

John Francis McLaughlin

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EDUCATION

Stanford University, Stanford, California, 1984-1990

Ph.D. in Biological Sciences, 1990, Area of Specialization: Population Biology.

M.S. in Biological Sciences, 1987.

Northwestern University, Evanston, Illinois, 1980-1984

B.A. in (1) Biological Sciences, concentration in Ecology and Evolutionary Biology.

(2) Biochemistry, Molecular Biology and Cell Biology, with honors.

(3) Integrated Science Program, with honors.

AWARDS AND HONORS

Sigma Xi (Scientific Research Society) 1997.

Hollaender Postdoctoral Fellowship (US D.O.E.), 1990-1991.

ARCS Foundation Fellowship, 1988-1989.

National Science Foundation Graduate Fellowship, 1984-1987.

Andrew Mellon Foundation Graduate Research Fellowship, 1985.

Phi Beta Kappa, 1984.

PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Environmental Sciences, Huxley College of the Environment,
Western Washington University, 1996-present.

Adjunct Assistant Professor, Department of Forest Resources, Utah State University, 1994-1996.

Instructor, Wildlands Studies Program, San Francisco State University, summers: 1994-1996.

Director of Research, Teton Science School, Kelly, WY, 1994-1995.

Postdoctoral Fellow, Center for Conservation Biology, Stanford University, 1991-1994.

Postdoctoral Fellow, Environmental Sciences Division, Oak Ridge National Laboratory, 1990-91.

Instructor, Outdoor Education Program, Stanford University, 1987-1989, 1991-1994.

Teaching Assistant, Department of Biological Sciences, Stanford University, 1985-1987.

Laboratory Instructor, Science Department, Kendall College, Evanston, IL, 1983-1984.

RESEARCH EXPERIENCE

Department of Environmental Sciences, Huxley College, Western Washington University, 1996–present.

Analyzed role of climate change, habitat loss, and other factors in extinctions of Bay checkerspot butterfly populations. Collaboration with Ehrlich group at Stanford University.

Determined effects of habitat structure on dynamics of Bay checkerspot butterfly populations.

Derived mechanistic hypotheses from field data, and tested the hypotheses using nonlinear modeling with deterministic and stochastic variables.

Collaboration with Ehrlich group at Stanford University.

Developed method to quantify environmental sustainability and to predict whether it will occur under a given management program. Method applies spatially-explicit stochastic modeling.

Collaboration with W. Landis (WWU).

Forest carnivore surveys in North Cascades, WA. Field sampling using sooted track plates, following Zielinski's protocol, a national standard. Data included in WA state carnivore database.

Analysis of American marten distribution in WA state at local- and landscape-scales.

Project in progress; collaboration with D. Wallin (WWU) and S. Heideman (WWU grad student).

Evaluation of grizzly bear habitat in North Cascades Recovery Zone. Applies mechanistic model of individual bears in spatially explicit and seasonally variable landscape.

Project in progress; collaboration with P. Horne (WWU grad student).

Analysis of avian distributions and habitat relationships throughout North Cascades National Park Service Complex. Field sampling, data analysis, and spatial modeling.

Project in progress; collaboration with R. Kuntz (National Park Service), R. Siegel (Institute for Bird Populations), and E. Curtis (WWU grad student).

Analysis of dynamics and stability of n -level food chains in spatially heterogeneous environments.

Approximate solutions for system of nonlinear partial differential equations with heterogeneous coefficients. Project in progress.

Utah State University, San Francisco State University, and Teton Science School 1994–1996.

Projects on wildlife responses to landscape patterns of natural and anthropogenic origin.

Study areas included sites in the Greater Yellowstone and Greater North Cascades Ecosystems.

Mammal responses to landscape pattern:

Field study of responses to avalanches, fires, landslides, and timber harvests.

Effects of wildfire on bird populations:

Field study of avian productivity, survival, abundance, and species diversity.

Conducted censuses, operated mist nets, and measured habitat structure at ten riparian sites adjacent to areas that burned in 1988 and 1994.

Data contributed to national program on Monitoring Avian Productivity and Survival.

Postdoctoral Research: Center for Conservation Biology, Stanford University, 1991–1994.

Analyzed population dynamics of the threatened Bay checkerspot butterfly.

Developed method to measure habitat suitability for populations of threatened invertebrates.

Developed process for managing long-term population data.

Developed software to analyze mark-recapture data from open populations.

