

**Curriculum Vitae:
Leibold, Mathew A.**

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Section of Integrative Biology
University of Texas at Austin
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Education

B.S. University of Arizona, Tucson, AZ. 1980	
M.S. University of Arizona, Tucson, AZ. 1980	advisor: JH Brown
Ph.D. Michigan State University, E. Lansing, MI. 1988	advisor: EE Werner & DJ Hall
Post-doc. Duke University, Durham, NC 1989-90	advisor: HM Wilbur
Post-doc. Michigan State University, E. Lansing, MI. 1990	advisor: AJ Tessier

Professional Experience

2006-present	Professor, Section of Integrative Biology, U. Texas at Austin
2002-2006	Associate Professor, “ ”
1998-2001	Chair, Committee on Evolutionary Biology, University of Chicago.
1997-2002	Associate Professor, The University of Chicago Dept. of Ecology and Evolution, Committee on Evolutionary Biology, Committee on the Conceptual Foundations of Science,
1991-1997	Assistant Professor, “ ” “ ”.
1991-present	Adjunct Professor (Visiting), Kellogg Biological Station, Mich. St. Univ.
1989-1990	Research Associate, Dept. of Zoology, Duke University.
1988-1991	Research Associate, Kellogg Biological Station, Michigan State Univ.
1988	Instructor, Gifted and Talented Science Student Program, Kellogg Biology Station.
1981-1986	Research/Teaching Assistant, Mich. State University.
1978-1981	Technician, U. Arizona, Dept. Ecology and Evolutionary Biology.

Thesis: 'Habitat Structure and Species Interactions in Plankton Communities of Stratified Lakes'. Advisors: Earl E. Werner and Donald J. Hall

Current Research Interests:

- Regulation of trophic structure (allocation of biomass to different functional groups within ecological communities)
- Regulation of biodiversity of phytoplankton and zooplankton at different spatial scales
- Niche relations among phytoplankton and zooplankton at different spatial scales
- Effects of biodiversity on stability of ecosystems, communities, and populations
- Metacommunity ecology
- Evolutionary ecology of interacting species at different spatial scales

- 'Meta-community' phylogeography of lake organisms

Professional Societies:

Ecological Society of America
American Society of Naturalists

Honors:

Bold Regents Professor at University of Texas at Austin
Nominated for President of American Society of Naturalists

Grants:

NIMBioS (2010-2011) Synthesizing metacommunity and stoichiometry ecology theory.
NSF-DEB 0717370 (2007-2011) Evolution in pond metacommunities. \$478,000
NSF-DEB 0710200 (2007-2009) Dissertation Research: The effects of local adaptation on community composition and species interactions. \$12,000 (J.H. Pantel)
NSF-DEB 0640302 (2007-2008) OPUS: Food Web Dynamics in Pond Metacommunities. \$183,077
Texas Water Development Board (2007-2008) Using satellite imagery to study algal blooms in Texas estuaries, bays and coastal ponds. \$25,000
NCEAS (2006-2008): Evolution in Metacommunities Working Group (co-leader with Mark Urban, NCEAS). \$87,000
NSF-DEB 0235579 (2003-2006): Collaborative Research: Compensatory VS Amplifying Effects of Community Structure on Ecological Systems in Response to Environmental Fluctuations". \$400,000 (PI with Amy Downing, Ohio Wesleyan).
NSF-DEB 0508068 (2005-2007) Dissertation Research: Impacts of Migration on Pond Food Web Structure: Insights From Metacommunity Biology and Implications for Multi-Scale Diversity (J. Howeth)
NCEAS (2001-2003) Working Group: "The Meta-Community Concept: A Framework for Large-Scale Community Ecology?" \$35,000.
NSF-DEB 9815799 (1998-2003): "Testing Community Theories with Trait-by-gradient Correlations: A Comparative and Experimental Approach" (P.I., Collaborative Research with V.H. Smith, U. Kansas) \$300,000.
NSF-DEB 9509004 (1995-1998): "Biodiversity, trophic structure, and productivity—An experimental test in pond ecosystems" (P.I., Collaborative Research with V.H. Smith, U. Kansas) \$180,000.
NSF-DEB 9701120 (1997-1999): "Dissertation Research: Size-Refugia, Alternative States and Trophic Cascades in Pond Benthic Food Webs (J.M. Chase) \$9,000.
NSF-DEB-9972655 (1999-2001): "Dissertation Research: Biodiversity's Effects on Ecosystem Function and Stability in Ponds." (A.L. Downing): \$11,000.
NSF-DEB-9972656 (1999-2001): "Dissertation Research: Local vs. Regional Control of Zooplankton Community Structure." (J.B. Shurin): \$9,000.
NSF-DEB-0105014 (2001-2003): "Dissertation Research: Incorporating Ecological Stoichiometry into a Multi-trophic, Multi-resource Community Framework (S.R. Hall): \$10,000.
NSF-DEB-0206015 (2002-2004): "Dissertation Research: Spatial Subsidies and the Stability of Planktonic Food Webs in Ponds" (P. Geddes) \$5,000.

