

PAMELA M. KITTELSON
DEPARTMENT OF BIOLOGY
GUSTAVUS ADOLPHUS COLLEGE
ST. PETER, MN 56082

EDUCATION

Ph.D. PLANT BIOLOGY University of California, Davis.

M.A. BIOLOGY California State Polytechnic University, Humboldt. Woolford Outstanding Graduate

B.A. BIOLOGY Colorado College. Graduation with Distinction

EMPLOYMENT

The Midstates Consortium of Math and Science (MCMS). Director, 2024-present.

Administer a consortium of 12 colleges and universities

Promote excellence in STEM education and research

Organize two annual undergraduate research symposia (N~120 attendees each)

Approve funding for seminar speaker series and faculty professional development

Write biannual newsletter and annual report

Manage budget, report to board and college administration

Developed and facilitate a mid-career workshop

Office of Competitive Fellowships and Scholarships. Director, Gustavus Adolphus. 2018-present.

Recruit, inform and support students applying to nationally competitive scholarships

Organize writing workshops, provide constructive feedback, write endorsement letters

Increased the number and diversity of students applying for and earning fellowships

Gustavus Adolphus College. Professor of Biology and Environmental Studies, 2011-present.

Associate Professor of Biology and Environmental Studies. 2005 - 2011.

Assistant Professor of Biology and Environmental Studies. 1999 - 2005.

Research: Diversity within and among plant populations in fragmented habitats

Courses:

Biodiversity (Bio 100) – non-majors biology

Principles of Biology (Bio 101) – required for majors

Ecology, Evolution and Behavior (Bio 202) –mid-level capstone required for majors

Plant Physiology (Bio 378) – upper-level elective; writing intensive

Ecology (Bio 370) – upper-level elective

Horticulture: The Art and Science of Growing Plants (Bio 126) – intensive one month block

Plant Systematics (Bio 377) – upper-level elective

Directed Research in Plant Ecology (Bio 396) – upper-level elective

Plant-Animal Interactions (Bio344) – upper-level elective; writing intensive

Special Topics: Resilience and Disturbance - upper-level elective; writing intensive

Natural History of California (Bio 123) - field based, one month travel block

First Term Seminar, Explorer Naturalists (FTS 128)– writing intensive

Social Justice, Peace and Development (IDS 240-44) – semester abroad in India
Development and Community in Bangladesh (HECUA January 2013)
Senior Seminar The Lived Experience (CUR399) – writing intensive
Challenge Seminar A Simple Life (IDS 228)

Instructor, U.C. Davis, 1998. General Botany.

Instructor, Cosumnes River College, 1995-1996. General Biology.

Laboratory Instructor and Teaching Assistant, U.C. Davis and Humboldt State. 1991-1996.

Instructor, Senior Ventures Elderhostel. Arcata, CA 1992-1993. Redwood Communities.

PUBLICATIONS Authors denoted with * were undergraduates at Gustavus

Kittelson, P.M., S. Wagenius, R. Nielsen*, S. Qazi, M. Howe*, G. Kiefer, and R.G. Shaw. 2015.
How functional traits, herbivory and genetic diversity interact in *Echinacea*: Implications for
fragmented populations. *Ecology* 97: 1877-1886.

Lesica, P. and P. M. Kittelson. 2013. Morphological and ecological segregation of two sympatric
Lomatium triternatum varieties in Montana. *Madroño* 60:211-216.

Kittelson, P.M. and Kelly, B. 2011. A Peer Mentor Program Enhances Confidence, Leadership and
Interdisciplinary Learning in Biology and Chemistry. International Mentoring Association
Conference Proceedings, University of New Mexico, October 2011.

Lesica, P. and P. M. Kittelson. 2010. Precipitation and temperature are associated with advanced
flowering in a semi-arid grassland. *Journal of Arid Environments* 74:1013-1017.

Kittelson, P., C. Pinahs* J. Dwyer* A. Ingersoll* E. Mans* J. Rieke* B. Rutman* and M. Volenec*
2009. Age-structure and genetic diversity in of four *Quercus macrocarpa* populations in
fragmented oak savanna along the central Minnesota River valley. *American Midland
Naturalist* 161:301-312.

Kittelson, P.M., M. Paulson Priebe* and P. Graeve* 2008. Ant diversity in two southern Minnesota
tallgrass prairie restoration sites. *Journal of the Iowa Academy of Science* 115: 28-32.

