

Mark D. Hunter, Curriculum Vitae

Professor, University of Michigan.
Department of Ecology and Evolutionary Biology, and
School of Natural Resources and Environment.

Education

1984-1988: University of Oxford, Oxford, UK. Ph.D. Ecology.
1981-1984: University of Oxford, Oxford, UK. B.A. (Honors) Zoology.

Employment

01/06 – present Professor, EEB & SNRE, University of Michigan
10/02 – 12/05: Director, Center for Biodiversity and Ecosystem Processes
University of Georgia, Athens, GA
02/05 – 12/05: Professor, Institute of Ecology,
University of Georgia, Athens, GA
03/00 – 02/05: Associate Professor, Institute of Ecology,
University of Georgia, Athens, GA
01/95-03/00: Assistant Professor, Institute of Ecology,
University of Georgia, Athens, GA
08/92-12/94: NSERC International Research Fellow,
Department of Biology, Laval University, Canada.
11/91-06/92: Temporary Faculty, Department of Entomology,
Pennsylvania State University, USA.
11/89-10/91: NATO Research Fellow, Department of Entomology,
Pennsylvania State University, USA.
05/89-10/89: Research Fellow, Department of Entomology,
Pennsylvania State University, USA.
10/87-04/89: Research Fellow, Department of Zoology,
University of Oxford, United Kingdom.

Grants Awarded

2006-2008: Managing forests under global environmental change: Soil food web controls of carbon storage. McIntire-Stennis U.S. Forest Service Competitive Research Grant, \$60,000. Co-PI D.R. Zak.
2004-2007: Environmental gradients and variation in the strength of bird predation on oak herbivores. NSF Competitive Research Grant, Ecology, \$350,556. Co-PI, R. Cooper.
2002-2007: Long-term consequences of biochemical and biogeochemical changes in the Horseshoe Bend Agroecosystem. NSF LTREB Competitive Research Grant, Ecosystem Studies, \$300,000. Co-Pi's D.C. Coleman and P.F. Hendrix.
2003-2007: Causes, consequences, and control of outbreaks of the hemlock woolly adelgid. USDA Forest Service, \$125,000.
2004-2006: Ecological circuitry collaboratory. NSF Competitive Research Grant, Ecosystem Ecology, \$24,000.
2001-2005: Changes in leaf chemistry, insect herbivory, leaf abscission and decomposition between ambient and elevated CO₂. SERC-NIGEC, \$430,000. Co-PI, P. Stiling.

