

Curriculum Vitae

LAWRENCE J. WEIDER

Department of Zoology
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and

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Position: Professor and Director, The University of Oklahoma Biological Station (UOBS)

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Birthplace: Rochester, New York

Citizenship: U.S.A.

Languages: German
French (reading comprehension)

Education

1984 Ph.D. - **University of Illinois at Urbana-Champaign**, Department of Ecology, Ethology,
and Evolution

Thesis: Spatial and temporal genetic heterogeneity in a natural *Daphnia* population:
Ecological and physiological differences between genotypes.

Major adviser: Dr. Michael Lynch

1978 B.S. (Biology/Chemistry, Magna cum laude) - St. Bonaventure University, New York.

Areas of Research Interest

Evolutionary ecology, population/ecological genetics, population ecology, physiological ecology, aquatic ecology, arctic ecology, life-history evolution, metapopulation dynamics, conservation ecology.

Research Experience

July 2005 – present: Professor, University of Oklahoma (OU) Department of Zoology; Director, The University of Oklahoma Biological Station (UOBS).

January 1999 – June 2005: Associate Professor, OU Department of Zoology; Director, UOBS.

September 1990 - December 1998: Associate Research Scientist, Max-Planck-Institut für Limnologie, Plön, Germany. Project titles: (i) phylogenetics and ecological genetics of asexual species complexes; (ii) breadth of adaptation in sexual vs. asexual populations; (iii) niche breadth and life history variation among interspecific hybrids and parentals; (iv) impact of disturbance on maintenance of genetic diversity; (v) influence of predator chemical cues on prey life histories and behaviour; (vi) mechanisms maintaining genetic variation in clonal populations; (vii) long-term temporal shifts in population genetic structure assessed from dormant egg bank propagules.

September 1988 - August 1990: Assistant Professor (limited-term), Department of Biological Sciences, Great Lakes Institute, University of Windsor, Windsor, Ontario, Canada. Project titles: (i) "Ecological genetics of asexual aquatic invertebrates"; (ii) "The impact of toxic contaminants on mutation rates in fish"; (iii) "Development of a comprehensive stream survey for the Little River, Essex County, Ontario".

June 1987 - August 1988: Postdoctoral Fellow, Max-Planck-Institut für Limnologie, Plön, Germany. Project title: "Population genetics and ecophysiology of aquatic invertebrates".

June 1984 - June 1987: Postdoctoral Fellow, Department of Biological Sciences, University of Windsor, Ontario, Canada. Project title: "Ecological genetics of arctic populations of aquatic invertebrates".

January - May 1984: Graduate Research Assistant, University of Illinois. Project title: "The ecological genetics of *Daphnia pulex* populations".

October - December 1983: Research Fellow, Max-Planck-Institut für Limnologie. Project title: "Differential response of *Daphnia* genotypes to oxygen stress: respiration rates, hemoglobin content, and low oxygen tolerance".

January - October 1983: Graduate Research Assistant, University of Illinois. Project title: "The ecological genetics of *Daphnia pulex* populations".

October - December 1982: Research Fellow, Max-Planck-Institut für Limnologie. Project title: "Measuring the carbon balance in *Daphnia*".

January 1981 - October 1982: Graduate Research Assistant, University of Illinois. Project title: "The ecological genetics of *Daphnia pulex* populations".

August - December 1980: Graduate Research Assistant, University of Illinois. Project title: "Apparent vs. non-apparent eutrophication: the interactions of enrichment and fish predation".

May - August 1980: Graduate Research Assistant, University of Illinois. Project title: "The ecological genetics of *Daphnia pulex* populations".

January - May 1980: Graduate Research Assistant, University of Illinois. Project title: "The adaptive significance of cladoceran life-histories".

Teaching Experience

Professor, Univ. of Oklahoma, **Global Environmental Change**, Summer 2008

Professor, Univ. of Oklahoma, **Ecological Genetics**, Spring 2006, 2007, 2009.

Professor, Univ. of Oklahoma, **Ecology & Evolutionary Biology (EEB) Graduate Seminar**, Fall 2005 to Spring 2009.

Associate Professor, Univ. of Oklahoma, **Conservation Genetics**, Spring '01, '03, '05, '08.

Associate Professor, Univ. of Oklahoma, **Molecular Ecology**, Spring 2000, 2002, 2004.

Research Scientist: MPI, "**Molecular Methods in Ecology and Systematics**", hands-on lab experience and training of various students (graduate, undergrad., high-school level), technicians, technicians-in-training (AZUBIS), postdocs, and visiting scientists from 1992-1998.