Kittelson, P.M., J.L. Maron and M. Marler. 2008. An invader differentially affects leaf
physiology of two natives across a gradient in diversity. *Ecology* 89: 1344-1351.

Eckberg, J.*, E. Bockman* and P. Kittelson. 2007. Adding nitrogen controls invasive yellow
sweetclover, *Melilotus officinalis*. *Ecological Restoration* 25: 279-281.

Kittelson, P. and S. Handler*. 2006. Genetic diversity in isolated patches of the tallgrass prairie
forb, *Lithospermum canescens*. *Journal of the Torrey Botanical Society* 133: 513-518.

Kittelson, P. M. 2004. Sources of variation in insect density on *Lupinus arboreus* populations:
effects of environment and plant genotype. *American Midland Naturalist* 152: 323-335.

Adler, L. and P. M. Kittelson. 2004. Variation in *Lupinus arboreus* alkaloid profiles and relationships with multiple herbivores. *Biochemical Systematics & Ecology* 32: 371-390.

Kittelson, P., C. Pastor, P. Graeve*, A. Anderson*, D. Boll*, E. Dahlquist*, J. Eckberg*, L. Kempema*, M. Maley*, M. Panzer*, M. Paulson*, L. Smart*, S. Tuel*, E. Wenger*, J. West*. 2002. Exploring natural history using U.C. natural reserves. *Transect* 20: 12-15.

Kittelson, P. M. and J.L. Maron. 2001. Fine-scale genetically-based differentiation of life-history traits in the perennial shrub *Lupinus arboreus*. *Evolution* 55: 2429-2438.

Kittelson, P. M. and J. L. Maron. 2000. Outcrossing rate and inbreeding depression in yellow bush lupine, *Lupinus arboreus* (Fabaceae). *American Journal of Botany* 87: 652-660.

Karban, R. and P. M. Kittelson. 1999. Effects of *Lupinus arboreus* genetic structure and previous herbivory on *Platyrepia virginialis* caterpillars. *Oecologia* 120: 268-273.

Kittelson, P. M. and M. J. Boyd. 1997. Mechanisms of expansion for an introduced species of cordgrass, *Spartina densiflora*, in Humboldt Bay, CA. *Estuaries* 20: 770-778.

UNDERGRADUATE STUDENT-MENTORED RESEARCH All listed are Gustavus students unless noted

Lila Beck ('22). How bison grazing affects tallgrass prairie abundance and diversity. Honors Thesis. Current: Forestry, City of Eden Prairie and University of Maine Forestry Program.

Collin Carlson ('22). Effect of wet and dry cycles on dissolved organic carbon cycling in peatland systems. Honors Thesis. Bureau of Land Management. M.S. candidate, U of Washington.

Collin Carlson ('21). Orchid tissue culture to enhance greenhouse collections. Collin also initiated a QR code project for the greenhouse collection. SHUR grant.

Jeremy Gilbertson ('20). Does sheep grazing enhance plant diversity on solar array prairie restorations? Honors Thesis. Environmental monitoring and consultancies.

Brooke Bernhardt ('20). Effects of Two Mycorrhizal Strains on Drought Tolerance in Leeks. SHUR grant. In collaboration with Amy Kocksiek. Plant Ecology PhD candidate at U of Kansas.

Riley Thoen ('19). Do photosynthetic rates explain compensation or herbivore tolerance? SHUR grant 2017. Senior Honors Thesis. U. of Georgia – PhD candidate in Ecology.

James Eckhardt ('17). Proteomic analysis of the carnivorous plant *Nepenthes*' upper and lower pitchers. Independent Study, Sigma Xi Award 2017. U.C. Riverside Plant Biology PhD.

Zach Rehnelt ('16) and Reina Nielsen ('16). Long-term census of a recreated tallgrass prairie. Zach is in the U.S. Navy. Reina earned a M.A. in Plant Ecology from John Carroll University and works as a senior continuing faculty member at Gustavus.

Reina Nielsen ('16) and Mike Howe ('14). How do herbivory and physiological traits of *Echinacea angustifolia* vary with genotype, and ultimately influence plant fitness?

Mike Howe ('14). Linking demography with factors that influence reproduction, establishment and persistence in tallgrass prairie. 2012-2014. Ph.D. Entomology UW-Madison. Professor, Utah State.