- 2000-2004: Nitrogen controls of below-ground carbon allocation and fates at ecosystem levels. USDA-NRI Competitive Research Grant, \$400,000. Co-Pi's J.J. Hendricks and R.J. Mitchell.
- 1999-2004: Canopy herbivory and soil processes in a temperate and tropical forest. NSF Competitive Research Grant, Ecosystem Ecology, \$420,000. Co-Pi's M.D. Lowman and T.D. Schowalter.
- 2002-2008: Regional scale consequences of global change: Anticipating the supply of ecosystem services. NSF Long-Term Ecological Research. \$6,720,000. With 31 CO-PI's.
- 1998-2001: Is genetic diversity redundant for ecosystem function? Linking genotype and decomposition. Andrew W. Mellon Foundation, \$130,000.
- 1999-2001: Top-down and bottom-up effects on herbivores: Nutrient availability and the trophic interactions of insects on oak. NSF Competitive Research Grant, Ecology, \$70,000.
- 1999-2000: Identification of biochemical messengers in herbivores that modulate plant growth and development. NSF Competitive Research Grant, Ecological and Evolutionary Physiology. \$41,560. Co-Pi's M.I. Dyer and M.R. Brown.
- 1999-2000: Coweeta LTER Equipment and Cross-Site Supplement. NSF Long-Term Ecological Research, \$35,000. Co-Pi's D.C. Coleman, B.D. Kloeppel, and C.M. Pringle.
- 1998-1999: Genetics of stress resistance traits in turkey oak, *Quercus laevis*. International Society of Arboriculture Research Trust. \$8,800. Co-Pi L.A. Donovan.
- 1996-1998: Short- and long-term effects of hurricane Opal on a forest ecosystem. NSF SGER Grant, Long-term studies in environmental biology program, \$24,961.
- 1996-1999: Environmental heterogeneity and the relative roles of top-down and bottom-up forces in oak herbivore communities. NSF CAREER Award, Ecology, \$120,000.
- 1997-2000: Genome Analysis Facility Grant, UGARF, University of Georgia, \$750,000. Collaborative grant with 18 CO-PI's.
- 1996-2001: Long-term studies of disturbances as they affect ecological processes in landscapes of the southern Appalachians. NSF Competitive Research Grant, Ecosystem Studies (LTER), \$6,030,489. With 31 CO-PI's.
- 1992-1994: The role of host-plant variability in the induction of insect diapause: proximal mechanisms and ecological consequences. NSERC International Research Fellowship, \$58,000, Laval University.
- 1990-1993: Impact of damage-induced changes in oak leaves on susceptibility of gypsy moth to a baculovirus. NSF Competitive Research Grant, Ecology, \$200,000. Co-Pi J.C. Schultz, Pennsylvania State University.
- 1991-1993: Novel tactics in apple IPM to manage OP resistance and biological control. USDA IPM Competitive Grants Program, \$150,000. Co-Pi's L.A. Hull, B.A. McPherson & G.M. Greene, Pennsylvania State University.
- 1991-1994: Supplement grant for research at a National Science Foundation long-term ecological research site, Jornada, New Mexico. NSF Supplement, \$50,000. Co-Pi J.C. Schultz, Pennsylvania State University.
- 1990-1991: Exploiting natural insecticides in apple cultivars to control tufted apple bud moth. PSU College of Agriculture Competitive Grant, \$47,504. Co-Pi L.A. Hull, Pennsylvania State University.
- 1989-1991: Interactions between the gypsy moth, host plant chemistry, and susceptibility to a nuclear polyhedrosis virus. NATO Research Fellowship, \$46,000. Pennsylvania State University.
- 1987-1989: The potential for outbreaks of the winter moth in plantations of Sitka Spruce in Scotland. Scottish Forestry Trust/Barbinder Trust Joint Competitive Research Grant, \$44,000. University of Oxford.
- 1983: A study of pass migration of Passerine birds in the North Western Himalayas. Royal Geographical Society/British Broadcasting Corporation Joint Competitive Research Grant, \$20,000. University of Oxford.

Professional Awards/Distinctions

- 2005: Plenary Speaker. National Academy of Sciences, Irvine, CA. Understanding factors that allow biodiversity to evolve and to persist.
- 2005: College of Environment and Design, Outstanding Teacher Award.
- 2004: Plenary Speaker. AIBS Annual Meeting/Workshop on Invasive Species, Washington DC.
- 2003: Institute of Ecology Outstanding Instructor Award.
- 1999 – 2004: Honorary Research Fellow, Marie Selby Botanical Gardens, Sarasota, FL.
- 1999: “Eminent Ecologist”, Kellogg Biological Station.
- 1999: University of Georgia Creative Research Medal.
- 1999: Bobby C. Pass Award for Inspiring Scientific Creativity of Graduate Students, University of Kentucky.
- 1998: Plenary Speaker, Annual Meeting of the Entomological Society of Canada, Quebec, PQ, Canada.
- 1996-1998: University of Georgia Lilly Teaching Fellowship.
- 1996-1998: NSF CAREER Award.
- 1992-1994: NSERC International Research Fellowship.
- 1989-1991: NATO International Research Fellowship.
- 1988: Wain Fellowship, British Agriculture and Food Research Council.

Administrative Responsibilities

October 2002 to December 2005: Founding Director of the Center for Biodiversity and Ecosystem Processes, University of Georgia. Facilitated research activities of over 50 faculty from 11 departments and 4 colleges. The Center’s mission is to conduct fundamental research into the role of biodiversity in sustaining the ecosystem services that support life, and to disseminate research findings within and beyond the scientific community. Raised \$1.8 million for Center activities.

