and Conservation of Sonoran Desert Plants: A tribute to the Desert Laboratory*. Tucson: University of Arizona Press.
- Jackson, L. L. 1999. Establishing tallgrass prairie species on a rotationally grazed permanent pasture in the Upper Midwest: remnant plant assessment and seeding and grazing regimes. *Restoration Ecology* 7: 127-138.
- Jackson, L. L. 1998a. Agricultural industrialization and the loss of biodiversity. Pages 66-76 in L. D. Guruswamy and J. A. McNeely, editors. *Protection of Global Biodiversity: Converging Strategies*. Duke University Press, Durham, North Carolina.
- Jackson, L. L. 1998b. Large Scale Swine Production and Water Quality. Pages 103-119 in Thu, K. and W. Goldschmidt, editors. *Pigs, Profits, and Rural Communities*. State University of New York Press.
- Jackson, L. L., R. L. Huffman, L. E. Lanyon, D. D. Schulte, N. Lynch, D. Keeney and G. R. Hallberg. 1996. Water Quality. Pages 11-45 in Thu, K., editor. *Understanding the impacts of large scale swine production: Proceedings from an interdisciplinary scientific workshop*. June 29-30, 1995, Ames Iowa.
- Jackson, L. L., N. Lopoukhine, and D. Hillyard. 1995. Ecological restoration: A definition and comments. *Restoration Ecology* 3:71-75.
- Jackson, L. L. and C. L. Dewald. 1994. Predicting evolutionary consequences of greater reproductive effort in *Tripsacum dactyloides*, a perennial grass. *Ecology* 75: 627-641.
- Jackson, L. L. and B. A. Roundy. 1993. Plant selection, hydroseeding, mycorrhizae, irrigation research highlight desert restoration group meeting (Arizona). *Restoration and Management Notes* 10: 212-213.
- Allen, E.B. and L.L. Jackson. 1993. What are the limitations to restoration of arid and semi-arid lands in the western U.S.? *Restoration and Management Notes* 10:56-59.
- Jackson, L. L., C. L. Dewald and C. C. Bohlen. 1992. A macromutation in *Tripsacum dactyloides* L. (Poaceae): consequences for seed size, germination, and seedling establishment. *American Journal of Botany* 9: 1031-1038
- Jackson, L. L., J. R. McAuliffe, and B. A. Roundy. 1992. Desert restoration: revegetation trials on abandoned farmland. *Restoration and Management Notes* 9:70-79.

Jackson, L. L. 1992. The role of ecological restoration in conservation biology. Pp 434-451 in P. Fiedler and S. Jain, eds. *Conservation biology: the theory and practice of nature conservation, preservation and management*. Chapman and Hall Press, New York.

OTHER PUBLICATIONS

Jackson, L. L. 2021. Review of *Iowa State Parks: A Century of Stewardship 1920-2020* by Rebecca Conard. *The Annals of Iowa* 80:181-183.

Jackson, L.L. and P Berendzen 2011. Consequences for Iowa's Flora and Fauna. Chapter 4 in "Climate Change Impacts on Iowa 2010: Report to the Governor and the General Assembly".

Jackson, L. L. 2010. Review of *From the Corn Belt to the Gulf: Societal and Environmental Implications of Alternative Agricultural Futures*. Editors Joan Iverson Nassauer, Mary Santelmann and Donald Scavia. *Landscape Journal* 29:90-92.

Jackson, L. L. 2009. Review of *Old Fields: Dynamics and Restoration of Abandoned Farmland* eds. Vicki Cramer and Richard Hobbs. *Restoration Ecology* 17:560-561.

Jackson, L. L. 2007. Book Review of *The Haymakers: A chronicle of five farm families* by Steven Hoffbeck. *Land Stewardship Letter*, Autumn 2007, pp. 26-27.

Jackson, L. L. 1990. Life history consequences of greater seed production in a perennial grass, *Tripsacum dactyloides*: a comparison of high and low seed-yielding genotypes. Dissertation. Cornell University, Ithaca, New York.

Dittmer, L. and L. L. Jackson. 1997. *Prairie Seedlings Illustrated: an identification guide*. Volume I: Twenty selected grasses and forbs. University of Northern Iowa, Cedar Falls. 48 pp. Third printing.