Coordinated development of Geographic Information System (UNIX workstation ARC/INFO).
(research advisor: Dr. Paul R. Ehrlich)

RESEARCH EXPERIENCE (continued)

Postdoctoral Research: Environmental Sciences Division, Oak Ridge National Laboratory, 1990–91.

Developed a quantitative theory of hierarchical structure in ecological communities.
Analyzed how ecological communities reflect environmental heterogeneity at different scales.
Determined relationship between species distributions and distances over which they interact.
(research advisor: Dr. Robert V. O'Neill)

Graduate Research: Department of Biological Sciences, Stanford University, 1984–1989.

Field study of the impact of avian predation on *Anolis* lizards in the eastern Caribbean.
Showed that predation pressure varies widely between islands, depending on scale of predator habitat use.
Theoretical analysis of predator-prey interactions in environments with one or more scales of spatial heterogeneity. Analytical and numerical work showed that species interactions can sharpen underlying environmental patterns and that environmental heterogeneity can stabilize predator-prey interactions.
(research advisor: Dr. Joan Roughgarden)

Undergraduate Honors Research: Department of Biochemistry, Molecular & Cell Biology, Northwestern University, 1982–1984.

Investigation of primary events of bacterial photosynthesis.
Isolation and spectral analysis of photosynthetic reaction centers.
(research advisor: Dr. Paul A. Loach)

Undergraduate Summer Research: Celanese Corporation, Summit, New Jersey, 1981.

Organometallic catalysis research. Preparation of catalysts, chemical characterization of reaction products, mathematical analysis of data.
(research advisor: Dr. Kenneth M. Nicholas)

FUNDED PROPOSALS

Kuntz, R. C. II, **J. F. McLaughlin**, R. B. Siegel, and E. Curtis. 2000. Avian distributions and habitat relationships across North Cascades National Park Service Complex. Proposal to Wildlife Research Program, Seattle City Light. Project total: \$43,070.00; WWU portion: \$25,260.00. Additional project funds from NPS sources.

Braaten, A. and **J. McLaughlin**. 1999. Grizzly bear habitat analysis, North Cascades National Park Service Complex. Proposal to National Park Service GIS Program. Project total: \$10,000.00; WWU portion: \$10,000.00.

McLaughlin, J. F. 1997. Ecology and conservation of carnivore populations. BFR Summer Research Grant, Western Washington University. \$5000.

McLaughlin, J. F. 1997. Forest carnivore surveys. BFR Grant-in-aid, Western Washington University. \$1200.

Ehrlich, P. R., **J. F. McLaughlin**, P. M. Rich, S. B. Weiss, K. Switky, and D. D. Murphy. 1991. GIS research for ecosystem and species conservation. Proposal to Education and Research Marketing Grant Program, Sun Microsystems, Inc. \$37,775.00.

TEACHING EXPERIENCE

- Population Biology*, Huxley College, Western Washington University, winter 1997 – 2002.
Graduate and undergraduate course and laboratory.
- Environmental Stewardship*, Huxley College, Western Washington University, winter 1999, fall 1999. Undergraduate capstone course, co-taught with Wendy Walker.
Student teams develop solutions to practical environmental issues in field settings.
- Field Methods in Vertebrate Ecology*, Huxley College, Western Washington University, spring 1998 – 2001. Undergraduate field course, including student research projects.
- Ecological Modeling and Deduction*, Huxley College, Western Washington University, fall 2000. Graduate and undergraduate seminar.
- Carnivore Ecology and Conservation*, Huxley College, Western Washington University, fall 1998, 1999, 2001. Graduate and undergraduate seminar.
- Spatial Heterogeneity in Ecological Systems*, Huxley College, Western Washington University, winter 1997. Graduate and undergraduate seminar.
- Conservation of Biological Diversity*, Huxley College, Western Washington University, fall 1996, 1997, 1998, 2000, 2001; spring 2000. Graduate and undergraduate course.
Lectures, discussions, field trips, and student projects.
- Fundamentals of Ecology*, Huxley College, Western Washington University, spring 1997, winter 1998, 2000, 2001, 2002. Undergraduate course, with field trips.
- Biostatistical Analysis*, Huxley College, Western Washington University, spring 1997 – 1999, 2001.
Undergraduate course and laboratory; with demonstrations, field projects, and computer labs.
- Preserving Wildlife Communities*, San Francisco State University, summers 1994–1997.
Field research courses on wildlife ecology, conservation, and forest management.
Conducted as backcountry research expeditions in the North Cascades, WA.
Seminars, discussions, field research projects. Taught through the Wildlands Studies Program.
- Ecological Inquiry*, Teton Science School and Utah State University, autumn 1995.
Graduate level; lectures, discussions, museum study, field research projects.
- Wildlife Ecology*, Teton Science School and Utah State University, summer 1995.
Lectures, discussions, museum study, field research projects.
- Winter Ecology*, Teton Science School and Utah State University, winter 1995.
Graduate seminar; journal discussions, field trips, and field research projects.
- Winter Ecology*, Teton Science School and University of Wyoming, winter 1994–95.
Lectures, field trips, and field research projects; with Dr. James Halfpenny.
- Teacher Workshops*, Teton Science School, 1995.
Lectures, discussions, field study, model research projects; for in-service teachers.
"Winter Ecology," March 1995. "Letting Nature Teach," August 1995.
- Environmental Writing*, Teton Science School and Utah State University, winter 1995.
Graduate seminar on creative and scientific writing; with Tim Palmer and Ann Vilieisis.
- Ecology of the Northern Rockies*, Teton Science School and Utah State University, autumn 1994.
Graduate level; lectures, discussions, field trips, and field research projects.
- Ecology and Conservation of Mammals*, Stanford University, winter 1994.
Lectures, discussions, field trips, computer models, and student research projects.