Research Scientist: MPI, **Arctic Ecology Field Course**, (guest lecturer), University of Guelph, Ontario, August 1994, Science Institute of the Northwest Territories, Igloodik.

Research Scientist: MPI, **Graduate Seminar - Population and Community Ecology** (co-instructor), Spring 1991.

Assistant Professor: U. of Windsor, **Evolutionary Ecology**, Spring 1990.

Assistant Professor: U. of Windsor, **Undergraduate Research Seminar**, (co-instructor), Spring 1990.

Guest Lecturer: U. of Windsor, **Applied Ecology**, Fall 1989.

Guest Lecturer: U. of Windsor, **Evolution**, Spring 1989.

Guest Lecturer: U. of Windsor, **Aquatic Ecology**, Fall 1985, 1986, 1989.

Visiting Lecturer: U. of Illinois, **Limnology**, Fall 1981.

Graduate Teaching Assistant: U. of Illinois, **General Biology**, (non-majors), Spring 1979.

Graduate Teaching Assistant: U. of Illinois, **Limnology**, Fall 1978, 1979.

Awards and Recognition

- 1987 Postdoctoral Fellowship: Max-Planck-Gesellschaft, Federal Republic of Germany.
1984 Postdoctoral Fellowship: NSERC, Canada.
1984 Sigma Xi Student Paper Competition, University of Illinois.
Paper title: "Spatial heterogeneity of *Daphnia* genotypes: vertical migration and habitat partitioning".
1983 Pre-doctoral Research Fellowship: Max-Planck-Institut für Limnologie, Germany.
1982 Pre-doctoral Research Fellowship: Max-Planck-Institut für Limnologie, Germany.
1978 Distinguished Biology Undergraduate Student (Honorable Mention), St. Bonaventure University.
1977 Elected President of the Delta Epsilon Sigma Honor Society, St. Bonaventure University Chapter.

Grants and Funding Held (TOTAL: \$2,648,517) (external: \$2,266,871; internal: \$381,646)

2009-2012 **\$363,691** – National Science Foundation (NSF) – DEB; IOS-OEI “Collaborative Research: Organism-environment interactions - impact of cultural eutrophication on *Daphnia* tracked by genomics, physiology and resurrection ecology”, (part of a larger **\$777,828** project with Oklahoma State Univ.; LJ Weider PD/PI; PD Jeyasingh co-PI).

2008-2009 **\$6,400** – University of Oklahoma Research Council, “Global climate change: Examining ecological genetic changes in arctic *Daphnia* rock pool populations during the past ~25 years”.

2008-2009 **\$3,000** (approx.) – Northern Research Fund – Churchill Northern Studies Centre (CNSC) – “Global Climate Change: Examining Ecological Genetic Changes in the Churchill Rockpool *Daphnia* populations during the past ~25 years.”

2007-2010 **\$450,000** (approx.) – European Union Marie Curie Outgoing International Postdoctoral Fellowship Program; “EVOLEXOTIC” – (D. Frisch, PI, L.J. Weider and A. Green, co-PIs).

2007-2008 **\$44,750** – University of Oklahoma College of Arts & Sciences (CAS) Instructional Technology Program – “Improvements and Upgrading of the Instructional Computing Capabilities for Wireless Internet Access at The University of Oklahoma Biological Station (UOBS)”, (L.J. Weider, P.I.)

2006-2007 **\$2,710** – University of Oklahoma Research Council, “NSF proposal enhancement: Tolerance constraints and genetic specialization” (L.J. Weider, PI; Total cost of project is **\$3,210** including a **\$500** UOBS match).

2005-2006 **\$4,900** – University of Oklahoma Research Council, “The ecology and genetics of an exotic invasive species, *Daphnia lumholtzi* (L.J. Weider, PI; Total cost of project is **\$5,950**, including a **\$1,050** UOBS match).

2004-2006 **\$179,921** – National Science Foundation – Multi-user Equipment (MUE) Program, “A capillary DNA sequencer, quantitative PCR machine, and phosphor/fluorescent digital imager for the University of Oklahoma Department of Zoology”, (R. Broughton, PI, L.J. Weider, D. Durica, R. Hewes, co-PIs; Total cost of project is **\$257,030**, including a **\$77,109** institutional match).