- NSF Graduate Research Training Grant. 1994-1999. "Environmental Regulation of Biodiversity: An Integrated Multilevel Training Program" (PI with J. Altmann and J. Sepkoski) \$537,500.
- USDE Graduate Advancement in Areas of National Needs 1998-2001. "Training Grant in Quantitative and Experimental Ecology" (P.I. of proposal with Co-PI's J. Bergelson, C. Pfister, E. Simms and T. Wootton). \$450,000.
- NSF-BSR 8817806 (1989-1990): "Food Web Responses to Environmental Productivity and Predation: a Direct Experimental Test in Field Mesocosms". (Co-PI with H. Wilbur, Duke, U.) \$200,000.
- NSF-BSR 9007597 (1990-1994): "Habitat Selection and the Ecological Consequences of Life-history Evolution in *Daphnia*". (Co-PI with A. Tessier, Mich. St. U.) \$250,000.
- US-Israel Binational Science Foundation 1999261 (2000-2003) "Community Structure in Deserts – the Productivity-as-Structure Hypothesis" (Co-PI with Dr. Yoram Ayal, Ben Gurion University of the Negev), \$100,000.
- USDE Graduate Advancement in Areas of National Needs. 1994-1998. "Training Grant in Quantitative and Experimental Ecology" (Co-PI and coauthor of proposal with E. Simms, M. Wade and T. Wootton,). \$900,000.
- USDE Graduate Advancement in Areas of National Needs. 2001-2003. "Training Grant in Quantitative and Experimental Ecology" (Co-P.I. and coauthor of proposal with J. Bergelson, C. Pfister, E. Simms and T. Wootton). \$573,300.

Publications

Un-refereed publications are marked with an asterisk (*).

List of Published Papers

- 1 Leibold, M. A. 1989. Resource edibility and the effects of predators and productivity on consumer-resource interactions. **American Naturalist** 134:922-949.
- 2 Leibold, M. A. 1990. Resources and predation can affect the vertical distribution of zooplankton. **Limnology and Oceanography** 35:938-944.
- 3 Leibold, M. A. 1991. Trophic interactions and habitat segregation between competing *Daphnia*. **Oecologia** 86:510-520.
- 4 Leibold, M. A. and A. J. Tessier. 1991. Contrasting patterns of body size for *Daphnia* species that segregate by habitat. **Oecologia** 86:342-348.
- 5 Leibold, M.A. and H.M. Wilbur. 1992. Interactions between food web structure and nutrients on pond organisms. **Nature** 360:341-343. (Reviewed in **Nature's** "News&Views")
- 6 Tessier, A. J., A. Young, and M. A. Leibold. 1992. Population dynamics and body size selection in *Daphnia*. **Limnology and Oceanography** 37:1-13.
- 7 Leibold, M. A. and C. West. 1993. Experimental methods for measuring the effect of light acclimation on vertical migration by *Daphnia* in the field. **Limnology and Oceanography** 38:638-643.
- 8 Leibold, M. A., A. J. Tessier, and C. West. 1994. Genetic, acclimatization and ontogenetic effects on habitat selection in *Daphnia pulicaria*. **Evolution** 48:1324-1332.
- 9 Leibold, M.A. 1995. The niche concept revisited: mechanistic models and