TEACHING EXPERIENCE (continued)

Biology of Birds, Stanford University, spring 1987.

Lectures, field trips, and student research projects; with Dr. Paul R. Ehrlich.

Outdoor Education Program, Stanford University, 1987–1989, 1991–1994.

Lectures, discussions, and weekend outings; ecology, animal tracking, group dynamics, expedition planning, backcountry menu planning, off-trail navigation, wilderness survival, first aid, rock climbing, backcountry skiing, self-arrest; with team of Outdoor Education Program staff.

Introduction to Kayaking, Stanford University, spring 1992.

Boat handling, paddle strokes, eddy turns, Eskimo roll; with Stanford Kayak Club.

Systematics and Ecology of Vascular Plants, Stanford University, spring 1987.

Teaching Assistant for Dr. John Thomas; laboratory and field trips.

Core Biology Laboratory, Stanford University, spring 1985.

Teaching Assistant for ecology laboratory.

Chemistry Laboratory, Kendall College, Evanston, Illinois, 1983–1984.

Designed and taught laboratory in general chemistry, organic chemistry, and biochemistry

REVIEWER

The American Naturalist

Ecological Applications

Theoretical Population Biology

Conservation Biology

Journal of Field Ornithology

The Wilson Bulletin

PROFESSIONAL SOCIETIES

American Society of Naturalists

American Association for the Advancement of Science

Ecological Society of America

Institute for Bird Populations

Martes Working Group

Sigma Xi (Scientific Research Society)

Society for Conservation Biology

Wildlife Society, Washington Chapter

GRADUATE STUDENT ADVISEMENT (Western Washington University)

Thesis Advisor:

Kara Randall (graduated March 2001)

Thesis title: Spatial and temporal differences in bat activity in the Chuckanut Mountain area, Washington.

Peter Horne (graduation expected fall 2001)

Thesis title (tentative): An individual-based modeling approach for evaluating potential grizzly bear (*Ursus arctos horribilis*) habitat use in the North Cascades Grizzly Bear Recovery Zone.

Cindy Jackson

Thesis title (tentative): Lynx habitat selection in a mountainous, timber-harvested region at the southwestern extent of its geographic range.

Cliff Palmer

Thesis title (tentative): Effects of physical and hydrologic factors on distribution and habitat selection of the giant otter, *Pteronera brasiliensis*.

Edward Curtis

Thesis title (tentative): Avian distributions and habitat relationships in North Cascades National Park.

Shane Heideman

Thesis title (tentative): Habitat model for American marten (*Martes americana*) in Washington State using presence-absence data.