2003-2004 **\$19,113** – University of Oklahoma College of Arts & Sciences (CAS) Instructional Technology Program – “Improvements and Upgrading of the Instructional Computing Capabilities at The University of Oklahoma Biological Station (UOBS)”.

2003-2004 **\$1,000** – OU Presidential International Travel Fellowship Program, “Increasing Exchange ties with the Blaise-Pascal University Field Station in Besse, France”.

2002-2005 **\$187,500** – National Science Foundation – Field Stations & Marine Labs (FSML) Program: “Expansion of the Housing Facilities for Guest Researchers at the University of Oklahoma Biological Station”. (L.J. Weider, PI, K.D. Hambright and G.A. Wellborn, co-PIs). (Total amount of **\$350,000**, which includes a **\$162,500** institutional match.)

2001-2002 **\$22,314** – The University of Oklahoma Research Council – “Molecular ecology and evolution facility” (L.J. Weider, PI, G.A. Wellborn, J.N. Thompson, C.C. Vaughn, L.Vitt, co-PIs).

2000-2001 **\$24,800** – University of Oklahoma College of Arts & Sciences (CAS) Instructional Technology Program – Expansion of the Instructional Computing Capabilities at The University of Oklahoma Biological Station (UOBS).

2000-2001 **\$39,284** - Oklahoma Department of Wildlife Conservation, “Stock identification of Striped Bass in Lake Texoma using Molecular Markers” (L.J. Weider, PI).

1999-2004 **\$386,717** – National Science Foundation - Integrated Research Challenges in Environmental Biology (IRCEB), “Biological Stoichiometry: from genes to ecosystems”. Co-PI, as part of a larger (**\$2,842,162**) proposal with research teams at Arizona State U., U. of Minnesota, U. of Arizona, and U. of Washington.

1999-2000 **\$3,000**, The University of Oklahoma Research Council – “Travel Support for SWEDARCTIC Tundra Northwest ‘99 Expedition.”

1999-2000 **\$8,000**, The University of Oklahoma College of Arts & Sciences – “Instructional Computer Upgrade and Enhancement for The University of Oklahoma Biological Station (UOBS)”. (L. J. Weider and W. J. Matthews, co-PIs).

1997-2000 **259,700 DM** (\$150,000) - Max-Planck-Gesellschaft Starker-Werner Fond. "Dauerstadien-Banken in Seesedimenten: eine Möglichkeit, Populationen zu untersuchen, die während der anthropogenen Veränderung von Seen verschwunden sind". (W. Lampert and L. J. Weider, co-PIs).

1997-1998 **20,000 DM** (\$13,000) - German (DAAD) Academic Research Exchange Grant (in conjunction with NSF submission by N.G. Hairston Jr, Cornell Univ.), "Migration from the past: Fitness characters of zooplankton from long-lived dormant stages", (W. Lampert, L. J. Weider, and N. G. Hairston Jr., co-PIs). To support inter-laboratory travel for Plön research team to visit Cornell University.

1997-1999 **\$160,000** (approx.) - Swedish Polar Research Secretariat, Royal Swedish Academy of Sciences, Tundra Northwest 1999, "Ecology, phylogeography and genetic diversity of an arctic *Daphnia* species complex", (A. Hobæk and L..J. Weider, co-PIs).

1995-1996 **125,000 BF** (\$4,200) - NATO Collaborative Research Grant Program (funding inter-laboratory travel). "Ecological genetics of arctic *Daphnia*: Model for monitoring environmental change". Renewal application. Project coordinator: L.J. Weider; collaborators: A. Hobæk, T. J. Crease, and P.D.N. Hebert.

1995 **2,100 DM** (\$1,500) Deutsche Forschungsgemeinschaft (DFG) Travel Grant to attend Society for the Study of Evolution meeting, July 1995, Montreal, Canada

1994-1997 **£30,000** (\$54,000) - NERC-CASE Grant, "Ecological differentiation and clonal coexistence of *Daphnia* genotypes", (G.R. Carvalho and L.J. Weider, co-PIs).

1993-1994 **20,000 Nkr** (\$4,000) - Norwegian Polar Research Institute Grant - "Ecological genetics of Greenland and Iceland *Daphnia*", (A. Hobæk and L. J. Weider co-PIs).

1993 **25,000 FF** (\$5,000) - European Science Foundation Grant to fund "Evolutionary Ecology of Clonal Organisms" Workshop, 26-28 June, Plön, Germany.