Editorial Boards: Ecological Entomology, Agricultural and Forest Entomology

Courses Taught

Undergraduate Level: General Ecology, Population and Community Ecology, Entomology, Pests and Diseases, Introductory Cell Biology, Human Physiology, Ecological Basis of Environmental Issues, Introductory Biology, Biodiversity

Graduate Level: Community Ecology, Population Ecology, Herbivory, Natural Systems Ecology

Graduate Students Supervised

1. Rebecca E. Forkner. Variation in the impact and diversity of predaceous terrestrial arthropods as a function of resource heterogeneity, habitat structure, and trophic interactions. Ph.D. dissertation, graduated fall 1998.
2. Barbara C. Reynolds. Canopy herbivory and soil processes in a temperate forest. Ph.D. dissertation, graduated spring 2000.
3. Rebecca D. Klaper. The role of genotype and environment in the expression of phenolic defenses in turkey oak, *Quercus laevis*. Ph.D. dissertation, graduated spring 2000.
4. Katherine D. Kearns. Chemical mediation of interactions between cyanobacteria and green algae in freshwater lakes. Ph.D. dissertation, graduated spring 2000.

5. Alissa K. Salmore. Tradeoffs between defense and reproduction in *Sanguinaria canadensis* (Papaveraceae) along an altitudinal gradient. M.S. dissertation, graduated spring 2000.
6. Michael D. Madritch. Is genetic diversity redundant for ecosystem function? Linking genotype and decomposition. Ph.D. dissertation, graduated fall 2002.
7. Sandra E. Helms. The influences of plant quality and intraguild predation on *Asclepias* insects. M.S. dissertation, graduated fall 2005.
8. Christopher J. Frost. Canopy herbivores and nutrient cycling in forest ecosystems. Ph.D. dissertation, graduated fall 2005.
9. M.Carmen Hall. Effects of elevated concentrations of atmospheric carbon dioxide on insect herbivores and decomposition processes. Ph.D. dissertation, graduated fall 2005.
10. Caralyn B. Zehnder. The role of maternal effects in the population dynamics of aphids on *Asclepias*. Ph.D. dissertation, graduated fall 2006.
11. Becky Ball. Biodiversity and ecosystem function during decomposition (in progress).
12. Kyle Wickings. The relative impacts of transgenes, organic matter, and the abiotic environment on the distribution and abundance of insects in agricultural fields (in progress).
13. Rachel Vannette. The role of mycorrhizae in complex ecological interactions (in progress).
14. Kristine Crous. Plant nitrogen partitioning during photosynthesis under elevated atmospheric carbon dioxide (in progress).
15. Kiyoko Julyk. Carbon sequestration in residential developments (in progress).
16. Elizabeth Wason. Broad scale patterns of adaptation in insect herbivores (in progress).
17. Susan Kabat. Genetic architecture in natural populations of *Asclepias syriaca* (in progress).

Undergraduate Students Supervised

Kim Holton, Jason Leathers, Rich Wawrzonek, Doug Marcinek, Russell Scarborough, Katie Kurkjian, Michael Mamay, Jennifer Jarrell, Abigail Feinstein, Matt Wood, Alia Azhar, Meg Andrew, Kim Deal, Alex Reynolds, Jeffrey Etherton, Catherine Ramsay, Emily Franzen, Robert Zinzen, Scott Connelly, Scott Eustis, Valerie Njiri, Sabrina White, Oren Kleinberger, Sandy Helms, Katie Stepp, Alan Grosse, Tricia Rodriguez, Jace Nelson, Rose Cannon, Tom Greenstone, Hannah Smith, Chad Jennison, Candace Stockdale, Ryan Malloy, Paige Doty, Melissa Parris, David Egetter, Ashley Whitaker, Blake Joyce, Josh Booker, Lisa Choi, Sarah Breed, Jayna Berger, Sarah Wheeler, Brooke Nana.