- community context. **Ecology** 76:1371-1382 (Special Feature: Concepts Section).
- 10 Power ME. et al. 1995. The role of experiments in ecology. **Science** 270:561-561.
 - 11 Leibold, M.A. 1996. A graphical model of keystone predation: effects of productivity on abundance, incidence and ecological diversity in communities. **American Naturalist** 147:784-812.
 - 12 Leibold, M.A. 1997. Do nutrient competition models predict nutrient availabilities in limnetic ecosystems? **Oecologia** 110:132-142.
 - 13 Tessier, A.J. and M.A. Leibold. 1997. Habitat use and ecological specialization within lake *Daphnia* populations. **Oecologia** 104:561-570.
 - 14 Leibold, M.A., J.M Chase, J. Shurin and A. Downing. 1997. Species turnover and the regulation of trophic structure. **Annual Review of Ecology and Systematics** 28:467-497.
 - 15 Leibold, M.A. 1998. Similarity and local coexistence of species from regional biotas. **Evolutionary Ecology** 12:95-110.
 - 16 Leibold, M.A. 1999. Biodiversity and nutrient enrichment in pond plankton communities. **Evolutionary Ecology Research** 1:73-95.
 - 17 Tessier, A.J., M.A. Leibold, and J.I. Tsao. 2000. A fundamental trade-off in resource exploitation by *Daphnia*. **Ecology** 81:826-841.
 - 18 Chase, J.M., M.A. Leibold, A. Downing and J.B. Shurin. 2000. Effects of productivity, herbivory and plant species turnover in grassland food webs. **Ecology** 81:2485-2497.
 - 19 Shurin, J.B., J.E. Havel, M.A. Leibold, and B. Pinel-Alloul. 2000. Local and regional zooplankton species richness: a scale-independent test for saturation. **Ecology** 81:3062-3073.
 - 20 Chase, J.M., M.A. Leibold and E.L. Simms. 2000. Plant tolerance and resistance in food webs: Community-level prediction and evolutionary implications. **Evolutionary Ecology** 14:289-314.
 - 21 Leibold, M.A. and G.M. Mikkelsen. 2002. Coherence, species turnover, and boundary clumping: Elements of meta-community structure. **Oikos** 97:237-250.
 - 22 Chase, J.M. and M.A. Leibold. 2002. Spatial scale dictates the productivity-biodiversity relationship. **Nature** 416:427-430.
 - 23 Downing, A.L. and M.A. Leibold. 2002. Ecosystem consequences of species richness and composition in pond food webs. **Nature** 416:838-841.
 - 24 Horner-Devine, M.C., M.A. Leibold, V.H. Smith and B.J.M. Bohannan. 2003. Bacterial diversity patterns along a gradient of primary productivity. **Ecology Letters** 6:613-622.
 - 25 Shurin, J.B., P. Amarasekare, J.M. Chase, R.D. Holt, M. Hoopes and M.A. Leibold. 2003. Alternative stable states and regional community structure. **Journal Theoretical Biology** 227:359-368.
 - 26 Steiner, C.F. and M.A. Leibold. 2004. Cyclic assembly trajectories and the generation of scale-dependent productivity-biodiversity relationships. **Ecology** 85:107-113.
 - 27 Leibold, M.A. and J. Norberg. 2004. Plankton metacommunities as self-organized adaptive systems. **Limnology and Oceanography** 49: 1278-1289. (Special Issue: Plankton Biodiversity)