Mary Patterson ('14). An ecological assessment of a restored tallgrass prairie in southern MN: vegetation establishment, cover, invasive species and management recommendations. 2012-2013. Mary works for the BLM in plant conservation and ecology.

Amy Loreen ('12), Laura Lynch ('09) and Donald Davis ('11). Evolutionary ecology of life history strategies in *Lomatium macrocarpum* and *Arabis fecunda*. 2008-2010.

Laura is a MD (UWisconsin); Amy is a MD (U.Washington); Donald was a biology major.

Sarah LaFont (U Montana), Clarice Pena (U Montana), Chris Pinahs ('07). Effects of species and functional richness on native and invasive species in Montana grasslands. 2005-2007.

Archer, Althea ('07). Feasibility proposal to restore agricultural land to tall grass prairie. Her study led to the establishment of the 70-acre Coneflower Prairie, expanding the Gustavus Arboretum.

PhD. Auburn University. Professor. USGS.

Dwyer, J., A. Ingersoll, E. Mans and J. Rieke. *Quercus macrocarpa* genetic diversity. 2004-05.

Josh is a high school science teacher, Angela works as a lab tech, Elaine is a chiropractor (St. Catherine) and Jenn is an optometrist (Pacific University)

Pinahs, C., B. Rutman and M. Volenec. Age-structure of *Quercus macrocarpa* woodlands.

Brady is a landscape architect (UMN) and Matt works as a lab tech.

Chris Pinahs. Burns alter competition between native and non-native grasses. Sigma Xi 2004.

Chris has a MA in conservation ecology and a JD from UMN, and practices patent law.

Stephen Handler. Genetic diversity in fragmented populations. 2003.

MA in conservation and restoration (UMT) and is a Climate Scientist for the Forest Service.

Emily Helliwell. Germination of leadplant, *Amorpha canescens*. Sigma Xi award. 2003-04.

MA in Plant Pathology (Purdue) and PhD in Plant Biology (Penn State).

Jim Eckberg awarded national Udall Scholarship for excellence in environmental research.

Investigated frog diversity in restored wetlands. Sigma Xi award. 2001-02.

MA in ecology (UNL) and PhD (UMN). Research Scientist.

Beth Bockman & Jim Eckberg. Effects of nitrate on *M. officianalis*. Sigma Xi award. 02-04.

Beth is a high school science teacher (MAT UMN).

Phil Graeve & Monica Paulson. Ant diversity in restored prairies. Sigma Xi award. 2002-03.

Phil. MS in ecological restoration (Colorado State). USDA Forest Service.

Monica (MA, Environmental Policy; PhD Plant Conservation, Indiana). Professor.

Nicole Barondeau, Leslie Brandt, Jim Eckberg, Phil Graeve, Amber Krahmer, Virginia Lindgren
Monica Paulson. Forb diversity in restored prairies. Sigma Xi (2001), NCUR(2002), ESA
(2002). Nicole: lab tech, Amber: veterinarian, Leslie: PhD (UMN) works as Director for EPA.

Independent study classes that resulted in external presentations:

Pat Gaetz –Comparison of PT and yoga therapies for improving wellness (2010); PT
Lydia Davitt – Turmeric, beyond a spice of life (2008); Teacher
Ben Batz. Global Community Development; Teacher and Community Engagement

RESEARCH GRANTS AND AWARDS Authors denoted with * were undergraduates at Gustavus

Matthias Wahlstrom Lecture on the Liberal Arts. 2023. Invited Honorary Lecture. Gustavus.

Edgar M. Carlson Award for Distinguished Teaching. 2017. Gustavus Adolphus College.

NSF Research Experience for Undergraduate Site Award. 2017, 2019. Wrote Gustavus REU
proposal sponsoring 10 undergraduate summer research experiences. Students would explore
“Persistence, Resilience and Disturbance in Systems: PRaDiS” Gustavus Adolphus College.
Declined twice with 4 excellent→1 very good reviews. \$258,017, \$272,088.

Minnesota Department of Natural Resources. Gustavus students were funded to be surveillance
monitors for chronic wasting disease in white-tailed deer. Nov. 2017. \$16,922.

