Associate Professor, School of Natural Resources & Environment University of Michigan, Ann Arbor, MI 48109

mchunter@umich.edu

#### **Educational Background**

University of Georgia, Master of Landscape Architecture, 1999 State University of New York at Stony Brook, Ph.D. Ecology, 1981 University of California at Berkeley, B.A. Zoology, 1976. University of Detroit, B.A. Communications, 1970.

<u>Master's Thesis:</u> Evolution of an Ecological Aesthetic in Landscape Design: The Beauty of Revealed Function. Doctoral Dissertation: Evolution of Host Plant Use in a Generalist Herbivore, Lymantria dispar.

## **Employment History**

Associate Professor, School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI 5/2012 – present

Assistant Professor, School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI 1/2006 – 4/2012

Assistant Professor and professional designer, School of Environmental Design, University of Georgia, Athens GA, 8/2003 – 12/2005

Landscape Architect, Beall, Gonnsen & Co. Athens, GA; Site design, master planning, engineering, construction, 6/1999 - 7/2003

## Research Scientist, 15 years:

Adjunct Associate Research Ecologist, Institute of Ecology, University of Georgia, 6/1995 – 12/1997 Assistant Professor (tenure-track), Université Laval, Département de Biologie, 8/92- 1/95.

Research Associate (non-standing faculty), Pennsylvania State University, Dept. Entomology, 6/87 - 7/92.

Postdoctoral Associate, Pennsylvania State University, Department of Entomology, 8/84 - 5/87. Lecturer, University of Texas at Austin, Dept. Zoology, 1/82 - 1/84.

Postdoctoral Associate, University of Texas at Austin, Depts. Botany and Zoology, 4/81 - 12/81.

# **Teaching Experience**

University of Michigan: Ecological Site Design Studio, Ecological Planting Design Studio; Urban Agriculture – current; Site Engineering-Civil Engineering for Landscape Architects, Sustainable Site Design Studio - previously

University of Georgia: undergrad - Applied Landscape Ecology; Urban Design; Site Planning; Advanced Construction; grad level - Design & Meaning - advanced design studio; interdisciplinary course with engineering and ecology faculty and students doing outreach projects. 2003 – 2006.

University of Texas: undergrad - Genetics, Ecology & Evolution, Cell Biology, Organismal Biology. 1982 – 1984.

#### Certification & Licensure:

Registered Landscape Architect, No. LA001313, State of Georgia License, 2003 to present

#### **PUBLICATIONS**

### Refereed scholarly articles (Landscape Architecture):

Hunter, M.R., B.W. Gillespie, S.Y. Chen. 2019. Urban nature experiences reduce stress in the context of daily life based on salivary biomarkers. Frontiers in Psychology doi: 10.3389/fpsyg.2019.00722

Ibarra FF, Kardan O, Hunter MCR, Kotabe HP, Meyer FA and Berman MG. 2017. Image Feature Types and Their Predictions of Aesthetic Preference and Naturalness. Frontiers in Psychology 8:632. doi: 10.3389/fpsyg.2017.00632

- Hadavi, S, R Kaplan, MCR Hunter. 2017. How does perception of nearby nature affect multiple aspects of neighbourhood satisfaction and use patterns? Landscape Research. 42(6): 1-20 doi: 10.1080/01426397.2017.1314453
- Hunter, M. R. and A. Askarinejad. 2015. Designer's approach for scene selection in tests of preference and restoration along a continuum of natural to manmade environments. Frontiers in Psychology 6:1228 doi: 10.3389/fpsyg.2015.01228).
- Kardan O, Demiralp E, Hout MC, Hunter MR, Karimi H, Hanayik T, Yourganov G, Jonides J, Berman MG, 2015. Is the preference of natural versus man-made scenes driven by bottom—up processing of the visual features of nature? Frontiers in Psychology 6:471. doi: 10.3389/fpsyg.2015.00471
- Hadavi, S., R. Kaplan, and M.R. Hunter. 2015. Environmental affordances: A practical approach for design of nearby outdoor settings in urban residential areas. Landscape and Urban Planning 134: 19-32.
- Berman MG, Hout MC, Kardan O, Hunter MCR, Yourganov G, et al. 2014. The Perception of Naturalness Correlates with Low-Level Visual Features of Environmental Scenes. PLoS ONE 9(12): e114572. doi: 10.1371/journal.pone.0114572
- Hunter, M.C. and D.G. Brown. 2012. Spatial contagion: Gardening along the street in residential neighborhoods. Landscape and Urban Planning. 105:407-416.
- Haan, N.L., M.C. R. Hunter, and M.D. Hunter. 2012. Investigating Predictors of Plant Establishment During Roadside Restoration. Restoration Ecology 20(3) 315-321.
- Hunter, M.C. 2011. Using ecological theory to guide urban planting design: An adaption strategy for climate change. Landscape Journal 30(2): 173-193.
- Hunter, M.C. 2011. Impact of ecological disturbance on awareness of urban nature and sense of environmental stewardship in residential neighborhoods. Landscape and Urban Planning 101:131-138.
- Hunter, M.C. and Hunter, M.D. 2008. Designing for conservation of insects in the built environment. Insect Conservation and Diversity. 1(4): 189-196.
- Hunter, M.C. 2008. Managing Sense of Place in Transition: Coping with Climate Change. PLACES- a Forum of Environmental Design 20(2): 20-25.