- 28 Leibold, M.A., M. Holyoak, N. Mouquet, R.D. Holt, D. Tilman and 7 others. 2004. The metacommunity concept: a framework for large scale community ecology? **Ecology Letters** 7:601-613.
- 29 Hall SR, **Leibold MA**, Lytle DA, and Smith VH. 2004. Stoichiometry and planktonic grazer composition over gradients of light, nutrients, and predation risk. **Ecology** 85:2291-2301.
- 30 Hall SR, Smith VH, Lytle DA, and Leibold MA. 2005. Constraints on primary producer N : P stoichiometry along N : P supply ratio gradients. **Ecology** 86:1894-1904.
- 31 Smith, V.A., B.L. Foster, J.P. Grover, R.D. Holt, M.A. Leibold, and F. deNoyelles. 2005. Phytoplankton species richness patterns: Scale-invariance from laboratory microcosms to the world's largest lakes. **PNAS** 102:4393-4396
- 32 Hall SR, Leibold, MA, Lytle DA and Smith VH. 2006. Inedible producers in food webs: Controls on stoichiometric food quality and composition of grazers. **American Naturalist** 167:628-637.
- 33 Leibold, M.A. and M.A. McPeck. 2006. Coexistence of the niche and neutral perspectives in community ecology (invited 'Special Features' paper on 'The neutral theory of biodiversity'). **Ecology** 87:1399-1410.
- 34 Hall SR, Leibold MA, Lytle DA, Smith VH. 2007. Grazers, producer stoichiometry, and the light : nutrient hypothesis revisited. **Ecology** 88:1142-1152
- 35 Horner-Devine MC, Silver JM, Leibold MA, Bohannan BJM, Colwell RK, Fuhrman JA, Green JL, Kuske CR, Martiny JBH, Muyzer G, Ovreas L, Reysenbach AL, Smith VH. 2007. A comparison of taxon co-occurrence patterns for macro- and microorganisms. **Ecology** 88:1345-1353
- 36 Loeuille N and Leibold MA. 2008. Evolution in metacommunities: on the relative importance of species sorting and monopolization in structuring communities. **American Naturalist** 171:788-799.
- 37 Howeth, JG and Leibold MA. 2008. Planktonic dispersal dampens temporal trophic cascades in pond metacommunities. **Ecology Letters** 11:245-257.
- 38 Urban MC, Leibold MA, Pantel JH, Loeuille N, Vellend M, Amarasekare P, Klausmeier CA, Norberg J, De Mazancourt C, Gomulkiewicz R, Hochberg ME, Strauss SY, De Meester L, Wade MJ. 2008. Evolutionary ecology of metacommunities. **Trends in Research In Ecology and Evolution** 23:311-317.
- 39 Loeuille N and Leibold MA. 2008. Ecological consequences of evolution in plant defenses in a metacommunity. **Theoretical Population Biology** 74:34-45.
- 40 Downing AL, Brown BL, Perrin EM, Keitt TH and Leibold MA. 2008. Environmental fluctuations induce scale-dependent compensation and increase stability in plankton ecosystems. **Ecology** 89:3204-3214.
- 41 * Leibold MA. 2008. Ecology – Return of the Niche. **Nature** 454:39-40
- 42 Carpenter, SR., Armbrust, B, Arzberger P. Chapin FS,... Leibold MA, ...(19 authors). 2009. Synthesis must be accelerated in ecology and environmental sciences. **BioScience** 59:699-701.
- 43 Howeth JG and Leibold MA. 2010. Species dispersal rates alter diversity and ecosystem stability in pond metacommunities. **Ecology** 91:2727-2741.

- 44 Howeth JG and Leibold MA. 2010. Prey dispersal rate affects prey species composition and trait diversity in response to multiple predators in metacommunities. accepted pending revisions. **Journal of Animal Ecology** **79:1000-1011**.
- 45 Downing AL and Leibold MA. 2010. Species richness facilitates ecosystem resilience in aquatic food webs. **Freshwater Biology** **55:2123-2137**
- Leibold MA, Economo EP and Peres-Neto-P. 2010. Metacommunity phylogenetics: separating the roles of environmental filters and historical biogeography. *Ecology Letters* 13:1290-1299.