Jackson, L. L. Review of K. M. Urbanska, N. R. Webb, and P. J. Edwards, eds. 1999. *Restoration Ecology and Sustainable Development*. *Restoration Ecology* 7:98-101.

Jackson, L. L. Book Review: *Managing Habitats for Conservation*. by William J. Sutherland and David A. Hill, Eds. 1995. *Restoration Ecology* 4:433-435.

Jackson, L. L. Letter. Ammonia volatilization in anaerobic manure lagoons: a response to D. Hoagand and F. Roka (Vol. 10:163-166). *American Journal of Alternative Agriculture* 11:136.

POSTERS, PUBLISHED ABSTRACTS, AND PRESENTATIONS (STUDENTS IN BOLD)

Frischie, Stephanie, Laura Jackson and Richard Iovanna. 2023. Supply and demand factors affecting price and availability of native seeds in the upper Midwest and Great Plains. National Native Seed Conference, Alexandria, Virginia. 3/29/23.

Jackson, Laura L, Kristine Nemec and Laura Fischer Walter. A 33-year old native seed system in the Upper Midwest: Public policy and investment contribute to a diverse commercial native seed market. National Native Seed Conference, Alexandria, Virginia. 3/29/23.

Laura Fischer Walter and Laura Jackson. 2023. A 33-year old native seed system in the Upper Midwest: the evolving role of stock seed production and stakeholder communications. Poster presentation, National Native Seed Conference, Alexandria, Virginia, March 27 – 30, 2023.

Pellish, C., P. Leytem, S. Kleinhesslink and L. L. Jackson. 2013. Disappearing act: tracking the fate of seeds in North American tallgrass prairie restorations. Society for Ecological Restoration Annual Meeting, Madison, Wisconsin.

- Jackson, L. L. 2011. Educating the next generation of conservation professionals: what would Leopold do? Invited keynote presentation, Annual Meeting of NatureServe: Biodiversity without Boundaries. Nebraska City, Nebraska. May 8-13, 2011
- Jackson, L. L. , M. C. Myers. 2011. Educating new leaders in conservation: the Professional Science Masters in Ecosystem Management at UNI. Annual Meeting of NatureServe: Biodiversity without Boundaries. Nebraska City, Nebraska. May 8-13, 2011.
- Jackson, L. L. and P. Berendzen. 2011. Climate Change impacts on Iowa's Flora and Fauna. Iowa Academy of Science Annual Meeting, Wartburg College. April 29-30, 2011.
- Jackson, L. L. , M. C. Myers. 2011. Educating new leaders in conservation: the Professional Science Masters in Ecosystem Management at UNI. Iowa Academy of Science Annual Meeting, Wartburg College. April 29-30, 2011.
- Jackson, L. L. , M. C. Myers. 2010. Educating new leaders in conservation: the Professional Science Masters in Ecosystem Management at UNI. 22rd North American Prairie Conference. August 2, 2010.
- Jackson, L. L. , M. C. Myers and D. Smith. 2008. Project-based graduate education in conservation: first year results. Iowa Academy of Sciences Annual Meeting.
- Hemsath, C.** and L. L. Jackson. 2008. Quantifying granivory in a reconstructed prairie: affects of season, species, seed predators, sacrificial food, and the chemical deterrent capsaicin. Biennial North American Prairie Conference, Winona, Minnesota.
- Jackson, L. L. and D. Q. Lewis. 2007. Iowa's State Preserves: Challenges to Conservation of Biodiversity. Iowa Chapter, Society for Conservation Biology meeting.
- Jackson, L. and M. Myers. 2007. A new Professional Science Masters Program in Ecosystem management. Society for Conservation Biology, Iowa Chapter Annual Meeting, Sandstone, Minnesota.
- Jackson, L. and M. Myers. 2007. A new Professional Science Masters Program in Ecosystem Management. Society for Conservation Biology, Minnesota Chapter Annual Meeting, Sandstone, Minnesota.
- Jackson, L. 2007. Conservation on Working Lands. Society for Conservation Biology, Minnesota Chapter Annual Meeting, Sandstone, Minnesota.
- Hemsath, C.** and L. Jackson. 2006. Reduction of rodent granivory in a prairie reconstruction. Biennial North American Prairie Conference, Kearney, Nebraska.
- Carolan, A. L., D. Williams** and L. L. Jackson. 2005. Adding Wildflower Diversity to Species-Poor grasslands using mowing. Iowa Prairie Conference, Cedar Rapids.
- Jackson, L. The Farm as Natural Habitat. 2005. Iowa Prairie Conference.
- Carolan, A. L., D. Williams, T. E. Morse,** and L. L. Jackson. 2004. Use of mowing to establish forbs in a mature prairie reconstruction: early and long-term effects on plant size and seedling establishment. Published abstract and presentation, 19th North American Prairie Conference, Madison, Wisconsin.
- Williams, W. D.,** L. L. Jackson, G. A. Houseal, and D. D. Smith. 2004. Growth and reproduction of local ecotype and cultivated varieties of *Panicum virgatum* and *Coreopsis palmata* grown in common gardens. Published abstract and presentation, 19th North American Prairie Conference, Madison, Wisconsin.
- Jackson, L. L. 2003. Shaping biodiverse production systems in collaboration with producers, consumers, and agricultural scientists: a view from North America. Symposium presentations, Annual Meeting of the Ecological Society of Australia, Armidale, New South Wales (December). Sponsored by ESA, CNS and Biology Department UNI.
- Jackson, L. L. and D. L. Jackson. 2002. "The Farm as a Natural Habitat: Reconnecting Food Systems with Ecosystems." Symposium presentation, Annual Meeting of the Ecological Society of America, Tucson, Arizona.