### **Book Chapters (Landscape Architecture):**

- Aguirre, S. et al. 2015. Sustainable tourism: Strategies for landscape regeneration. In <u>Rome's Landscape</u>: <u>LE:NOTRE Landscape Forum 2013</u>, Stiles, S. B.-P. et al. (eds.), pp. 161-210. LE:NOTRE Landscape Monographs.
- Heneghan, L. and M.C. Hunter. 2006. "Biodiversity" section of Green Landscaping with Native Plants.

  <a href="http://www.epa.gov/greenacres/conf12">http://www.epa.gov/greenacres/conf12</a> 04/conf\_knwldge.html. U.S. Environmental Protection Agency.
- Hunter, M.C. 2007. Ecological Community Restoration. In L. J. Hopper (ed.), <u>Landscape Architectural Graphics Standards: Student Edition</u>. Pp. 431-437, in section: Restoration and Remediation. John Wiley & Sons, Inc. New York. 566 pages.
- Hunter, M.C. 2006. Ecological Community Restoration. In L. J. Hopper (ed.), <u>Landscape Architectural Graphics Standards</u>; <u>Professional Edition</u>. Pp. 792-798 in section: Restoration and Remediation. John Wiley & Sons, Inc. New York. 1074 pages. **R**
- Johnson, B.R., J. Silbernagel, M.Hostetler, A. Mills, F. Ndubisi, E. Fife and M.C. Rossiter Hunter. 2002. The Nature of Dialogue and the Dialogue of Nature: Designers and Ecologists in Collaboration. In B.R. Johnson & K. Hill (eds.) <u>Ecology and Design: Frameworks for Learning</u>. Pp. 305-356. Island Press, Washington, D.C.

### Reviews (Landscape Architecture):

Hunter, M.C. 2011c. Conference Review for 2010 Joint meeting of International Study Group for Multiple Use Land (ISOMUL) and the Council of Educators in Landscape Architecture (CELA). Landscape Journal 30(1):162-164.

### Websites for Public Education:

Hunter, M.C. 2009. <a href="http://natureforcities.snre.umich.edu/">http://natureforcities.snre.umich.edu/</a>

### Reports (Landscape Architecture):

Hunter, M.C. 2010. Sustainable approaches for protecting sense of place and building community in new cities. In El-Maghraby, A, M George, and M El-Demirdash (eds.), US-Egypt Conference/Workshop on Sustainable Green Building in Desert Environment, pp. 49-50. Housing & Building National Research Center, Giza, Egypt

### Published Abstracts (Landscape Architecture):

- Hunter, M.C. 2015 Handout for ASLA Education Session FRI-B10: Urban Green Space and Mental Wellbeing: Evidence-Based Design. Annual Meeting, American Society of Landscape Architects, Chicago IL, Nov 6-9.