Chapters in Books

- 45 Mittlebach, G., C. Osenberg, and M. Leibold. 1988. Trophic relations and ontogenetic niche shifts in aquatic ecosystems. In B. Ebenman and L. Persson (eds). **Size-structured Populations: Ecology and Evolution**. Springer-Verlag, Berlin.
- 46 Leibold, M.A. and A.J. Tessier. 1997. Habitat structure and the structure of lake plankton communities. In B. Streit, T. Stadler and C.J. Lively (eds). **Ecology and Evolution of Freshwater Animals**. Birkhouser Publ., Basel.
- 47 Leibold, M.A. and A.J. Tessier. 1998. Experimental compromise and mechanistic approaches to the evolutionary ecology of *Daphnia* assemblages. In W.J. Resetarits and J. Bernardo (eds.). **Perspectives in Experimental Ecology**. Oxford U. Press.
- 48 Leibold, M.A. and T.E. Miller. 2003. From metapopulations to metacommunities. In I. Hanski and O. Gaggioti (eds). **Ecology, Genetics, and Evolution of Metapopulations**.
- 49 Leibold, M.A., S.R. Hall and O. Bjornstad. 2005. Food web architecture and its effects on consumer resource oscillations in experimental pond ecosystems. In J. Moore and P. deRuyter and V. Wolters (eds). **Food Webs**. Academic Press.
- 50 Leibold, M.A., M. Holyoak and R.D. Holt. 2005. Adaptive and co-Adaptive dynamics in metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale**. University of Chicago Press.
- 51 Holyoak, M., M.A. Leibold, N. Mouquet and R.D. Holt. 2005. Metacommunities: a framework for large scale community ecology. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale**. University of Chicago Press.
- 52 Chase, J., N. Mouquet, P. Amarasekare, R.D. Holt, M. Holyoak, M. Hoopes, M.A. Leibold, M. Loreau, J. Shurin, and D. Tilman. 2005. Competing theories for competitive metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale**. University of Chicago Press.
- 53 Holt, R.D., M Holyoak and M.A. Leibold. 2005. Future directions in metacommunity ecology. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale**. University of Chicago Press.
- 54 Holyoak, M., M.A. Leibold and R.D. Holt. 2005. Coda. In Holyoak, Leibold and Holt

- (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.
- 55 Law, R. and M.A. Leibold. 2005. Assembly dynamics in metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.
- 56 Leibold MA. in press. Spatial dynamics and metacommunities. In S. Levin and M. Loreau (eds). *Guide to Ecology.* Princeton U. Press.
- 57 Leibold MA. in press. The metacommunity concept and its theoretical underpinnings. In: Scheiner, SM and Willig MR (eds). *The Theory of Ecology.*

Books

- 58 Elton, C. “**Animal Ecology**”, 1927. Reprinting with *additional text* by MA Leibold and JT Wootton, 2001. U. Chicago Press.
- 59 Chase, J.M. and M.A. Leibold. 2003. “**Ecological Niches**”, U. Chicago Press.
- 60 Leibold, M.A. “**Food Webs and Productivity: A Meta-Community Approach**”. Princeton Monographs in Population Biology Series. (advanced contract).
- 61 Holyoak, M., M.A. Leibold, and R. Holt (eds). 2005. **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** In press, University of Chicago Press.

Surveys, Editorials, and Reviews

- 62 Leibold, M. A. 1992. Population dynamics and the Tribolium model (book review). **Science** 56:1838. *
- 63 Leibold, M.A. 1994. Mutualism and community organization (book review). **Quarterly Review of Biology** 69:542-543. *
- 64 Mikkelsen, G.M. and M.A. Leibold. 1995. The ecosystem concept, schism or synthesis? (book review). **Perspectives in Biology and Medicine** 38:297-299. *
- 65 Leibold, M.A. 1996. Versatility in ecology (book review). **Ecology** *
- 66 Leibold, MA. 2002. “Ecological Niche”: entry in N. Eldredge (ed). “**The Encyclopedia of Ecology, Evolution, and Biodiversity**”. ABS-CLIO, Santa Barbara, Ca. *

University Courses Taught

Undergraduate

At University of Chicago

Evolutionary Ecology

Animal Behavior

Environmental Ecology

At The University of Texas at Austin

Ecology (BIO 373) – for Spring 2005-2006
Limnology (BIO456) – Fall 2006

Graduate

At University of Chicago

Experimental Evolutionary Ecology
Species Diversity
Conservation Biology
Concepts in Ecology
Community Ecology
Grant Writing and Publications

At The University of Texas at Austin

Issues in Population Biology (384L) – Fall 2003
Community and Ecosystems Ecology (384K) – Spring 2004
Topics in Ecology (384K) – Fall 2004
Introduction to Ecology, Evolution, and Behavior (384C) – Fall 2004-2008
Community and Population Dynamics (384K) – Fall 2006