Graduate Committee Member:

Natalya Antonova (Geography; graduated Nov. 2000)

Bill Bernstein (Geography)

Jennifer Clough (MESP)

Sam Cushman (Environmental Science; graduated November 1997)

Jeff Duncan (Environmental Science)

Michelle Evans (Environmental Science)

Lise Grace (Environmental Science)

Chris Jones (Environmental Science; graduated July 2000)

Louis Macovsky (Environmental Science; graduated November 1998)

Peter McBride (Environmental Science; graduated May 2000)

Diane Randgaard (Environmental Science; graduated September 1998)

Nancy Renison (Biology)

Bill Richards (Environmental Science; graduated November 1998)

John Steffen (Biology; graduation expected fall 2001)

Jill Thomas (Environmental Science; graduated June 2001)

David Waltz (Biology; graduation expected fall 2001)

ACADEMIC SERVICE

- Graduate Program Committee, Department of Environmental Sciences, Huxley College, Western Washington University; member, 1999–2001.
- Graduate Program Development Committee; *Applied Ecology and Conservation Biology*; Huxley College–Biology Department, Western Washington University; member, 1999–2001.
- Graduate Program Development Committee; *Environmental Education*; Huxley College–North Cascades Institute; member, 1999–2000.
- University Committee on the Liberal Arts, Western Washington University; member, 1999–2000.
- Senate Library Committee, Western Washington University; member, 1999–2000.
- Canyon Lake Creek Scientific Oversight Committee, Western Washington University; member, 1999–2000.
- Bylaws Committee, Huxley College, Western Washington University; member, 1999–2000.
- Ad-hoc Committee on Huxley College Organization, Huxley College, Western Washington University, member, 2000.
- Environmental Studies Journal Club, Huxley College, Western Washington University; organizer, 1999–2000.
- Academic Technology Committee, Huxley College, Western Washington University; member, 1996–1999, 2001.
- Spatial Analysis Lab Committee, Huxley College, Western Washington University; member, 1997–1999.
- Curator, Murie Museum, Teton Science School; 1994–1995.
Oversaw collection of bird and mammal skins, skulls, scats, and track casts.
- Advisor, graduate and undergraduate research projects, Teton Science School, 1994–1995.
- Curriculum development, Teton Science School, autumn 1994–1995.
Worked with team of faculty to create and refine graduate program in natural science and environmental education. Program design, integration, and evaluation.
- Director, Robin Lange Field Station, Teton Science School, summer 1995.
Directed operations, erection, and dismantling of wall-tent camp used as base for field research.
- Organized Teton Science School journal club, 1994–1995.
- Guest Instructor: Jasper Ridge Biological Preserve Docent Training Program, Stanford University. 1992, 1994: mammals; 1989: animal tracking.
- Organized Center for Conservation Biology Discussion Series, Stanford University, 1991–1992.
- Co-organized Seminar Series in Spatial Ecology, Oak Ridge National Laboratory, 1991.
- Botanical tour of Stanford campus for organizers of Native American student orientation, 1989.
Emphasis on traditional uses of plants.

COMMUNITY SERVICE

North Cascades Audubon Society, November meeting, 27 November 2001.

Invited presentation on forest carnivore research and conservation.

Northwest Wildlife Forum, Bellingham, WA, 3 May 2001.

Invited panel presentation on ecology and conservation of forest carnivores.

Landbird Monitoring Program Workshop, North Cascades NPS Complex, Baker Lake Lodge, WA, 12-13 September 2000. Participated in workshop to develop general plan for monitoring avian populations in Northwest National Parks. In advance of workshop, analyzed Breeding Bird Survey time series data from North Cascades National Park.

Whatcom Bird Group, Bellingham, WA, 21 April 1999.

Invited presentation on avian predation on *Anolis* lizards.

Bird Banding and Mist Netting, Connelly Creek Natural Area, Bellingham, 3 October 1998.

Field workshop for North Cascades Audubon Society, 3 Oct. 1998.

Washington Agriculture and Forestry Education Foundation: Environmental Issues Seminar, WWU, April 1997, April 1998. (organized by John Miles, Huxley College, WWU)

“Biological Diversity: What It Is and Why It’s Important.” Presentation and group discussion.

Olympic Peninsula Wildlife Conference, Port Angeles, WA, 27 September 1997.

Invited panelist, discussed wildlife issues on the Olympic Peninsula.