  <a href="https://www.asla.org/uploadedFiles/CMS/Meetings\_and\_Events/2015\_Annual\_Meeting\_Handouts/FRI-B10">https://www.asla.org/uploadedFiles/CMS/Meetings\_and\_Events/2015\_Annual\_Meeting\_Handouts/FRI-B10</a> Urban%20Green%20Space%20and%20Mental%20Well-being.pdf
- Hunter, M.C. 2015. Developing Design Guidelines for Urban Spaces in Support of Mental Wellbeing Using Theoretical Frameworks from Environmental Psychology and Aesthetics, Pg 184 in Brainstorms: Dynamic Interactions of Environment-Behavior and Neurosciences, Proceedings of the 46th Annual Conference of the Environmental Design Research Association (EDRA). Los Angeles CA, May 27-30
- Hunter, M.C. 2012. Spatial contagion: Gardening along the street in residential neighborhoods, Pg 296 in Finding Center: Landscape & Values, CELA: Council of Educators in Landscape Architecture, Urbana-Champaign IL
- Hunter, M.C. 2010. Impact of extensive street tree loss on urban dwellers' sense of place. Pg 9 in Charles H.; Ginzel, Matthew D., eds. Proceedings of symposium on ash in North America. Gen. Tech. Rep. NRS-P-72. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station.
- Hunter, M.C. 2010. Impact of extensive street tree loss on sense of place in urban dwellers. Pg. 70 in G.J. Carsjens (ed.), Landscape Legacy: Landscape Architecture and Planning Between Art and Science, CELA: Council of Educators in Landscape Architecture/ ISOMUL: International Study Group on Multiple Uses of Land, Maastricht, Netherlands (R)
- Hunter, M.C. 2009. Using ecological theory to guide urban planting design in light of climate change. Pg. 98 in Teaching + Learning Landscape, CELA: Council of Educators in Landscape Architecture, Tucson AZ (R)
- Hunter, M.C. 2008. Adaptation to climate change: Using ecological theory to guide urban planting design. Ecological Society of America, Milwaukee WI http://eco.confex.com/eco/2008/techprogram/P10814.HTM
- Hunter, M.C. 2007. Managing Urban Forest Disturbance: Ecological Design for the People and the Environment, Symposium: Advancing Ecological Function in Managed Ecosystems: Restoring, Revealing, and Re-inventing the Landscape. Ecological Society of America / Society for Ecological Restoration, San Jose, CA <a href="http://eco.confex.com/eco/2007/techprogram/P1455.HTM">http://eco.confex.com/eco/2007/techprogram/P1455.HTM</a>
- Hunter, M., Sawhill, R., Echols, S., and Liptan. T. 2006. Sustainability and G=D/L: A New Path for Teaching Site Engineering. Pg. 201 in Proceedings of the (CELA) Council of Educators in Landscape Architecture Conference and the Canadian Society of Landscape Architects, University of University Of British Columbia, June14-17, 2006, Vancouver, British Columbia. (R)

#### Refereed scholarly articles (Sciences):

Rossiter, M.C. 1996. The incidence and consequences of inherited environmental effects. <u>Annual</u> Review of Ecology and Systematics 27: 451-476.

- Yerger, E.H. and M.C. Rossiter. 1996. Natural causes and rates of early larval mortality in gypsy moths (Lepidoptera: Lymantriidae) sampled from field populations in different density states.

  <u>Environmental Entomology</u> 25: 1002-1011.
- Rossiter, M.C., D.L. Cox-Foster, M. Abou-Zaid, D. Bergeron. 1996. Egg protein insolubility in *Lymantria dispar* versus other forest lepidoptera. <u>ChemoEcology</u> 7: 74-84.
- Rossiter, M.C. 1994. Maternal effects hypothesis of herbivore outbreak. BioScience 44:752-763.
- Rossiter, M.C., D.L. Cox-Foster, and M.A. Briggs. 1993. Initiation of maternal effects in *Lymantria dispar* L.: Genetic and ecological components of egg provisioning. <u>Journal of Evolutionary Biology</u> 6: 577-589.
- Rossiter, M.C. 1991a. Environmentally-based maternal effects: A hidden force in insect population dynamics? Oecologia 87: 288-294.
- Rossiter, M.C. 1991b. Maternal effects generate variation in life history: consequences of egg weight plasticity in the gypsy moth. Functional Ecology 5: 386-393.
- Rossiter, M.C., W.G. Yendol, and N.R. Dubois. 1990. Resistance to *Bacillus thuringiensis* in the gypsy moth (Lepidoptera: Lymantriidae): Genetic and environmental causes. <u>Journal of Economic Entomology</u> 83(6): 2211-2218.
- Rossiter, M.C., J.C. Schultz, and I.T. Baldwin. 1988. Relationships among defoliation, red oak phenolics, and gypsy moth growth and reproduction. <u>Ecology</u> 69: 267-277.
- Rossiter, M.C. 1987a. Use of a secondary host, pitch pine, by non-outbreak populations of the gypsy moth. <u>Ecology</u> 68: 857-868.
- Rossiter, M.C. 1987b. Genetic and phenotypic variation in diet breadth in a generalist herbivore. <u>Evolutionary Ecology</u> 1: 272-282.
- Rossiter, M.C., J. Gershenzon, and T.J. Mabry. 1986. Behavioral and growth responses of a specialist herbivore (*Homoeosoma electellum*) to the major terpenoid of its host (*Helianthus* spp.). <u>Journal</u> of Chemical Ecology 6: 51-63.