Environmental Studies Grant. Long-term census of a restored prairie. 2014 \$1,600. 2015 \$2,050.
Stipends for Zach Rehnelt* and Reina Nielsen*

NSF Research Opportunity Award with Ruth Shaw (UMN) and Stuart Wagenius (Chicago Botanic
Garden) 2013. \$25,000.

Research question: How do herbivory and physiological traits of *Echinacea angustifolia* vary with
genotype, and ultimately influence plant fitness?

- Allowed Mike Howe* and Reina Nielsen* to pursue summer research

LEEF (LiCor Environmental Education Fund) matching grant (\$52,120) to obtain a Li-Cor 6400
ecophysiology instrument for use in biology and ES courses and research. 2013.

First Year Research Experience. Reina Nielsen* \$1,500 + summer stipend to Reina Nielsen.

Presidential Faculty/Student Collaboration and Publication Grant. Mike Howe* 2012. \$8,000.

Margaret Cargill Faculty Student Research in ES. Co-author: Mary Patterson* 2012. \$8,000.

Research, Scholarship and Creativity Grants. Gustavus Adolphus College. 2008

Alteration of first flowering date in 34 perennials and its relationship to climate. \$2,200.

Kenan Fellowship for College Professors. National Tropical Botanical Garden, Fl. 2007.

NSF Research Opportunity Award with John Maron, University of Montana. 2005-06 \$19,000
Research objective: To determine the impact of invasive species on native species; how impact changes as a function of water availability, species richness & invader identity.
- Allowed Chris Pinahs* to pursue research at U. Montana in January 2006.
- Supervised two U. Montana undergraduates; hired two others as field & lab assistants

Research, Scholarship and Creativity Grants. Gustavus Adolphus College. 2008
Impact of the three invasive species on growth and physiology of four species native to the intermountain west. \$2,200.

Honoree, Gustavus “Night of Distinction for Influential Professors/Mentors” 2002, 2004, 2009.

Faculty collaboration grant. 2004. Co-authors: Leila Brammer and Joyce Sutphen. \$17,500.
Truth, virtue and beauty in vocation and the liberal arts.

TechBridge Program. Information Technology. Gustavus courses and website. 2004. \$1,000.

Maedl Faculty-Student Research Award. 2003. Co-author Stephen Handler*. \$3,850.
Genetic diversity within and among fragmented populations of *Lithospermum canescens*.

Li-Cor Biosciences Undergraduate Training Award. 2002. With: Colleen Jacks, Jeff Dahlseid.
Awarded DNA sequencer for student-faculty research and teaching. \$60,000.

Research, Scholarship and Creativity Grant. Gustavus. 2002. \$2,200.
Genetic diversity of tallgrass prairie populations of Leadplant (*Amorpha canescens*).

Lilly Endowment. 2002, 2003.
Funded J-term wilderness experiences for 13 students per year. \$13,000/yr

Teaching and Learning mini-grant. 2002. \$1,000. Developed molecular ecology curriculum.

Rockefeller Brothers Fund, Environmental Studies. 2001. Funded faculty-student research:
J.Eckberg*, P. Graeve*, and M. Paulson*. \$16,000. Forb diversity compared within and among three Minnesota prairie restoration sites.

Research, Scholarship and Creativity Grant. 2000. Prairie forb diversity. \$2,200.
Does burning or mowing increase forb diversity in restoration prairies?

NSF Graduate Research Traineeship in Ecology. UC Davis. 1998-99. \$15,000.

PRESENTATIONS * denotes undergraduate students at Gustavus

Kittelson, P. 2022. Write On! Using non-fiction to build science writing and comprehension.
Botanical Society of America. Anchorage, Alaska.

Kittelson, P. 2018. Diversity in fragmented populations. Ecological Society of America, Portland.

Kittelson, P. and R. Nielsen*. 2014. Interactions between functional traits, herbivory and genetic diversity in fragmented populations of *Echinacea*. Botanical Society of America (BSA), Boise.

Kittelson, P., M. Patterson* and M. Howe*. 2013. An ecological assessment of a recreated tallgrass prairie in south central Minnesota. Ecological Society of America (ESA), Minneapolis.

Kittelson, P. and P. Lesica. 2011. Can climate alter flowering phenology? BSA, St. Louis.