PUBLICATIONS: REFEREED JOURNALS

- McLaughlin, J. F.**, J. J. Hellmann, C. L. Boggs, and P. R. Ehrlich. Climate change hastens population extinctions. [submitted, *Nature*]
- McLaughlin, J. F.**, J. J. Hellmann, C. L. Boggs, and P. R. Ehrlich. The route to extinction: Population dynamics of a threatened butterfly. [accepted, *Oecologia*].
- Landis, W. G. and **J. F. McLaughlin**. 2000. Design criteria and derivation of indicators for ecological position, direction, and risk. *Environmental Toxicology and Chemistry* 19(4.2)98-104.
- McLaughlin, J. F.** and J. Roughgarden. 1992. Predation across spatial scales in heterogeneous environments, *Theoretical Population Biology* 41:277-299.
- McLaughlin, J. F.** and J. Roughgarden. 1991. Pattern and stability in predator-prey communities: How diffusion in spatially variable environments affects the Lotka-Volterra model, *Theoretical Population Biology* 40:148-172.
- McLaughlin, J. F.** and J. Roughgarden. 1989. Avian predation on *Anolis* lizards in the northeastern Caribbean: An inter-island contrast, *Ecology* 70:617-628.
- Ehrlich, P. R. and **J. F. McLaughlin**. 1988. Scrub Jay predation on starlings and swallows: Attack and interspecific defense, *Condor* 90:503-505.

PUBLICATIONS: REFEREED BOOK CHAPTERS

- Landis, W. G. and **J. F. McLaughlin**. *in press*. Establishing specifications of ecological indicators for the prediction of sustainability. in R. T. Lackey, J. F. Mount, and D. E. Rolston, eds. *Managing for Healthy Ecosystems*. University of California Press.
- McLaughlin, J. F.** and W. G. Landis. 2000. Effects of Environmental Contaminants in Spatially Structured Environments. in P. Albers, G. Heinz, and H. Ohlendorf, eds. *Environmental Contaminants and Terrestrial Vertebrates: Effects on Populations, Communities, and Ecosystems*. SETAC Press, Pensacola, FL.
- McLaughlin, J. F.** and J. Roughgarden. 1993. Species interactions in space, pp. 89–98 in R. Ricklefs and D. Schluter, eds., *Species Diversity in Ecological Communities: Historical and Geographical Perspectives*, University of Chicago Press, Chicago.

NON-REFEREED PUBLICATIONS

- Landis, W. G. and **J. F. McLaughlin**. 2001. If not recovery, then what? in *Environmental Toxicology and Risk Assessment: Science, Policy, and Standardization – Implications for Environmental Decisions: Tenth Volume STP 1403*. B. M. Greenburg, R. N. Hull, M. H. Roberts Jr. and R. W. Gensemer, Eds., American Society for Testing and Materials, ASTM, West Conshohocken, PA.
- Landis W. G., L. R. Bodensteiner, and **J. F. McLaughlin**. 1998. The relative rank risk model for regional-scale risk assessment and potential applications in freshwater and terrestrial systems, in *Risk Assessment of Environmental End Points*, Workshop Proceedings. University of Auckland, New Zealand, pp. 54-67.

NON-REFEREED PUBLICATIONS (continued)

- McLaughlin, J. F.** 1996. Review of *Monitoring Bird Populations by Point Counts* (Edited by C. J. Ralph, J. R. Sauer, and S. Droege), Gen. Tech. Rep. PSW-GTR-149, USDA-Forest Service. *Journal of Field Ornithology* 68:171-172.
- McLaughlin, J. F.**, editor. 1995. *Teton Science School Annual Research Report*, 1994.
- McLaughlin, J. F.** 1994. Reading between Nature's lines: The art and science of animal tracking. *Proceedings of the 1994 National Conference for Outdoor Leadership*, 17-20 February 1994, Chico, CA.
- McLaughlin, J. F.** 1993. What does theory have to do with conservation biology? *UPDATE* 6(2):10. (published by Center for Conservation Biology, Stanford University)
- McLaughlin, J. F.**, S. B. Weiss, P. M. Rich, and D. M. Debinski. 1992. Roles of GIS in conservation, *Proceedings of the Twelfth Annual ESRI User Conference*, 8–12 June 1992, Palm Springs, CA, pp.237-247.
- Rich, P. M., S. B. Weiss, D. M. Debinski, and **J. F. McLaughlin**. 1992. Physiographic inventory of a tropical reserve, *Proceedings of the Twelfth Annual ESRI User Conference*, 8–12 June 1992, Palm Springs, CA, pp.197-208.
- McLaughlin, J. F.** 1990. Spatial scale and heterogeneity in ecological communities: Theoretical analysis motivated by field studies from islands in the northeastern Caribbean. Ph.D. dissertation, Stanford University, Stanford, CA.