Papers Given at Meetings/Universities

- 2006: "Linking population dynamics and ecosystem ecology." Colloquium at University of California, Davis, CA.
- 2006: "The population ecology of insects and their role in ecosystems." Colloquium at Western Michigan University, Kalamazoo, MI.
- 2006: "Bird predation on oak herbivores along an environmental gradient." Cooper, R.J., K.W. Stodola, C.B. Zehnder & M.D. Hunter. Annual meeting of the American Ornithologists Union, Veracruz, Mexico.
- 2006 "Long-term consequences of biochemical and biogeochemical changes in the Horseshoe Bend LTREB agroecosystem, Athens, GA." Coleman, D.C., M.D. Hunter, P.F. Hendrix,

- D.A. Crossley, S. Arce-Flores, B. Simmons, & K. Wickings. Annual meeting of the Ecological Society of America, Memphis, TN.
- 2006 “Environmental gradients and variation in the strength of bird predation on oak herbivores.” Zehnder, C.B., K. Stodola, R. Cooper, & M.D. Hunter. Annual meeting of the Ecological Society of America, Memphis, TN.
- 2006 “The effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians.” Ball, B., J. Kominoski, M.D. Hunter, C.M. Pringle, D.C. Coleman, & M. Bradford. Annual meeting of the Ecological Society of America, Memphis, TN.
- 2006 “A community genetics perspective on plant competition.” Dinnage, R., A. Zhou, M. Johnson, & M.D. Hunter. Annual meeting of the Ecological Society of America, Memphis, TN.
- 2006 “Environmental gradients and variation in the strength of bird predation on oak herbivores.” Zehnder, C.B., K. Stodola, R. Cooper, & M.D. Hunter. Annual meeting of the Coweeta LTER Program, Coweeta, NC.
- 2006 “The effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians.” Ball, B., J. Kominoski, M.D. Hunter, C.M. Pringle, D.C. Coleman, & M. Bradford. Annual meeting of the Coweeta LTER Program, Coweeta, NC.
- 2006 “Positive non-additive effects of species richness and composition on ecosystem function.” Kominoski, J., C.M. Pringle, B. Ball, M. Bradford, D.C. Coleman, D. Hall, & M.D. Hunter. Annual meeting of the Ecological Society of America, Memphis, TN.
- 2006 “The effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians.” Ball, B., J. Kominoski, M.D. Hunter, C.M. Pringle, D.C. Coleman, & M. Bradford. LTER All Scientists Meeting, Estes Park, CO.
- 2006 “Positive non-additive effects of leaf litter species diversity on breakdown dynamics in a detrital-based stream.” Kominoski, J., C.M. Pringle, B. Ball, M. Bradford, D.C. Coleman, D. Hall, & M.D. Hunter. LTER All Scientists Meeting, Estes Park, CO.
- 2006 “The relative effects of Bt cotton, tillage strategy, and cover crop identity on above and below-ground arthropod communities.” Wickings, K.G. & M.D. Hunter. Annual meeting of the Entomological Society of America, Indianapolis, IN.
- 2005: “Understanding factors that allow biodiversity to evolve and to persist.” Plenary Speaker, National Academy of Sciences, Irvine, CA.
- 2005 “Insect population dynamics meets ecosystem ecology: Lessons for ecological sustainability.” Colloquium at the University of Michigan.
- 2005 “Insect population dynamics meets ecosystem ecology: Lessons for ecological sustainability.” Colloquium at the University of Maryland.
- 2005 “Linking population dynamics and ecosystem ecology.” Colloquium at Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
- 2005 “A comparison of maternal effects and current environment on vital rates of *Aphis nerii*, the milkweed-oleander aphid.” Zehnder, C.B. and M.D. Hunter. Annual meeting of the Ecological Society of America, Montreal, Quebec.
- 2005 “Effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians, USA.” Kominoski, J.S., B.A. Ball, C.M. Pringle, M.D. Hunter, and D.C. Coleman. Annual Meeting of the North American Benthological Society, New Orleans, Louisiana.
- 2005 “Effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians, USA.” Ball, B.A., J.S. Kominoski, M.D. Hunter, C.M. Pringle, and D.C. Coleman. Annual Meeting of the Soil Ecology Society, Argonne National Laboratory, Illinois.
- 2005 “Effects of leaf litter species diversity on decomposition in a forested watershed in the southern Appalachians, USA.” Ball, B.A., J.S. Kominoski, M.D. Hunter, C.M. Pringle, and D.C. Coleman. Southeastern Ecology and Evolution Conference, Athens, Georgia.