Kittelson, P. and P. Lesica. 2010. Advanced flowering phenology is associated with change in precipitation and temperature. ESA, Pittsburg

Handler, S.* and P.M. Kittelson. 2004. Genetic diversity in *Lithospermum canescens*. ESA

Bockman, E.*, J. Eckberg* and P. Kittelson. 2004. Effects of nitrate on *Melilotus officinalis*. ESA

Eckberg, J.*, P. Graeve*, M. Paulson* and P.M. Kittelson. 2002. Controlling invasive clover. ESA

Eckberg, J.* and P. M. Kittelson. 2002. Forb diversity in restored prairie communities. ESA

Kittelson, P.M. and J. L. Maron 2000. Genetic differentiation in perennial yellow bush lupine. ESA

Simms, E. L., P. Kittelson and J. L. Maron. 2000. Variation in seed dormancy. ESA

INVITED OR OTHER PRESENTATIONS, PUBLICATIONS OR WORKSHOPS

Midstates Consortium Math and Science. Midcareer Workshop. Developer, Facilitator. 2023. 2026.

Twinflower. Gustavus Arboretum Newsletter Articles.

2023. "If You Build It Will They Come? Recreating Biomes"

2021. "How Plants Tell Time"

2020. "Bluebird Natural History and Conservation"

2019. "Botanical Benefits of a Reciprocal Garden Pass"

2012. "Summer of Grass" in collaboration with Mary Patterson*

Gustavus Advising Day Workshops

2025. Fellowships: Funding your Dreams.

Funding Work Abroad After Graduation: The Fulbright Program

2024. Fellowships: Funding your Dreams.

Tips on Writing Scholarship Personal Statements

2021. Advising for Nationally Competitive Scholarships. Faculty

Soup and Sandwich Seminar. 2019. Friends of the Arboretum. *Ode to Open Spaces and Habitat*.

Linnaeus Symposium 2016. *Shining Light on Minnesota's Changing Landscape: Grasslands*.

Gustavus Shoptalk Series.

2015. *Global Change: Effects of Habitat Fragmentation*.

2011. *Early Bloomers: can climate alter flowering time?*

2007. *An invader differentially alters grassland physiology across a diversity gradient.*

2001. *Evolutionary ecology of *Lupinus arboreus* interacts with grassland ecology.*

Pastor to Pastor Series Science and Theology: *Human Limits and Genetic Control*. Gustavus. 2011.

Keynote Speaker at Guild of St. Lucia's Induction Ceremony. Gustavus. 2011.

Teachers Talking. Gustavus.

Technology: Encouraging student research by writing for Wikipedia. 2011

Interdisciplinary Programs. 2010.

Methods of enhancing student writing skills; building a step-wise assignment. 2003.

Building student research skills via course writing assignments 2001.

New Faculty Mentoring Program. 2010. *Navigating departmental relationships*.

2007. *Strategies in large classes*.

Faculty Development Day. Gustavus. *(Re)Using sources wisely: helping students integrate information accurately and independently*. September 2010.

Vocation retreat. Gustavus. *Study abroad, experiential learning courses and vocation*. June 2010.

National Tropical Botanical Garden. Kampong, Florida. *Infusing botany into curricula*. 2008.

Continuing Education Series, City of St. Peter, 2007. *Aliens from the planet Earth*.

National Science Foundation Outreach, Missoula. 2006. *Invaders change grassland mycorrhizae*.

University of Montana. 2006. *Patterns in phloem transport and plant ecology*.

Center for Vocational Reflection, Gustavus. 2005. *Beauty and truth in vocation*.

Pacific University. 2005. *Student-faculty collaborative research in plant ecology*.

Doñana Biological Station seminar, Seville, Spain. 2005. *Evolution of *Lupinus arboreus* life history*.

University of Nebraska, Lincoln. Biology Seminar series. 2004. **Lupinus arboreus* life history*.

Colorado State University, Pueblo. Biology seminar. 2004. **Lupinus arboreus* life history traits*.

Environmental Studies Senior Seminar. 2001. *Biogeography of the MN River Valley*.

Introduction to Environmental Studies. 2002, 2001. *Costs and benefits of GMOs*.

Chapel Homilies. 2010 *Fear not*. 2000 *Environmental stewardship: Caring for creation*.