- Jackson, L. L. 2002. Prairie seeding using cattle trampling. Symposium presentation, North American Prairie Conference, Kirksville, MO.
- Jackson, L. L. and M. Natvig. 2002. Restoration of prairie-savanna pastures in northeast Iowa. Annual Meeting of the Practical Farmers of Iowa, Ames, Iowa.
- Loecke, T.** and L. L. Jackson. 2001. Uncoupling nutrient cycles in Midwestern agroecosystems: N and P flows on diversified farm vs. confined animal feeding operations. Poster Presentation, Annual Meeting of the Ecological Society of America, Madison, Wisconsin.
- Jackson, L. L. and M. Natvig. 2001. Restoration of prairie-savanna pastures in northeast Iowa. Midwest Organic Farming Annual Conference, LaCrosse, Wisconsin.
- Jackson, L. L. 2000. Swine concentration in Hamilton County, Iowa: local nutrient loading estimates and policy implications. Iowa Academy of Sciences Annual Meeting, Des Moines.
- Williams, D.** , L. L. Jackson and D. Smith. 2000. Seedling emergence and mortality of prairie forbs in an established stand of warm and cool season grasses. 17th North American Prairie Conference, Mason City, Iowa.

DEPARTMENTAL SEMINARS, 2001-

2022

University of Iowa Department of Geography. Making Prairie Practical: Update from the Tallgrass Prairie Center. 1 April. Online/Iowa City.

2020

Lessons learned from prairie restoration in Iowa. Prairie Corridor Lab group Webinar Series, University of Nebraska Lincoln. June 24.

2019

Herbaceous, Perennial Seed Producing Polycultures at the Tallgrass Prairie Center. The Land Institute Seminar Series, September 28, Salina, Kansas.

2018

Progress in an intractable system: seed mix design for tallgrass prairie restoration. Iowa State University Natural Resources Ecology and Management Seminar Series, Ames, Iowa. 11/9/2018.

2014

Science and Art: Dual Perspectives on the Tallgrass Prairie, with Asst. Prof. Wendy Miller, UNI Gallery of Art

Conservation Biology in the Land of Corn and Beans: History and Ecological Restoration, Guest Lecture, History Department, UNI

Recovery of the Monarch Butterfly: restoring biological diversity in Iowa, Department of Geography Colloquium, UNI

2013

The Prairie Roots Project: Visualizing Soil Processes and Ecosystem Services. Tallgrass Prairie Center Restoration and Management Seminar.