MANUSCRIPTS IN PREPARATION

- McLaughlin, J. F.** and W. G. Landis. Decision theory for environmental sustainability.
- McLaughlin, J. F.** Stability of food chains in heterogeneous environments. (for *Theoretical Population Biology*)
- Horne, P. and **J. F. McLaughlin**. Evaluating potential grizzly bear (*Ursus arctos horribilis*) habitat use in the North Cascades using individual-based modeling. (for *Ursus*)
- Hellmann, J. J., S. B. Weiss, **J. F. McLaughlin**, C. L. Boggs, P. R. Ehrlich, A. E. Launer, and D. D. Murphy. Death of a butterfly population: An analysis of a long-term data set. (for *Ecological Entomology*)
- Hellmann, J. J., S. B. Weiss, and **J. F. McLaughlin**. Structure and dynamics of Bay Area Edith's checkerspot populations. Chapter 3 in P. R. Ehrlich and I. Hanski, editors, *On the Wings of Butterflies: The Population Biology of Checkerspots*. Oxford University Press.
- Hanski, I., **J. F. McLaughlin**, and J. J. Hellmann. Checkerspots as model systems in population biology. Chapter 12 in P. R. Ehrlich and I. Hanski, editors, *On the Wings of Butterflies: The Population Biology of Checkerspots*. Oxford University Press.
- Hanski, I., P. R. Ehrlich, J. J. Hellmann, M. Nieminen, C. L. Boggs, A. E. Launer, **J. F. McLaughlin**, and D. D. Murphy. Conservation biology. Chapter 13 in P. R. Ehrlich and I. Hanski, editors, *On the Wings of Butterflies: The Population Biology of Checkerspots*. Oxford University Press.

INVITED PRESENTATIONS

- "Regional risk assessment: The relative risk model," Aquatic Habitat Assessment Workshop for Salmon Recovery Planning, National Marine Fisheries Service, Portland, OR, November 2000.
- "Measuring ecological parameters to predict sustainability," International Congress on Ecosystem Health, Sacramento, CA, August 1999. *Invited symposium presentation.*
- "Effects of environmental contaminants in spatially structured environments," Symposium on Environmental Contaminants and Terrestrial Vertebrates: Effects on Populations, Communities, and Ecosystems, October 1998, College Park, MD. *Invited symposium presentation.*
- "Species interactions in space," Ecological Society of America, 75th Annual Meeting, Snowbird, Utah, August 1990. *Invited symposium presentation.*

CONTRIBUTED PRESENTATIONS

- "Tithes for wilderness? Ecologically inadequate." Northwest Wilderness Conference 2000, Seattle, WA, April 2000.
- "A quantitative framework for predicting environmental sustainability," Ecological Society of America, 84th Annual Meeting, Spokane, WA, August 1999.
- "Applying ecosystem valuation to regional ecological risk assessment and management," Society of Environmental Toxicology and Chemistry, 19th Annual Meeting, Charlotte, NC, November 1998.
- "Applications of population, community, and landscape ecology to environmental risk assessment," Short course, Society of Environmental Toxicology and Chemistry, 19th Annual Meeting, Charlotte, NC, November 1998.
- "Integrating stressor impacts from local to landscape levels by testing metapopulation models in the field," Poster presentation, Modeling and Measuring the Vulnerability of Ecosystems at Regional Scales for Use in Ecological Risk Assessment and Risk Management, Seattle, WA, August 1998.
- "Effects of climbers and marmots on alpine plants in Grand Teton National Park, Wyoming, USA," Society for Conservation Biology, 11th Annual Meeting, Victoria, B.C., June 1997.
- "The path to extinction: Population dynamics of a threatened butterfly," Society for Conservation Biology, 9th Annual Meeting, Colorado State University, June 1995.
- "Reading between nature's lines: The art and science of animal tracking," National Conference for Outdoor Leadership, Wilderness Education Association, Chico, CA, February 1994.
- "Suitability quantified: The potential for reserves to maintain populations and communities," Workshop on Theoretical/Experimental Interfaces in Ecology, Univ. Wisconsin Trout Lake Field Station, September 1992.
- "Roles of GIS in conservation," Twelfth Annual ESRI User Conference, Palm Springs, CA, June 1992.
- "Species interactions across spatial scales," Bridging the Gap Between Theoretical and Empirical Ecology, Broadus, TX, November 1990.