Tutorials and Short Courses Taught

15 taught at U. Chicago on various ecological topics

Ph.D. Dissertations Supervised

Chase, JM. Size-structured interactions and multiple domains of attraction in pond food webs. Assist. Prof. Washington University, St. Louis, MO.
Airame, S. Population structure and viability of stream-dwelling frogs on Borneo (Anura). Science and Policy Coordinator, Partnership for Interdisciplinary Studies of Coastal Oceans, University of California, Santa Barbara. Researcher, NOAA, Santa Barbara.
Shurin, J. Local and regional influences on the structure of freshwater zooplankton communities. Assistant Professor, University of British Columbia, Vancouver
Downing, AL. The role of biological diversity for the functioning and stability of pond ecosystems. Assistant Professor, Ohio Wesleyan University, Delaware OH
Hall, SR. Species sorting and biomass partitioning along light:nutrient:predation risk gradients in planktonic pond ecosystems. Assistant Prof., Indiana University, Bloomington, Ind.
Geddes, P. Effects of allochthonous inputs and subsidies on pond ecosystems. Assistant Prof, Northern Illinois University, DeKalb, IL.
Howeth, JG. Post-doc, Yale University.
Pantel, JH. Post-doc, U. Illinois Champaign-Urbana.

Masters Theses Supervised

Mikkelsen, GM. How do food webs fall apart? Assistant Prof., McGill University, Montreal, Canada.

Undergraduate Honors Theses Supervised

Bordalen, A. Social behavior of giraffe in Tanzania. Grad student, U. Minnesota.
Franke, D. Grazer mediated competition in duckweeds. Post-doc, U.C.-Davis.
Cohen, G. Dispersal in pond zooplankton. Conservation Scientist, NY City, NY.

Service

Departmental Committees:

At University of Chicago

Plant Population Biologist Search Committee	1991
Evolutionary Ecologist Search Committee	1992
Department Curriculum Committee	1992-1993
Natural History Seminar coordinator	1991-1994
Ecologist Search Committee	1993
Department Seminar coordinator	1992-1998
G.A.A.N.N. training grant steering committee	1994-1998
Ecology & Evolution Grad Admissions Committee	1997-1998
Ecology & Evolution Dept. Executive Committee	1997-1998
Ecology & Evolution Student Advisory Committee (chair)	1997-2000
Behavior Search Committee	1997
Ecology and Evolution Search Committee (co-chair)	1998
Ecology & Evolution Dept. Seminar Committee	2001-2003

At The University of Texas at Austin

Ecology Search Committee	2003-2004
Third-year evaluation committee (M. Litvak)	2003-2004
Graduate Student Evaluation and Fellowship Committee	2004-present
Third-year evaluation committee (T. Keitt)	2004-2005
Ecology Search Committee	2005-2006
Graduate Admissions Committee	2006-present
Ecology Search Committee (chair)	2007-present

College/University Service

At University of Chicago

Chair, Committee on Evolutionary Biology (CEB)	1998-2001
Univ. Rep. to the Organization for Tropical Studies	1991-1995
Res. Train. Grant proposal Committee, CEB	1991-1992
CEB Graduate Student Advisory Committee	1992-1998
Bio. Sci. Div. Dept. Rev. Com. for Com. Hu. Nut. & Nut. Biol.	1995
CEB Grad. Admissions Committee	1997-1998
Bio. Sci. Div. Inter-cluster Grad. Stud. Steering Comm.	1997-2003
University Board of University Publications	1997-2000
BSCD Ad Hoc Tenure Review Committee	1998, 2000
University-wide Committee on International Programs	2000-2001
CEB Grad. Admissions Committee	2001-2003

CEB Animal Care Committee (chair) 2001-2003

At University of Texas

Marine Modeller Search UTMSI 2004-2005
Coastal Ecology Search UTMSI 2006-2007
Committee on Promotions and Tenure 2007-2008

Conference Speaker Presentations (all were invited presentations)