- 2004 "The role of NEON in the development of theory in invasive species research." Plenary Lecture and Panel Member, American Institute of Biological Sciences, Washington, DC.
- 2004 "An ecosystem-level perspective on root-herbivore interactions." Panel Review Team, University of Reading, Reading, UK.
- 2004 "Insect population dynamics meets ecosystem ecology." Colloquium at the University of Florida, Gainesville, Florida.
- 2004 "Interactions between insect herbivores and ecosystem processes." Colloquium in the Department of Plant Biology, University of Georgia, Athens, Georgia.
- 2004 "Chemical ecology as the mediator of interactions between populations and ecosystems." Pennsylvania State University, State College, Pennsylvania.
- 2004 "Linking population and ecosystem processes through plant foliar quality." Colloquium at Appalachian State University, Boone, North Carolina.
- 2004 "Nitrogen and carbon inputs from canopy herbivores: Comparing outbreak and endemic levels of herbivory." Reynolds, B.C. & M.D. Hunter. Annual meeting of the Ecological Society of America, Portland, Oregon.
- 2004 "Late-season insect herbivores use nitrogen recycled from early-season herbivore activity." Frost, C.F. & M.D. Hunter. Annual meeting of the Ecological Society of America, Portland, Oregon.
- 2004 "Biochemistry intersects biogeochemistry: LTREB study of Bt toxin persistence and organic matter levels in a Georgia agroecosystem." Coleman, D.C., M.D. Hunter, B. Simmons, & K. Wickings. Annual meeting of the Ecological Society of America, Portland, Oregon.
- 2004 "The effects of canopy herbivory on soil microarthropods in a tropical rainforest." Rinker, H.B., S.J. Fonte, M.D. Lowman, T.D. Schowalter, & M.D. Hunter. Annual meeting of the Ecological Society of America, Portland, Oregon.
- 2003 "Insects, plants, populations, and ecosystems: complex interactions within ecological systems." Colloquium at Oklahoma University, Norman, Oklahoma.
- 2003 "Population-ecosystem interactions in south eastern forests." Colloquium at the School of Forest Resources, University of Georgia, Athens, Georgia.
- 2003 "Insects, plants, populations, and ecosystems: complex interactions within ecological systems." Colloquium at Tulane University, New Orleans, Louisiana.
- 2003 "Insect outbreaks and forest nutrient dynamics: measuring effects and determining mechanisms." Colloquium at Indiana University, Bloomington, Indiana.
- 2003 "Linking population-level and ecosystem-level processes: The role of plant phenolics." Colloquium at the Archbold Biological Station, Lake Placid, Florida.
- 2003 "Effects of variation in plant quality on the interaction between an herbivore and its parasitoid." Helms, S.E., S.J. Connelly & M.D. Hunter. Annual Meeting of the Ecological Society of America, Savannah, Georgia.
- 2003 "Foliar quality and herbivory as predictors of litter quality under elevated CO₂ conditions in a scrub-oak community." Hall, M.C., P. Stiling, D.C. Moon, & M.D. Hunter. Annual Meeting of the Ecological Society of America, Savannah, Georgia.
- 2003 "Canopy herbivory on red oaks increases soil respiration and soil carbon independent of herbivore-derived inputs." Frost, C.J. & M.D. Hunter. Annual Meeting of the Ecological Society of America, Savannah, Georgia.
- 2003 "Phenotypic diversity influences ecosystem functioning in the presence of another species." Madritch, M.D. & M.D. Hunter. Annual Meeting of the Ecological Society of America, Savannah, Georgia.
- 2002 "Global environmental change: The interface between population processes and ecosystem function." Annual Meeting of the National Institute for Global Environmental Change, Cape Canaveral, Florida.
- 2002 "Interactive effects of intraspecific litter diversity and nitrogen deposition on nutrient cycling." Madritch, M.D. and M.D. Hunter. Annual Meeting of the Ecological Society of America, Tucson, Arizona.