The Prairie Roots Project: Visualizing Soil Processes and Ecosystem Services.
Environmental Science Seminar, University of Iowa

2012

Native Prairie: Restoring resilience on farms and in watersheds. Environmental Science Program, Ohio State University

Environmental Challenges and Responses course, Grinnell College

2011

Consequences of climate change on Iowa's flora and fauna: A literature review. UNI Department of Biology Graduate Colloquium.

Conservation Biology in the Land of Corn and Beans: an 18-year research retrospective. UNI Department of Biology Graduate Colloquium.

2010

Darwin's "other" contributions. Darwin Days celebration, UNI

Diversifying a species-poor prairie: seedling establishment and seed predation experiments 1998-2009. Biology Department Colloquium

2009

Climate change and ecological resilience in the Corn Belt. Ecology Department seminar, South Dakota State University, Brookings.

2008

Who designs the agricultural landscape? Graduate Program in Sustainable Agriculture Seminar, Iowa State University

Environmental Challenges and Responses course, Grinnell College

2007

A new PSM in ecosystem management: Concept, development, perils, questions. Graduate Coordinators Brown Bag Lunch series, UNI.

Managing biodiversity in agricultural landscapes: lessons from Australia and the US. With Dr. Jann Williams. The Land Institute Fellows program, Mattfield Green, Kansas.

2005

Ecological effects of GMO crops: What do we know? UNI Graduate Colloquium

2004

Land use change in the upper Midwest: consequences for N cycling. UNI Geography Department guest lecture

2003

Designing farming systems for nitrogen efficiency. UNI Environmental Science Graduate Program.

The Farm as Natural Habitat. Oberlin College Environmental Studies Program.

The Farm as Natural Habitat. Sustainable Agriculture Graduate Colloquium, Iowa State University

The Farm as Natural Habitat. CSIRO Sustainable Ecosystems, Canberra, Australia

2002

The Farm as a Natural Habitat. UNI Dept. of Biology Inspiring Biology Series.

The Farm as Natural Habitat. Luther College Dept. of Biology

Water Quality and Land Use Practices in Iowa. UNI Department of Geography

Restoration of Ecosystem Services and Biodiversity via Grassland Agriculture: What Can We Measure? U. Wisconsin-Madison

Land use change and nitrogen in midwestern agroecosystems. UNI Dept. of Geography, Rivers.

Restoring Prairie Processes to Farmlands. U of I Environmental Science Seminar

2001

Swine concentration in north central Iowa: Nutrient loading and policy implications. UNI Geography Colloquium

Panelist, Grinnell College Mini-Symposium. Prairie Plants: Their History and Future as Food and Medicine

INVITED LECTURES

2024

Expanding the value of the CRP for monarch recovery. USDA-Farm Services Agency seminar, Des Moines, Iowa. 3/13/24 with Justin Meissen.

Planning, planting and managing tallgrass prairie: research and on-farm experience. Iowa Learning Farms webinar 12/13/23, Ames, Iowa. With Justin Meissen and Andy Olson.

A lost cause? Bringing prairie back to the cornbelt. Keynote, North American Prairie Conference, Altoona, IA 6/26/24

2023

Planning, planting and managing tallgrass prairie: research and on-farm experience. Practical Farmers of Iowa Annual Meeting. 1/20/23, Ames, Iowa. With Justin Meissen and Andy Olson.

Planning, planting and managing tallgrass prairie: research and on-farm experience. Best Practices for Pollinators Summit, Pollinator Friendly Alliance. 3/7/2023, online. With Justin Meissen and Andy Olson.

Seed mix and planting methods for diverse, resilient prairie strips. STRIPS Stakeholders Meeting, Independent, Iowa. 7/28/23. With Justin Meissen and Andy Olson.

Tallgrass Prairie Center CRP Augmentation Research Update. Iowa NRCS Meeting, 9/15/22. With Justin Meissen and Tristan Murphy.

Tallgrass Prairie Center Monarch Recovery Efforts. Monarch Joint Venture Partner Update 9/29/22. With Kristine Nemecek.

Caring for pollinator planting/Rain Garden workshop. 10/13/22. Organized by the Tallgrass Prairie Center for City and campus landscaping staff. With Mallory Sage and Bri Hull.