- 1987 American Society of Limnology and Oceanography (ASLO). Symposium on Predator-Induced Prey Responses, Madison, Wi.
- 1987 Effects of vertical migration on *Daphnia* competition. Zooplankton Behavior Symposium, Skidaway Institute, U. of Georgia, Savannah, Georgia.
- 1989 Effects of habitat partitioning on competition between *Daphnia* species. Davis Conference on Population Structure, U. C. Davis.
- 1991 ASLO Special Symposium: Food Quality for Consumers in Marine and Freshwaters. Halifax, Nova Scotia.
- 1992 ASLO Symposium on Trophic Interaction in Aquatic Communities. Santa Fe.
- 1995 American Society of Zoology Symposium on Experimental Community Ecology.
- 1997 Conference on Biodiversity and Conservation, Kyoto, Japan
- 1999 Ecological Society of America (ESA) Symposium on "Plant Herbivore Interactions in an Ecosystem Context".
- 2000 ASLO Symposium on "The interface between theory and field experiment: getting beyond yes-or-no answers". Copenhagen.
- 2001 ESA Symposium on "Metacommunities". Madison Wisc.
- 2001 Gordon Conference on Plant-Herbivore Interactions. Ventura, Ca.
- 2002 Plankton Biodiversity Symposium/Workshop. Ann Arbor, Mich.
- 2003 Food-web Symposium, Giessen. Germany
- 2004 Niche Concept Symposium. Keynote speaker. Buenos Aires, Argentina 2004
- 2005 ASLO, Plenary Speaker on Biodiversity in Aquatic Ecosystems. Salt Lake City, 2005
- 2005 Shallow Lakes Congress, Aquatic Biodiversity & Ecosystem Functioning, Keynote Speaker, the Netherlands
- 2007 Metacommunity Workshop. Fribourg, Switzerland. Keynote speaker.
- 2008 Metacommunity Program. Uppsala, Sweden. Keynote lecturer.
- 2008 Texas A&M Annual Ecological Integration Symposium – Keynote speaker

Colloquia and Workshop Talks (all were invited talks)

- 2009** Southern Illinois University Carbondale
Cornell University
U. North Carolina
- 2008** Iowa State University
Katholik University Leuven (Belgium)
- 2007** CNRS Montpellier
Rice University
Louisiana State University

- 2006** Pennsylvania State University
- 2005** Georgia Tech University
- 2004** McGill University, Montreal
University of Amsterdam
Stanford University
Dartmouth College
- 2003** University of Ludwig Maximilian Munich
National Center for Ecological Analysis and Synthesis – Santa Barbara
- 2002** Universite de Montreal
Gettysburg College
The University of Texas-Austin
Yale University
SUNY- Binghamton
- 2001** University of Chicago
University of Michigan- Ann Arbor
Conceptual Foundations of Science Workshop. University of Chicago
Ecole Normale Superieure, Paris
- 2000** University California-Berkeley.
University of Missouri, St. Louis.
University of California - Davis
University of Tennessee, Knoxville, (annual graduate student special speaker)
University of Umea, Umea, Sweden (four seminars, special speaker in ecology)
Kellogg Biological Station, Michigan St. Univ.
Swedish Agricultural University, Uppsala
- 1999** Laboratoire d'Ecologie, Ecole Normale Superieure, Paris, France
Centre for Population Biology, Imperial College, Silwood, England (two seminars)
Dept. Biol. Rice University, Houston, TX.
Dept. Geosci. University of Chicago.
Dept. Biol., Univ. Maryland
- 1998** Dept. Biology, University of New Mexico
Committee on the Conceptual Foundations of Science, U Chicago
Department of Biology, University of Kansas, Lawrence, KA.
- 1997** Center for Microbial Ecology grad-student retreat, Michigan State University
Section on Ecology and Evolution, U. California, Davis (2 seminars)
Department of Ecology and Evolution, University of California, Irvine. (2 seminars)
Department of Ecology, Behavior and Evolution, U. Minnesota (2 seminars)
Department of Ecology and Evolution, SUNY-Stony Brook, N.Y.
- 1996** Department of Biology Utah State University, UT.
Pymatuning Biology Station, University of Pittsburg, PA.
Department of Zoology, University of Washington, Seattle, WA.
Nelson Labs., Rutgers University, Piscataway, N.J.
Ecology and Evolutionary Biology Program, Michigan State Univ., E. Lansing, MI.
Department Ecology and Evolution, University of Chicago, Chicago, IL.
- 1995** Dept. Biol. Sci. Univ. California-Santa Barbara, CA.