- 2002 “Cascades, indirect effects and interactions: terminology and the development of theory.” Annual Meeting of the Ecological Society of America, Tucson, Arizona.
- 2002 “Decomposition of herbivore derived greenfall: The potential influence of phytophagous insects on soil processes.” Fonte, S.J., M.D. Hunter, T.D. Schowalter, M.D. Lowman, and H.B. Rinker. Annual Meeting of the Ecological Society of America, Tucson, Arizona.
- 2002 “Nutrients from the canopy: Variations in frass carbon/nitrogen ratios along an elevation gradient in western North Carolina.” Reynolds, B.C. and M.D. Hunter. Third International Canopy Conference, Cairns, Australia.
- 2002 “Insect population dynamics in a changing world. Some simple models and predictions.” Plenary Lecture at the Workshop on Trophic Interactions in a Changing World.” Texel, The Netherlands.
- 2002 “Phenolics, insects, and ecosystem processes.” Colloquium at the Institute of Ecosystem Studies, Millbrook, New York.
- 2001 “Feedback loops and forest insect population dynamics.” Royal Entomological Society, Aberdeen, Scotland.”
- 2001 “From molecules to ecosystems: complex feedback loops among plants, herbivores and the environment.” Center of Ecology and Hydrology, Banchory, Scotland.
- 2001 “Decomposition and nutrient cycling in a changing environment: Is genetic diversity redundant to ecosystem function?” Madritch, M.D. and M.D. Hunter. Annual Meeting of the Ecological Society of America, Madison, Wisconsin.
- 2001 “From molecules to ecosystems: complex feedback loops among plants, herbivores and the environment.” Gordon Conference on Plant-Herbivore Interactions, Ventura, California.
- 2001 “Canopy herbivory and soil processes in temperate and tropical forests.” Lowman, M.D., Rinker, H.B., Hunter, M.D., Schowalter, T.D., and Fonte, S.J. International Conference on Tropical Ecosystems: Structure, Diversity, and Human Welfare, Bangalore, India.
- 2000 “Effects of plant quality on herbivore population dynamics: density-dependent, density-independent, and inverse density-dependent effects.” Annual Meeting of the Ecological Society of America, Snowbird, Utah.
- 2000 “Decomposition and nutrient cycling in a changing environment: Is genetic diversity redundant to ecosystem function?” Madritch, M.D. and M.D. Hunter. Annual Meeting of the Ecological Society of America, Snowbird, Utah.
- 2000 “Effects of canopy herbivory on soil respiration.” Reynolds, B.C. and M.D. Hunter. Annual Meeting of the Ecological Society of America, Snowbird, Utah.
- 2000 “Insect frass and forest floor processes: If shit happens, what happens to shit?” Long-Term Ecological Research Site All Scientists Meeting, Snowbird, Utah.
- 2000 “Effects of canopy herbivory on soil respiration.” Reynolds, B.C. and M.D. Hunter. Long-Term Ecological Research Site All Scientists Meeting, Snowbird, Utah.
- 2000 “The role of fauna in leaf decomposition across gradients in litter quality and habitat type: A cross site comparison.” Powell, N, M.D. Hunter, C.M Pringle, D.C. Coleman, S. Adl, and E. Greathouse. Long-Term Ecological Research Site All Scientists Meeting, Snowbird, Utah.
- 2000 “Consequences of variation in phenolic compounds: Preference and performance of herbivores on turkey oak.” Klaper, R.D. and M.D. Hunter. Annual Meeting of the Entomological Society of America, Montreal, Canada.
- 2000 “Feedback loops in communities.” Colloquium at Northern Arizona University, Flagstaff, Arizona.
- 2000 “Feedback loops between phytophagous insects and their host plants.” Colloquium at the University of Auburn, Auburn, Alabama.
- 2000 “Sources of variation in plant quality and their consequences for herbivore population dynamics.” Colloquium at Humboldt State University, Arcata, California.
- 1999 “Towards an ecology without boundaries: From molecules to ecosystems.” Eminent Ecologist Lecture Series, Annual Invitee. Kellogg Biological Station, Michigan.