2022

Past, present and future of Iowa's landscape: studying the horizon. Practical Farmers of Iowa Annual Meeting Keynote Address. 1/21/22, Ames, Iowa.

2021

Evaluating the success of a large, private habitat program in the Upper Midwest. With Justin Meissen. Monarch Joint Venture Partners Meeting, 1/11/22

Conservative species establishment and successful interseeding: what do we know? with Justin Meissen. The Wildlife Society, Iowa Chapter Annual Meeting. 10/5/21

The Native Seed Market in Iowa. National Academies of Science, Math and Engineering (NASEM) Native Seed Assessment Committee. Webinar Presentation, March 8. With Laura Walter, Kristine Nemecek, and Justin Meissen.

2019

Managing older prairie plantings: best practices to encourage wildflowers and control weeds. Traer Public Library, February 14, Traer, Iowa.

Improving chances of success and cost-effectiveness in nutrient reduction practices: prairie strips. Iowa Nutrient Research Center Legislative Update. February 19, Des Moines, Iowa.

Native Seed Sourcing. Winter Enrichment Seminar, UW Madison Arboretum. March 14.

(Keynote) Ecological Restoration and rapid anthropogenic change: the tallgrass prairie of the future. Annual Meeting, Midwest-Great Lakes Chapter, Society for Ecological Restoration. April 12, Pella, Iowa.

2017

A land of milk and honey: re-connecting food systems with ecosystems in the tallgrass prairie region. Green Lands Blue Waters Annual Conference, Madison, WI 11/28-29/17

2016

Implementing a large scale habitat restoration program for pollinators, Quad Cities Pollinator Conference, Davenport IA 6/11/15

Iowa Prairie Conference, The Tallgrass Prairie Center's next 10 years. Cedar Falls, IA 7/17/15

Costs and benefits of pollinator habitat, and reducing seed costs. White House Transportation Leaders Summit, Washington DC 12/4-5/15

Use of native perennials in nutrient reduction: 1st year results, INRC Collaborators Mtg., Des Moines IA 3/31/16

First year results of seed mix and mowing study, Monarchs on Farms Workshop, Farmington MN 4/1/16

Role of UNI TPC in providing technical assistance for use of native perennials in flood risk reduction. HUD Collaborators Meeting, April 7 2016.

2015

Expanding Prairie on the Landscape, Iowa Prairie Network Annual Meeting, Ankeny

Restoring prairie on farms for monarchs and water quality: observations and lessons from IRVM, Association for Integrated Roadside Management Winter Meeting

Monarch habitat management and restoration, USDA Natural Resource Conservation Service meeting of Corn Belt States, Bloomington MN

Replacing lost monarch butterfly (*Danaus plexippus*) habitat in the upper Midwest: building elements of a successful program. , Society for Ecological Restoration-Midwest-Great Lakes Chapter Annual Meeting, Chicago Botanical Garden

Panel Discussion on Environmental impacts of pipeline construction, Energy Ethics Symposium, UNI

2014

Implementing a large scale habitat restoration program: observations and lessons from the Tallgrass Prairie, Make Way for Monarchs, Chicago Botanical Garden

The Tallgrass Prairie Center: Resources for Prairie STRIPS, ISU STRIPS Stakeholder Meeting, Neal Smith National Wildlife Refuge

Restoring Ecological Health in an Agricultural Sacrifice Zone, Plenary Lecture, Colloquium on Violence and Religion, UNI

2013

Tallgrass prairie: adding resilience value to farms and watersheds. Seversen Dells Nature Center, Rockford, Illinois.

The Prairie Roots Project: Visualizing soil processes and ecosystem services. Dickinson County Nature Center. With Carmen Pellish.

Iowa Lakeside Laboratory Summer Lecture Series.

Restoring ecological health in an agricultural sacrifice zone. (Keynote) A Colloquium On Violence And Religion--A Land between Two Rivers: Space, Place, and Mimetic Theory. University of Northern Iowa.

2012

Tallgrass prairie: adding resilience value to farms and watersheds. Midwest Value-Added Conference, La Crosse, Wisconsin.

2011

The Prairie Roots Project. Iowa Roadside Conference, Waterloo, Iowa.