SERVICE AT GUSTAVUS

Midstates Consortium of Math and Science Campus Representative (2023-2024)

Biology Department Program Assessment Liaison (2020-2023)

Research, Scholarship and Creativity Advisory Group (2020-2023)

South Mall Redevelopment Task Force (2022-2023)

Granlund Linnaeus Sculpture Task Force (2022-2023)

Biology Department Co-chair with Y. Kawarasaki (2022-23) J. Grinnell (2006-2010); 12-13.5 FTE

- completed department strategic plan; assessment; curriculum review
- organized semester class and lab schedules; 40-50 sections/semester
- observed and evaluated faculty and staff; wrote performance reviews (n~7/yr)
- managed budget; developed weekly agenda; facilitated meetings; follow-up
- led searches and interviews (n ~ 2/yr); reviewed course proposals
- defined rights and responsibilities of Continuing Instructors

Biology Department (1999- present)

Advisees (20- 45/yr; currently n=17) in Biology, Environmental Studies, Life Science Ed
Advising Day Representative (2023- present) Petitions Committee (2015-present) Greenhouse
Advisor (1999-2021)

Environmental Studies (1999 – 2024)

Coneflower Prairie Restoration Committee 70-acre addition to Linnaeus Arboretum. 2007-09.
Search committee for E.S. tenure-track position (2002; 2022; 2023). Sustainability Center
Director (2006) Reviewer for Rockefeller Brothers Fund faculty-student research grants (2001)

Writing Program Advisory Committee (WPAC; 2011-2013, 2014-2019)

Biology Department Liaison for Nobel Hall of Science renovation and expansion (2018-2019)

Admissions Office

Scholarship Days Interviewer. 2005, 2007-2010, 2014, 2015, 2017-2021, 2022.
Speaker or host at many Admissions events (Explore Gustavus, Senior Day, etc). 1999-present.

Faculty Review Committee (2016-2019)

Faculty Mentor for first-year faculty

Laura Hildreth, Statistics and Management. 2019-2023.
Jessica Stadick, Nursing 2014-2016.
Lauren Hecht – Psychology. 2010-2011
Anna Versluis – Geography. 2008-2009
Sarah Johnson Ruble – Religion. 2007-2009.

Nobel Conference

2018 'Soil: the Universe Underfoot.' Host: Suzanne Simard, U. British Columbia.

2012 'Our Global Oceans' Hosted: Barbara Block, Hopkins Marine Laboratory

2010 'Making Food Good' Hosted: Cary Fowler, Global Crop Diversity Trust

2003 'The Story of Life' planning group. Hosted: Sean Carroll, UW Madison

Consult on management of tallgrass prairie at Linnaeus Arboretum (1999-2018)

Kendall Center for Engaged Learning - Associate for New Faculty Programs (2015-2018)

Faculty Leader & Panelist at Midstates Consortium for Math and Science URS (2015, 2018, 2023).

Geography Department Co-Chair with Jeff La Frenierre (2015-2016); 4 FTE

Institutional Learning Objectives (ISLO) Assessment on Cognitive Practice (2015-16)

Faculty Advisor for First-year Student Orientation 2000, 2002, 2005, 2010, 2016.

Faculty Development Committee (2014-15)

Fellowship, Undergraduate Research and Creativity Working Group (2012-2013)

Coordinator of the Peer Mentoring Program - Howard Hughes Medical Institute Grant (2010-2012)

Third Year Review Committee - Evaluation Committee Chair (2010-2013)

External Department Reviewer for faculty.

Romina Peña-Pincheira (4th year review, Education), Amy Kochsiek (SCF, Biology and EGE), Joaquin Villanueva (Tenure and Promotion, Geography), Amanda Nienow (Promotion, Chemistry), Jessica Imholte (SCF, Chemistry), Kiki Harbitz (SCF, Health and Exercise Science), Becky Fremo (Promotion, English), Dave Stamps (TYR, Music), Patricia Reeder (TYR, Psychological Sciences), Blake Couey (FYR, Religion), Jessica Stadick (TYR, Nursing), Sarah Johnson Ruble (FYR)

Faculty Director Social Justice, Peace and Development semester in India. Sep-Dec. 2009.

HECUA. Development and Community in Bangladesh. Jan 2013

- ensured experiential learning environment and well-being of students abroad; managed budget and logistics

Personnel Committee (2007-09)

- reviewed materials, observe and interview tenure or promotion candidates
- participated in deliberations and vote on tenure or promotion

Faculty Committee on Student Life (2003 – 2005)

Academic Operations Committee (2000-2002)

Faculty panelist for Graduate School Panel (2000-2002, 2007-2009).