### **Book Chapters (Sciences):**

- Rossiter, M.C. 1998a. The role of environmental variation in parental effects expression. *In* T.A. Mousseau and C.W. Fox (eds.), <u>Maternal Effects As Adaptations</u>. Pp. 112-134. Oxford University Press
- Rossiter, M.C. 1998b. Assessment of genetic variation in the presence of maternal or paternal effects in herbivorous insects. *In* S. Mopper and S. Strauss (eds.), <u>Genetic Structure and Local Adaptation</u> in Natural Insect Populations. Pp. 113-138. Chapman & Hall, New York
- Rossiter, M.C. 1995. Impact of life history evolution on population dynamics: predicting the presence of maternal effects. *In* N. Cappuccino and P.W. Price (eds.), <u>Population Dynamics: New Approaches and Synthesis</u>, Pp. 251-275. Academic Press, San Diego.
- Rossiter, M.C. 1992. The impact of resource variation on population quality in herbivorous insects: A critical component of population dynamics. *In* M.D. Hunter, T. Ohgushi and P.W. Price (eds.), Resource Distribution and Animal-Plant Interactions, Pp. 13-42. Academic Press, San Diego.
- Gershenzon, J., M.C. Rossiter, T.J. Mabry, C.R. Rogers, et.al. 1985. Insect antifeedant terpenoids in wild sunflower: a possible source of resistance to the sunflower moth (*Homoeosoma electellum*). *In*Bioregulators for Pest Control, P.A. Hedin, ed., pp.443-446. American Chemical Society, Washington, D.C.
- Rossiter, M.C., D.J. Howard and G.L. Bush. 1982. Symbiotic bacteria of Rhagoletis pomonella, pp. 77-84. In R. Cavallo (ed.) Fruit Flies of Economic Importance. A.A. Balkema, Rotterdan, Netherlands.

#### Reviews (Sciences):

Rossiter, M.C. 1989. Book Review: Epizootiology of Insect Disease. Fuxa and Tanada (eds.) <u>Quarterly</u> Review of Biology 64(2): 207-208.

#### **GRANTS OR CONTRACTS RECEIVED**

### Funding Record as Principle Investigator (Landscape Architecture):

- TKF Foundation, "The mechanisms and design elements of restorative experiences at Open Space, Sacred Places (OSSP) sites", with PI Marc Berman and Co-PI John Jonides (5/2013 4/2018) \$678.2K
- University of Michigan MCubed Grant, "A "nature pill" for healthy ageing in urban areas", with co-PIs Sara Warber & Brenda Gillespie (1/2013 12/2014) \$60,000
- USDA-FS, McIntire-Stennis Award, "Public urban green spaces: The impact of proximity to home, landscape structure, and ecological diversity on mental wellbeing", USDA-NIFA-MSCFR-TBA (10/12-8/15) \$72,000
- SNRE Research Seed Grant Program, "Spatially Contagious Distribution of Easement Gardens in Ann Arbor: motivations and cultural impact", (7/2011 6/2012) \$7000
- USDA-FS, McIntire-Stennis Award, "Supporting Ecological Services Provided by Urban Forest Habitat in Residential Areas", USDA-NIFA-MSCFR-002655 (1/09 9/10) \$67,500
- USDA-FS, McIntire-Stennis Award, "Urban Forest Disturbance: Environmental and Behavioral Response to Street Tree Loss due to the Emerald Ash Borer", CSREES-OD-1088-D (10/06 9/08) \$60,000
- Lynch Mountain Community Coalition, "Lynch Mountain Study: Designs for an Ecologically and Culturally Sensitive Land", co-PI, Pratt Cassity, University of Georgia Public Outreach, (1/05-1/06) \$25,000
- US Fish & Wildlife, Working Together to Restore Habitat Program for installation of raingarden with community educational component; co-Pi, Deborah Borden, environmental engineer, (1/05-9/06) \$12,000
- UGA Research Foundation Junior Faculty Seed Grant in Humanities and Arts, "Evaluation of the ecological aesthetic in the built environment in Georgia", (1/05-1/06) \$2000