1992-1994 **200,000 BF** (\$6,500) - NATO Collaborative Research Grant Program (funding inter-laboratory travel). "Ecological genetics of arctic *Daphnia*: Model for monitoring environmental change". Project coordinator: L.J. Weider; collaborators: A. Hobæk, T. J. Crease, and P.D.N. Hebert.

1992-1993 **25,000 Nkr** (\$5,000) - Norwegian Polar Research Institute Grant - "Ecological genetics of Svalbard *Daphnia*", (A. Hobæk and L. J. Weider, co-PIs).

1992 **2,000 DM** (\$1,200) - European Science Foundation Travel Grant - Network on Population Ecology and Genetics.

1991 **2,000 DM** (\$1,200) - British-German Academic Research Exchange Program Travel Grant.

1989-1992 **\$66,000 CDN** - Natural Sciences and Engineering Research Council (NSERC), Canada, Operating Grant, "Ecological genetics of asexual aquatic invertebrates".

1989-1992 **\$15,789 CDN** - NSERC Equipment Grant, "Compound microscope and photomicrographic unit", (L.J. Weider and S.S. Schwartz, co-PIs).

1989-1990 **\$169,369 CDN** - Contract from the City of Windsor and the Ontario Ministry of the Environment, "Little River comprehensive stream study - Little River basin pollution control plan", (granted to Great Lakes Institute, University of Windsor, Ontario).

1988-1989 **\$3,500 CDN** - University of Windsor Research Board, "Population ecology and genetics of aquatic invertebrates".

Publications:

- 62.) Hessen, D.O., P.D. Jeyasingh, M. Neiman, and **L.J. Weider**. 2010. Genome streamlining and the elemental costs of growth. *Trends in Ecology & Evolution* (in press).
- 61.) Frisch, D. and **L.J. Weider**. 2010. Seasonal shifts in genotype frequencies in the invasive cladoceran *Daphnia lumholtzi* in Lake Texoma, USA. *Freshwater Biology* (in press).
- 60.) **Weider, L.J.**, D. Frisch, and P.D.N. Hebert. 2010. Long-term changes in metapopulation genetic structure: A quarter-century retrospective study on low-arctic rock pool *Daphnia*. *Proc. Roy. Soc. Lond., Series B*. (in press).
- 59.) Jeyasingh, P.D., **L.J. Weider**, and R.W. Sterner. 2009. Genetically-based trade-offs in response to stoichiometric food quality influence competition in a keystone aquatic herbivore. *Ecology Letters* (in press).
- 58.) **Weider, L.J.**, P.D. Jeyasingh, and K.G. Looper. 2008. Stoichiometric differences in food quality: impacts on genetic diversity and coexistence of aquatic herbivores in a *Daphnia* hybrid complex. *Oecologia* 158:47-55.
- 57.) Jeyasingh, P.D. and **Weider, L.J.** 2007. Fundamental links between genes and elements: evolutionary relevance of ecological stoichiometry. *Molecular Ecology* (invited review) 16:4649-4661.
- 56.) Kyle, M., K. Acharya, **L.J. Weider**, K.G. Looper, and J.J. Elser. 2006. Coupling of growth rate and body stoichiometry in *Daphnia*: A role for maintenance processes? *Freshwater Biology* 51:2087-2095.
- 55.) Pijanowska, J., P. Dawidowicz, and **L.J. Weider**. 2006. Predator-induced escape response in *Daphnia*. *Archiv für Hydrobiol.* 167:77-87.
- 54.) Pijanowska, J., A. Howe, P. Dawidowicz, and **L.J. Weider**. 2006. Predator-induced shifts in *Daphnia* life-histories under different food regimes. *Archiv für Hydrobiol.* 167:37-54.
- 53.) **Weider, L.J.**, J.J. Elser, T.J. Crease, M. Mateos, J. Cotner, and T. Markow. 2005. The functional significance of ribosomal(r)DNA variation: Impacts on the evolutionary ecology of organisms. *Annual Review Ecology Evolution Systematics* 36:219-242.
- 52.) Jeyasingh, P.D. and **L.J. Weider**. 2005. Phosphorus availability mediates plasticity in life-history traits and predator-prey interactions in *Daphnia*. *Ecology Letters* 8:1021-1028.
- 51.) **Weider, L.J.**, W. Makino, K. Acharya, K.L. Glenn, M. Kyle, J. Urabe and J.J. Elser. 2005. Genotype x environment interactions, stoichiometric food quality effects, and clonal coexistence in *Daphnia pulex*. *Oecologia* 143:537-547.
- 50.) **Weider, L.J.**, K.L. Glenn, M. Kyle, and J.J. Elser. 2004. Associations among ribosomal (r)DNA intergenic spacer length variation, growth rate, and C:N:P stoichiometry in the genus *Daphnia*. *Limnology & Oceanography* 49:1417-1423.
- 49.) Kerfoot, W.C. and **L.J. Weider**. 2004. Experimental paleoecology ("Resurrection ecology"): chasing Van Valen's "Red Queen Hypothesis". *Limnology & Oceanography* 49:1300-1316.