Faculty Facilitator – Gustavus Outdoor Leadership Initiative. Everglades. 2008.
- Co-led one week backcountry canoe trip for first year and sophomores
- Designed curriculum to build leadership skills; selected students

Linnaeus at 300. Faculty host for Paul Alan Cox, Institute of Ethnomedicine. 2007.

Faculty Leader - Boundary Waters Canoe Area Wilderness trip. First-year Orientation. 2004.

Sigma Xi – (1999 – 2007). Secretary 2000-01 Organized Distinguished Lecture 2002

SERVICE OUTSIDE OF GUSTAVUS

Critical Language Scholarship Reviewer, U.S. Department of State. 2020, 2021, 2022. 2024.

National Science Foundation Grant Panelist. 2019.

Manuscript Reviewer for *American Journal of Botany*, *Ecology*, *Evolution*, *Molecular Ecology*, *Plant Ecology*, and *Native Plants Journal*.

Preparing Leaders and Nurturing Tomorrow's Scientists (PLANTS) Mentor. Botanical Society of America. Faculty mentor to under-represented graduate students in botany. 2015, 2018, 2022.

Minnesota Department of Natural Resources Commissioner's Advisory Committee. 2003-2008.
Provided recommendations on natural area protection, research and management to DNR.

Camp Eureka, Montana Conservation Science. Environmental ed. for blind children. 2006. 2007.

Montana Native Plant Society, Co-organized Annual Meeting at Wall Creek WMA, Ennis. 2006.

Johnson Family Wetlands Restoration, Monitoring and Management Committee. 2002- 2004.
Consultant for 250-acre restored wetland; determined burn cycle, selected seeds, monitored.

Mentor to Mark Norris. Center for Teaching & Learning U. MN. Preparing Future Faculty. 2003.

U.C.T.V., "State of Minds." 2002-03 Promoted UC Natural Reserves for teaching and research.

The Nature Conservancy. Ottawa Bluffs. Volunteer & encourage student service. 2000 – 2006.

Minnesota Academy of Sciences. Organized *Ecosystem Ecology, Change & Restoration*. 2000.

CURRICULAR MATERIALS

Elias, Kawarasaki, Kochsiek and Kittelson. Bio101 lab manual. 2000-2023.

Kittelson, Elias and Grinnell. Bio 202 Evolution, Ecology, Behavior lab manual. 2000-2024.

Kittelson, P. M. Ecology laboratory and discussion manual. 2000-2022.

Kittelson, P. M. Portfolio Project in Horticulture. 2007, 2009, 2011.

Kittelson, P.M. and J. Biederman. Bio100, Biodiversity lab manual. 2003-2006.

Kittelson, P. M. Plant Physiology laboratory and writing in the discipline manual. 2001-2023.

PARTICIPANT AT WORKSHOPS AND CONTINUING EDUCATION

National Association of Fellowship Advisors Annual Conference. 2021. 2019

Mentoring Across Age and Stage. Kendall Center. 2020-21.

Purposeful Advising. Kendall Center. 2017.

Computation and Visualization Workshop. July 2014. R Studio statistics for large datasets.

Midstates Consortium for Science and Math. February 2011. Mid-Career Workshop.

Teagle Foundation Grant. 2010. High Impact Pedagogy.

ELCA – World Hunger Workshop. Bemus Point, New York. 2010. Developed educational toolkits that allow congregations or educators to explore the intersections of hunger and water.

Leadership, student learning and institutional transformation. 2007. Project Kaleidoscope.

Workshop for Department Chairs. 2007. Council for Independent Colleges. North Carolina.

Retaining Diverse Students. 2006. Deep Learning. 2007. The Collaboration Conference.

Botanical Illustration. 2006. Montana Natural History Center, Missoula, MT.

Quantitative Reasoning across the Curriculum. 2004. Pew Conference.

Service Learning for Social Justice. Cuba. 2004.

University of Florida Interdisciplinary Center for Biotechnology. 2002. AFLP workshop.

Lilly Endowment. 2001. Developed courses that enhance sense of vocation for students.

PROFESSIONAL AFFILIATIONS

National Association of Fellowship Advisors

Botanical Society of America

Ecological Society of America (past)

Sigma Xi (past)

American Society of Plant Biologists (past)