- Div. Biol. Sci. Univ. Michigan, Ann Arbor, MI.
 Dept. Bio. Sci. Miami University, Miami, OH.
- 1994** Dept. Ecol. Ethol. Evol., Univ. Illinois-Urbana, IL.
 Dept. Zool., Univ. Brit. Columbia, Vancouver, B.C.
 Dept. Biol., Northern Illinois, Dekalb, IL.
 Sec. Ecol. & Syst. Cornell Univ. Ithaca, N.Y.
 Dept. Biosci., Dartmouth College, Hanover, N.H.
- 1993** Dept. Biol., University of Illinois, Chicago, IL.
 Kellogg Biological Station, Kalamazoo, MI.
 Dept. Geophys. (EvMorph), Univ. Chicago, Chicago, IL.
- 1992** Dept. of Biological Sciences, Florida State University.
 Dept. Ecol. Evol. (NHS), Univ. Chicago, Chicago, IL.
 Argonne National Laboratories, Chicago, IL.
 Department of Biological Sciences, Indiana University.
- 1991** Dept. of Biological Sciences, Univ. Illinois-Chicago.
 Dept. of Zoology, Univ. Wisconsin-Milwaukee.
 Ecology and Evolutionary Biology Program, Michigan State Univ.
- 1990** Kellogg Biological Station, Hickory Corners
 Dept. of Biology, S.U.N.Y.-Binghamton.
 Dept. of Ecology and Evolution, University of Chicago, IL.
- 1989** Population and Genetics Seminar Group, Duke University.
 Dept. of Biological Science. University of Notre Dame.
- 1988** Dept. of Biology, Ohio State University.
 Dept. of Biological Science, University of Michigan.
- 1987** Dept. of Zoology, North Carolina State University.
 Savannah River Ecology Laboratory, University of Georgia

Professional Services:

Journal Editing and Editorial Boards

American Naturalist – Associate Editor	1998-2002
University of Chicago Press - University Board of Publications	1997-2000
Ecological Research – Associate Editor	2007-present
Faculty of 1000 – Editor (Biodiversity)	2005-present
American Naturalist – Associate Editor	2008- present

Workshops and Specialized Conference Program Committees

- National Center for Ecological Analysis and Synthesis (NCEAS) working group on 'Evolution in Metacommunities (co-leader)
- National Center for Ecological Analysis and Synthesis (NCEAS) working group on Metacommunities (leader)
- NCEAS working group on microbial diversity (invited participant)
- NCEAS working group on 'universal phenomena in ecology' (invited participant)
- NSF Workshop on Directions in Zooplankton Population Biology, 1989. Kellogg Biological Station, Hickory Corners, Michigan. (invited participant)
- Workshop in Microbial Community Ecology. Center for Microbial Ecology, Michigan State University. 1995. (invited participant)

Workshop on Future Directions in Ecology of Pitcher Plants, Wakulla, FL., 2001 (invited participant)

Workshop on Synthesis of Plankton Diversity. Woods Hole, MA., 2001 (invited participant)

Journal, Conference, and Book Reviewing

Science

Nature

PNAS

Proc. Roy. Soc London

American Naturalist

Ecology

Theoretical Population Biology

Journal Theoretical Biology

Oecologia

Oikos

Ecology Letters

Botanical Gazette

Evolutionary Theory

Israel Journal of Zoology

Archiv fur Hydrobiologie

Can. J. Fish. and Aquat. Sci.

University of Chicago Press

Prentice Hall

Blackwell Press

Grant Proposal Reviewing

NSF Grant review panelist: Ecology 1998,1999,2000,2001, 2005, 2009; Diss. Improv. Grants 2002

NSF peer review of grant proposals: Ecology, Population Biology, Oceanography (typically about 5/year in addition to service on panel)

Additional reviews for:

National Geographic Society

NSERC (Canada)

Fonds pour la Formation de Chercheurs et l'Aide a la Recherche (Canada),

Israel National Science Foundation

Netherlands Organization for Scientific Research

Dutch National Science Foundation

Belgian Center for Science Research

Other Service

1999-2002 National Center for Ecological Analysis and Synthesis, Science Advisory Board.

2002-2006 Resilience Alliance (Conservation Ecology) – Member's Board

1999-2008 Ecological Society of America – E.S.A. Research Committee

2003 Ecological Society of America – E.S.A. Nomination Committee

Tenure and promotion evaluations: U. Oklahoma, U.C. Davis, U. Pittsburgh, Yale U., U.

Victoria (Canada), U. Washington, Ben Gurion University (Israel), U. Montana, U.
Illinois. U. York (Canada)
NSF-NEON advisory workshop
Graduate Program Evaluation – University of Oklahoma (for graduate program in
Ecology, Evolution and Behavior)