- 48.) Kerfoot, W.C., X. Ma, C.S. Lorence, and **L.J. Weider**. 2004. Towards “resurrection ecology”: *Daphnia mendotae* and *D. retrocurva* in the coastal region of Lake Superior, among the first successful outside invaders? **J. Great Lakes Res.** 30 (Suppl.1):285-299.
- 47.) Spaak, P., A. Denk, M. Boersma, and **L.J. Weider**. 2004. Spatial and temporal patterns of sexual reproduction in a hybrid *Daphnia* species complex. **J. Plankton Res.** 26:625-635.
- 46.) **Weider, L.J.** and A. Hobæk. 2003. Glacial refugia, haplotype distributions, and clonal richness in the *Daphnia pulex* complex in arctic Canada. **Molecular Ecology** 12:463-473.
- 45.) Urabe, J., S. Ishida, M. Nishimoto, and **L.J. Weider**. 2003. *Daphnia pulicaria*, a zooplankton species that newly appeared in 1999 in the offshore zone of Lake Biwa. **Limnology** 4:35-41.
- 44.) Gorokhova, E., T.E. Dowling, **L.J. Weider**, T.J. Crease, and J.J. Elser. 2002. Functional and ecological significance of rDNA IGS variation in a clonal organism under divergent selection for production rate. **Proc. R. Soc. Lond. Series B.** 269:2373-2379.
- 43.) Limburg, P.A. and **L.J. Weider**. 2002. “Ancient” DNA in a microcrustacean resting egg bank can serve as a paleolimnological database. **Proc. R. Soc. Lond. Series B.** 269:281-287.
- 42.) Hairston, N.G. Jr., C.L. Holtmeier, W. Lampert, **L.J. Weider**, D.M. Post, J.M. Fisher, C.L. Cáceres, J.A. Fox, and U. Gaedke. 2001. Natural selection for grazer resistance to toxic cyanobacteria: Evolution of phenotypic plasticity? **Evolution** 55:2203-2214.
- 41.) Elser, J.J., R.W. Sterner, E. Gorokhova, W.Fagan, T. Markow, J. Cotner, J. Harrison, S. Hobbie, G. Odell, and **L.J. Weider**. 2000. Biological stoichiometry from genes to ecosystems. **Ecology Letters** 3:540-550.
- 40.) **Weider, L.J.** and A. Hobæk. 2000. Phylogeography and arctic biodiversity: a review. **Annales Zoologici Fennici** 37:217-231.
- 39.) Duffy, M.A., L.J. Perry, C.M. Kearns, **L. J. Weider**, and N.G. Hairston Jr. 2000. Paleogenetic evidence for a past invasion of Onondaga Lake, New York, by exotic *Daphnia curvirostris* using mtDNA from dormant eggs. **Limnology & Oceanography** 45:1409-1414.
- 38.) Hairston, N.G. Jr., W. Lampert, C. Cáceres, C.L. Holtmeier, **L. J. Weider**, U. Gaedke, J. M. Fisher, J. A. Fox, and D. M. Post. 1999. Rapid evolution revealed by dormant eggs. **Nature** 401:446.
- 37.) **Weider, L.J.**, A. Hobæk, J. K. Colbourne, T. J. Crease, F. Dufresne, and P. D. N. Hebert. 1999. Holarctic phylogeography of an asexual species complex: I. mtDNA variation in arctic *Daphnia*. **Evolution** 53:777-792.
- 36.) **Weider, L. J.**, A. Hobæk, P. D. N. Hebert, and T. J. Crease. 1999. Holarctic phylogeography of an asexual species complex: II. Allozymic variation in arctic *Daphnia*. **Molecular Ecology** 8:1-13.