### Funding Record as Principle Investigator (Sciences):

- National Science Foundation. Mid-Career Advancement Award. Impact of Heavy Metals on DNA Damage and Survival in Two Grasshopper Species. 12 months (7/96-6/97), \$57,000.
- University System of Georgia National Patterns of Academic Excellence Program. Nature and mechanism of population-level response to heavy metal contamination of grasshoppers. 6 months (10/95-4/96), \$10,000.
- National Sciences and Engineering Research Council of Canada, NSERC #OGPIN 018. Contribution of maternal effects to population dynamics of herbivorous insects. 3 years (4/92-3/95), \$65,000
- National Sciences and Engineering Research Council of Canada, Equipment Grant for ELISA/immunoassay equipment. 1 year (4/92-3/93), \$28,000
- National Research Initiative (USDA) Competitive Grants Program, NRI/USDA #91-37302-6292. Pathogen tolerance in *Lymantria dispar*: Genetic and maternal effects components. 3 years (8/91-7/94), \$210,000
- USDA Competitive Grants Program, USDA #89-37250-4590. Genetic and environmental control of egg provisioning by the gypsy moth. 2 years (8/89-7/91), \$120,000 ((D. Cox-Foster, co-PI)
- National Science Foundation (Population Biology), BSR-8706001. Ecological genetics of diet breadth in a generalist herbivore, *Lymantria dispar*. 2 years (9/87-9/89), \$117,000
- NEPIAP- Northeast Pesticide Impact Assessment Program. Variation in resistance to *Bacillus* thuringiensis within and among three gypsy moth populations. 1 year (7/88-7/89), \$18,000 (W.G. Yendol, co-PI)
- University Research Institute (Univ. of Texas) Grant R-324. Toxins produced by wild sunflowers: a possible source of resistance against insects. 1 year (5/82-5/83), \$5,000

#### **PRESENTATIONS**

### Invited Presentations (Landscape Architecture):

- Speaker and panel member: Non-Economic Values of Ecosystem Services. Water Center at University of Michigan. "Designing for psychological ecosystem services aesthetics and restoration. Ann Arbor MI, 3/28/2017
- Speaker: TKF Foundation webinar "Deconstructing nature based on theory and empirical evidence in order to assess sources of wellbeing benefits. 1/20/2017
- Speaker and panel member: Urban nature experiences result in lowered levels of stress hormone, cortisol". Texan by Nature and Houston Methodist Symposium A Natural Connection: Exploring Positive Outcomes in Health and Healing Through Nature. Houston TX, 9/12/2016 https://www.youtube.com/watch?v=kzHBSUUR6WI
- Speaker and organizer: "Designing Urban Green Space for Mental Wellbeing: Translating Research for Evidence-Based Design" Education Session, ASLA National meeting, Chicago, 2015, with Marc Berman and Jay Graham. Session selected to be recorded and used for online continuing education credits.
- Speaker: Developing Design Guidelines for Urban Spaces in Support of Mental Wellbeing Using
  Theoretical Frameworks from Environmental Psychology and Aesthetics, 46th Annual
  Conference of Environmental Design Research Association (EDRA). Los Angeles CA, May 27-30
- Speaker: "Taking a nature Pill", UM TED-talk in MCubed Symposium, University of Michigan, Ann Arbor, Oct 2014.
- Poster: LE:NOTRE Landscape Forum- MEETING IN THE MIDDLE | A point of contact for different landscape cultures. Sustainable Tourism | strategies for landscape regeneration: "Planting design for ecological resilience and sense of place under climate change ", April, 2013
- Speaker: Natural Environment Research Council's Centre for Ecology & Hydrology, Edinburgh.