- 1999 "Causes and consequences of variation in plant chemistry in ecological systems." Eminent Ecologist Lecture Series, Annual Invitee. Kellogg Biological Station, Michigan.
- 1999 "The role of host plant quality in the population dynamics of insect herbivores." Graduate Student Annual Invitee at the University of Kentucky, Lexington, Kentucky.
- 1999 "Variation in plant quality and the population ecology of herbivores." Colloquium at Western Carolina University, Cullowhee, North Carolina.
- 1999 "Causes and consequences of variation in plant chemistry in non-marine systems." Colloquium at Georgia Institute of Technology, Atlanta, Georgia.
- 1999 "Heterogeneity in plant quality and its impact on the population ecology of insect herbivores." Annual Meeting of the British Ecological Society, Brighton, England.
- 1999 "Estimation of heritability of secondary chemistry in a natural population of *Quercus laevis* using molecular markers." Klaper, R.D., M.D. Hunter, and T.A. Mousseau. Annual Meeting of the Society for the Study of Evolution, Madison, Wisconsin.
- 1999 "Environmental effects on variation in defensive chemistry of the turkey oak, *Quercus laevis*." Klaper, R.D. and M.D. Hunter. Annual Meeting of the Ecological Society of America, Spokane, Washington.
- 1999 "Litter decomposition and microarthropod abundance along an elevation gradient in western North Carolina." Reynolds, B.C., M.D. Hunter, and D.A. Crossley, Jr. Annual Meeting of the Ecological Society of America, Spokane, Washington.
- 1999 "Aboveground forest biomass, net primary productivity, and nitrogen content across a complex gradient at Coweeta Hydrologic Laboratory, North Carolina. Kloeppel, B.D., N.R. Hayden, J.S. Clark, M.D. Hunter, and B.C. Reynolds. Annual Meeting of the Ecological Society of America, Spokane, Washington.
- 1999 "A multifactorial study of population regulation in the mottled sculpin (*Cottus bairdi*). Grossman, G.D., J.T. Petty, R.E. Ratajczak Jr., and M.D. Hunter. Annual Meeting of the American Society of Ichthyologists and Herpetologists, State College, Pennsylvania.
- 1998 "The chemistry of plant-insect interactions: What can we use in IPM?" Annual Meeting of the Entomological Society of Canada, Quebec, PQ, Canada.
- 1998 "Canopy-forest floor interactions in theory and practice." Mark D. Hunter and D.A. Crossley, Jr. Forest Canopies 1998: Global Perspectives, Sarasota, Florida.
- 1998 "Oak chemistry, hurricane damage, and defoliation by insect herbivores." Mark D. Hunter and Rebecca E. Forkner. Annual Meeting of the Ecological Society of America, Baltimore, Maryland.
- 1998 "Environmental heterogeneity and the relative importance of plant quality and predation to oak herbivores." Rebecca E. Forkner and Mark D. Hunter. Annual Meeting of the Ecological Society of America, Baltimore, Maryland.
- 1998 "Hurricane damage influences foliar polyphenolics and subsequent herbivory on surviving trees." Annual Meeting of the Coweeta Long-Term Ecological Research Site Program, University of Georgia.
- 1998 "Decomposition and microarthropod assemblages along an elevation gradient." Kitti Reynolds, D.A. Crossley Jr., and Mark D. Hunter. Annual Meeting of the Coweeta Long-Term Ecological Research Site Program, University of Georgia.
- 1998 "Defense versus reproduction in *Sanguinaria canadensis* (Papaveraceae) along and altitudinal gradient." Alissa K. Salmore and Mark D. Hunter. Annual Meeting of the Coweeta Long-Term Ecological Research Site Program, University of Georgia.
- 1998 "Measuring the effects of plant quality on ecological interactions in space and time." Colloquium at the Joseph Jones Research Center, Ichauway, Georgia.
- 1998 "Plant quality as a template for ecological interactions." Botany Department, University of Georgia.