2010

Building ecological resilience for a changing climate: the role of agriculture in the upper Midwest. Association of County Conservation Boards Annual Winterfest.

2009

Forb enhancement of grassland plantings. Annual Winterfest, Iowa Association of County Conservation Boards Annual Meeting.

Darwin the person. Presentation and panel discussion, Unitarian Universalist Society of Black Hawk County

The front lines of global change: Managing Iowa's natural areas. State Preserve Manager's seminar, Cedar Falls.

Climate Change in the Hawkeye State. I-Renew Expo.

Keynote address: The Sustainable Iowa Landscape: Resilience in the Face of Global change. Iowa Women in Natural Resources Annual conference.

Enhancing prairies with greater forb diversity: 10 years of experiments. Iowa Association of County Conservation Boards Annual Winterfest.

2008

Forb enhancement of grassland plantings. Winterfest, the Iowa Association of County Conservation Boards annual meeting.

2007

Keynote Address: The new agriculture—back to the future? Agricultural Watershed Institute Annual Meeting, Decatur, Illinois

Panel Moderator: “A Conversation with Wendell Berry.” Shivvers Memorial Lecture Series, Iowa State University, Ames.

2006

The Farmer as conservationist? Busting Leopold’s myth and moving on. Prairie Festival, The Land Institute, Salina, Kansas.

The farm as natural habitat. Michigan Organic Conference, East Lansing.

The ecosystem management concept: applications for local government. Iowa State Association of Counties Fall School, Des Moines.

2005

The farm as natural habitat. Practical Farmers of Iowa Annual Meeting, Des Moines

The farm as natural habitat. Upper Midwest Organic Farming Conference (Keynote), LaCrosse, WI

The farm as natural habitat. Sustainable Landscapes Conference (Keynote), Utah State University, Logan

The farm as natural habitat: A vision for Iowa. Shivvers Memorial Lecture Series, Iowa State University, Ames, Iowa.

2004

The farm as natural habitat. Workshop, New Mexico Organic Gardening and Farming Expo, Albuquerque.

The farm as natural habitat. Encouraging Relationships of Sustainability Lecture Series, Santa Fe, NM

The Importance of the UNI Preserves System today. Thirtieth Anniversary of the UNI Prairie Preserve

What State Preserve status means for Hartman. Dedication, Hartman Bluff State Preserve, Cedar Falls

Eating as if Nature Mattered. Saul Sidore Lecture Series, University of New Hampshire Center for the Humanities. With Dana L. Jackson.

2003

Connecting the Grocery List to the Endangered Species List. Aldo Leopold Foundation
Shack Seminar Series, Baraboo Wisconsin; with Dana Jackson

2002

Swine concentration in north central Iowa: Nutrient Loading and Policy Implications.
Public forum in New Hampton, Iowa.

The farm as natural habitat. Sierra Club Annual Dinner, Iowa City.

The farm as natural habitat. Cedar Rapids Museum of Art.

The farm as natural habitat. Book signing, Ames, Iowa.

2001

What does it mean to love the land? (Keynote) Texas Philosophical Society, Austin, Texas.

Panelist, John Pesek Colloquium in Sustainable Agriculture, Decorah, Iowa.

Panelist, Iowa Women in Natural Resources Annual Meeting

Swine concentration in north central Iowa: Nutrient loading and policy implications.
Riverkeepers Meeting, Calmar, Iowa.

SERVICE

BIOLOGY DEPARTMENT

2022- Biological Preserves Manager
2019- Chair, Biological Preserves Committee
2012 Faculty Search—Ecosystem Ecologist
2007-present Advisor, Professional Science Masters in Ecosystem Management
F05 Faculty Search (Chair) Ecosystem Management (Mark Myers)
2004-F05 Publicity Committee
2004-2012 Preserves Committee Chair
2001, 2004 Biology Graduate Committee
2001 Professional Assessment Subcommittee
1994-present Student Outcomes Assessment Committee
1998 Applied Ecology track curriculum committee (Ad Hoc)
1995 Herbarium Committee
Natural History Interpretation Curriculum Committee
Plant Systematist search committee

COLLEGE OF HUMANITIES ARTS AND SCIENCES (NATURAL SCIENCES THROUGH 2010)