  "Translating ecological processes for the design of resilient urban green space." February 2013.
- Speaker: LE:NOTRE, European Thematic Network in Landscape Architecture: Online seminar 'Landscape Architecture and Climate Change'. "Working with climate change through ecologically resilient planting design." January 2013.
- Speaker: University of Edinburgh, College of Art and Design. "Design of urban nature in relation to human wellbeing and sense of place." June 2012.
- Speaker and panelist: AIA Detroit by Design Part 3, Urban Agriculture. "Designing for Interface between public life and urban agriculture". American Institute of Architect's sponsored public workshop for citizens, professionals and government. Detroit Main Library. June 2011.
- Speaker: University of Oregon, Department of Landscape Architecture's Research to Design series. "Using ecological theory to guide urban planting design: An adaption strategy for climate change". April 2011.
- Speaker and participant: Workshop on Building Sustainable Cities in Desert Environments, Cairo, Egypt, co-sponsored by the National Science Foundation and the Egyptian government. March 2010.
- Speaker: USFS Symposium on Ash in North America. "Impact of extensive street tree loss on sense of place in urban dwellers". Purdue University, March 2010.
- Speaker: University of Michigan Faculty Scholars Program in Integrative Medicine." The use of health-giving mind-body techniques as a path to intuitive thinking in design studio education", September 2007.
- Symposium speaker: "Managing Urban Forest Disturbance: Ecological Design for the People and the Environment" in symposium Advancing Ecological Function in Managed Ecosystems: Restoring, Revealing, and Re-inventing the Landscape Ecological Society of America / Society for Ecological Restoration, San Jose, CA, August 2007
- Organizer, speaker, panel member on Pedagogy: "Sustainability and G=D/L: A New Path for Teaching Site Engineering", CELA Conference (Council of Educators in Landscape Architecture), Vancouver, BC, June 2006.
- Speaker in Ecology series: "Achieving Sustainable Design: Collaboration among Designers, Engineers and Ecologists", Dept. Biology, Georgia State University in Atlanta, March 2005
- Speaker: "Ethical Perspectives on Practices in Sustainable Design", Environmental Ethics Program, University of Georgia, Athens, GA, March 2005

- Keynote Speaker on Ecological Sustainability for BioScience Day, "Design Innovations for a Sustainable Built Environment", Washington DC, November 2004
- Seminar series speaker: "The Relevance of Ecological Design to the Science of Sustainability", Dept. Entomology, University of Maryland, College Park, November 2004
- Speaker/Panel Member at conference "Landscaping with Native Plants: Exploring the environmental, social and economic benefits". DePaul University, Chicago, IL, December 2004
- Public Lecture: "Ecological Basis of Fine Design", School of Environmental Design seminar series, University of Georgia, April 1999,
- Invited participant: Shire Conference: "Interfacing Ecology and Landscape Architecture", Portland, Oregon, July, 1998.

### Contributed Papers-peer reviewed (Landscape Architecture):

- CELA: Council of Educators in Landscape Architecture; "Spatial contagion: Gardening along the street in residential neighborhoods"; Urbana IL March 2012
- CELA: Council of Educators in Landscape Architecture/ ISOMUL: International Study Group for the Multiple Use of Land; "Impact of extensive street tree loss on sense of place in urban dwellers"; Maastricht, Netherlands, May 2010
- CELA: Council of Educators in Landscape Architecture, "Using ecological theory to guide urban planting design in light of climate change"; Tucson AZ, January 2009
- ESA: Ecological Society of America, "Adaptation to climate change: Using ecological theory to guide urban planting design"; Milwaukee WI, August 2008

#### *Invited Presentations (Sciences, since 1990):*

Symposium Speaker; Symposium: Maternal Effects as Adaptations, Society for the Study of Evolution, St. Louis, MO. (1996)

Symposium Speaker; Symposium: Understanding population stability and outbreaks: new approaches from the study of phytophagous insects, Ecological Society of America, Knoxville, Tenn. (1994)

Seminar Speaker; Institute of Terrestrial Ecology, Millbrook, NY (1994)

Seminar Speaker; University of British Columbia, Dept. Zoology (1993)

Symposium Speaker; International Conference: Individuals, Populations & Patterns, Norwich, England (1992)

Symposium Speaker; International Symposium: Characteristics of Forest Insect Pests and Outbreaks, XIX International Conference of Entomology, Beijing, China (1992)

Seminar Speaker; McGill University, Dept. Biology, Montréal (1992)

Seminar Speaker; University of South Carolina, Dept. Biology (1992)

Seminar Speaker; University of Arizona, Dept. Biochemistry (1990)