- 1997 "Causes and consequences of variation in foliar phenolics among individual oak trees." Mark D. Hunter and Rebecca E. Forkner. Conference on Diversity and Adaptation in Oak Species, Pennsylvania State University, Pennsylvania.
- 1997 "Genetic versus environmental effects on the phenolic chemistry of turkey oak, *Quercus laevis*." Rebecca D. Klaper and Mark D. Hunter. Conference on Diversity and Adaptation in Oak Species, Pennsylvania State University, Pennsylvania.
- 1997 "Estimating the relative roles of top-down and bottom-up forces on insect herbivore populations: A classic study re-visited." Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico.
- 1997 "Canopy arthropod effects on soil decomposition processes along an elevation gradient at Coweeta." Barbera C. Reynolds and Mark D. Hunter. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico.
- 1997 "Why plants matter to the population dynamics of insect herbivores." Colloquium at the University of Maryland, College Park, Maryland.
- 1997 "Plant quality and herbivore population dynamics." Colloquium at the Savannah River Ecology Laboratory, Aiken, SC.
- 1997 "Causes and consequences of variation in levels of insect herbivory at the Coweeta Hydrologic Laboratory." Annual Meeting of the Coweeta Long-Term Ecological Research Site, Georgia State Botanical Gardens, Athens, GA.
- 1996 "Incorporating variation in plant chemistry into a spatially-explicit ecology of phytophagous insects." Mark D. Hunter and Rebecca D. Klaper. Reunion Internacional de Ecologia Quimica. Oaxtepec, Mexico.
- 1996 "Plant phenotype and the population ecology of herbivores." Colloquium at Vanderbilt University, Nashville, Tennessee.
- 1996 "The relative roles of top-down, bottom-up, and lateral forces in the population ecology of forest folivores." The Second Forest Insect Workshop, San Antonio, Texas.
- 1996 "Phytophagous insects and the importance of plant phenotype in ecological systems." Botany Department, University of Georgia.
- 1995 (Meeting Convenor) "Incorporating variation in plant chemistry into a spatially-explicit ecology of phytophagous insects." The 18th Royal Entomological Society Symposium, London, UK.
- 1995 "Does plant quality matter? Searching for effects on herbivore populations and communities in ecological time." Colloquium at the University of Chicago, Chicago, Illinois.
- 1994 "Impacts of disease on insect herbivore populations: need we know more?" Annual Meeting, Ecological Society of America, Knoxville, Tennessee.
- 1994 "The role of plant variability in the population and community ecology of herbivores." Colloquium at Harvard University, Cambridge, Massachusetts.
- 1994 "Artificial boundaries in ecology: Cascading effects of a molecular interaction from the individual to the landscape level of organization." Colloquium at the Institute of Ecosystem Studies, Millbrook, New York.
- 1994 "The Insect Drug Store: Foliage Chemistry Determines the Susceptibility of Forest Pests to their Pathogens." Colloquium at the University of New Brunswick.
- 1994 "Plant variability and herbivore community structure." Colloquium at St Andrews University, Scotland.
- 1993 "Complex ecological interactions and patterns of tree growth: Links between dendrochronology and herbivore population biology." Dendroecological workshop. Tree-growth disturbances: Their triggers and effects. Kuujuaaraapik, Canada.
- 1992 "Insect pathogens and forest pest population dynamics: Host plant quality is the key." XIX International Congress of Entomology, Beijing, China.
- 1992 "What is a pest?" Individuals, Populations and Patterns, University of East Anglia, Norwich, England.

- 1992 "The idiosyncrasies of induction: Host plant-specific chemical changes and guild-specific responses." Gordon Research Conference, Plant-Herbivore Interactions, Oxnard, California.
- 1991 "Defoliation-induced changes in leaf quality protect the gypsy moth from disease." Annual Meeting, Ecological Society of America, San Antonio, Texas.
- 1991 "Causes of foliage quality variation and the consequences for gypsy moth populations." J.C. Schultz, M.C. Rossiter, K.W. Kleiner, M.D. Hunter, M.A. Foster, H.M. Appel and M.D. Abrams. Annual Meeting, Ecological Society of America, San Antonio, Texas.
- 1991 "Induced Plant Defenses Breached? The influence of oak tannins on a nuclear polyhedrosis virus of the gypsy moth." II North American Tannin Conference, Houghton, Michigan.
- 1991 "Foliage quality variation and the consequences for gypsy moth populations." Colloquium at the University of South Carolina.
- 1990 "Interactions within herbivore communities mediated by the host plant: The keystone herbivore concept." V International Congress of Ecology, Yokohama, Japan.
- 1990 "The diversity of insect herbivores in the tropics: Patterns and processes." OTS Course, Costa Rica.
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