2016-present Strategic planning Tallgrass Prairie Center
2012-2013 Liberal Arts Core Committee
2012 CHAS Promotion and Tenure Committee
2006-2012 PSM Coordinating committee
2006 Physics Head Review
1998 Environmental Science Search (Maureen Clayton)
1997-98 Capstone Coordinating Committee

- 1997 Math Search (Mark Ecker)
Science, Math and Society Awards Committee
- 1994 Center for Energy and Environmental Education Search (Bill Stigliani)

UNIVERSITY

- 2019 Academic Positioning Committee: Environmental Studies Program
- 2016 Provost's Sustainability Initiative Planning Team
- 2015 Task Force V, Campus Master Plan. Enhancing Open Spaces, Recreation and Athletics
Search committee, Campus Landscape Architect
- 2013-2003-13 Advisory Committee, Iowa Climate Science Educators Group
- 2006-2007 Leopold Center for Sustainable Agriculture Advisory Board
- Leadership Education and Development: A Roundtable in Academic Administration
- 2005-06 Ad Hoc Subcommittee, West Campus Plan
- 2001-2007 State Preserves Advisory Board
- 1994-1997 Advisory Committee, Graduate Program in Public Policy
- 1994-present Reader, Environmental Policy Masters Degree Comprehensive Exams
- 1998 Summer Fellowship Selection Committee

REVIEWS

- | | |
|---|---|
| Iowa Science Foundation | Chapman and Hall Publishing |
| Sonoran Desert Institute | University of Arizona Press |
| The Nature Conservancy | Restoration Ecology |
| Indian Creek Nature Center | Journal of the Iowa Academy of Sciences |
| Finnish Academy of Science | Agr., Ecosystems & Environment |
| Maryland International Institute for Ecological Economics | Ecology |
| National Science Foundation | McGraw-Hill Publishing |
| The Land Institute | Island Press |
| National Fish and Wildlife Foundation | Oxford University Press |
| Agriculture, Ecosystems & Environment | University of Cape Town |
| Environmental Working Group | The Southwestern Naturalist |
| | Biodiversity and Conservation |
| | Journal of Applied Ecology |

PROFESSIONAL COMMITTEES AND OTHER SERVICE

- 2022-2023 2023 National Native Seed Conference Planning Committee
- 2022-2023 2023 North American Prairie Conference Planning Committee
- 2019-2020 2020 North American Prairie Conference Planning Committee
- 2015-2019 Search Committee, science coordinator, Monarch Joint Venture
- 2014-present Advisory Board, Monarch Joint Venture
- 2009 Search Committee, Director of the Leopold Center for Sustainable Agriculture, ISU
- 2009-10 Iowa Climate Impacts Report Intercollegiate Committee
- 2004-13 Selection Committee, Spencer Award for Sustainable Agriculture

- 2003-2013 Advisory Board, Leopold Center for Sustainable Agriculture
2001-2007 State Preserves Advisory Board (elected chair, April 2006)
2005 Land Stewardship Project Planning Committee and participant, Roundtable on Performance-Based Measures for Conservation Policy. Nov. 14, Ames.
1997-1998 Review, written comments and public testimony on the Draft Environmental Impact Statement for Eddyville Dunes Bypass
1994-1997 Board of Directors, Society for Ecological Restoration
1997 Field trip leader--Nature Conservancy and Iowa Native Plant Society
1998-present Protection, management, and documentation of biological diversity at Daubendiek Prairie, a 9 acre, privately-owned prairie remnant in Chickasaw County

COMMUNITY SERVICE RELATED TO THE PROFESSION

- Advisory group for Cedar Bend Savanna Restoration, Black Hawk County Conservation Board
Coordinate MOU communications for University and Black Hawk County, Cedar River Ecological Research Site
Land Stewardship Responsibility for Daubendiek Prairie, Chickasaw Co.
Leisure Services Department, Waterloo. Consultant on invasive species control, pollinator plantings.
Cedar Falls School District. Prairie plantings around new High School and revegetation of 27th Street (2021)
Inquiries from the general public about planting prairie
Presentations to Kiwanis Club, Rotary Club, International Students Club on Climate Change in the Hawkeye State