- 35.) De Meester, L. and **L. J. Weider**. 1999. Depth-selection behavior, fish kairomones and the life-histories of *Daphnia hyalina x galeata* hybrid clones. ***Limnology & Oceanography*** 44:1248-1258.
- 34.) Hobæk, A. and **L.J. Weider**. 1999. A circumpolar study of Arctic biodiversity: Phylogeographic patterns in the *Daphnia pulex* complex. ***Ambio*** 28:245-250.
- 33.) Kerfoot, W. C., J. A. Robbins, and **L. J. Weider**. 1999. A new approach to historical reconstruction: Combining descriptive and experimental paleolimnology. ***Limnology & Oceanography*** 44:1232-1247.
- 32.) Mitchell, S. E., G. R. Carvalho, and **L. J. Weider**. 1998. Stability of clonal frequencies in an intermittent *Daphnia magna* population. ***Arch. Hydrobiol. Adv. Limnol.*** 52:185-194.
- 31.) Colbourne, J. K., T. J. Crease, **L. J. Weider**, P. D. N. Hebert, F. Dufresne, and A. Hobæk. 1998. Phylogenetics and evolution of a circumarctic species complex (Cladocera: *Daphnia pulex*). ***Biological Journal of the Linnean Society*** 65:347-366.
- 30.) **Weider, L. J.**, W. Lampert, M. Wessels, J. K. Colbourne and P. Limburg. 1997. Long-term genetic shifts in microcrustacean egg bank associated with anthropogenic changes in Lake Constance ecosystem. ***Proc. R. Soc. Lond. Series B.*** 264:1613-1618.
- 29.) **Weider, L. J.** and A. Hobæk. 1997. Postglacial dispersal, glacial refugia, and clonal structure of Russian/Siberian populations in the arctic *Daphnia pulex* complex. ***Heredity*** 78:363-372.
- 28.) **Weider, L. J.**, A. Hobæk, T. J. Crease, and H. Stibor. 1996. Molecular characterization of clonal population structure and biogeography of arctic apomictic *Daphnia* from Greenland and Iceland. ***Molecular Ecology*** 5:107-118.
- 27.) De Meester, L., **L. J. Weider**, and R. Tollrian. 1995. Alternative anti-predator defenses and genetic polymorphism in a pelagic predator-prey system. ***Nature*** 378:483-485.
- 26.) Mitchell, S. E., L. De Meester, **L. J. Weider**, and G. R. Carvalho. 1995. No evidence for kin-preferential swarming in a *Daphnia magna* population coexisting with fish. ***Journal of Animal Ecology*** 64:777-779.
- 25.) **Weider, L. J.** and A. Hobæk. 1994. Molecular biogeography of asexual lineages in a high-arctic apomictic *Daphnia* complex. ***Molecular Ecology*** 3:497-506.
- 24.) **Weider, L. J.** 1993. A test of the "general-purpose" genotype hypothesis: Differential tolerance to thermal and salinity stress among *Daphnia* clones. ***Evolution*** 47:965-969.
- 23.) **Weider, L. J.** 1993. Niche breadth and life-history variation in a hybrid *Daphnia* complex. ***Ecology*** 74:935-943.
- 22.) Pijanowska, J., **L. J. Weider**, W. Lampert. 1993. Predator-mediated genotypic shifts in a prey population: experimental evidence. ***Oecologia*** 90:40-42.
- 21.) Hobæk, A., **L. J. Weider**, H. G. Wolf. 1993. Ecological genetics of Norwegian *Daphnia* III. Clonal richness in an arctic apomictic complex. ***Heredity*** 71:323-330.

- 20.) **Weider, L. J.** and J. Pijanowska. 1993. Plasticity of *Daphnia* life histories in response to chemical cues of predators. **Oikos** 67:385-392.
- 19.) **Weider, L. J.** and H. B. Stich. 1992. Spatial and temporal heterogeneity of *Daphnia* in Lake Constance; intra- and interspecific comparisons. **Limnology Oceanography** 37:1327-1334.
- 18.) **Weider, L. J.** 1992. Disturbance, competition, and the maintenance of clonal diversity in *Daphnia pulex*. **Journal of evolutionary Biology** 5:505-521.
- 17.) **Weider, L. J.** 1992. Allozymic variation in tubificid oligochaetes from the Laurentian Great Lakes. **Hydrobiologia** 234:79-85.
- 16.) **Weider, L. J.** and H. G. Wolf. 1991. Life-history variation in a hybrid species complex of *Daphnia*. **Oecologia** 87:506-513.
- 15.) Wolf, H. G. and **L. J. Weider**. 1991. Do life-history parameters of *Daphnia* as determined in the laboratory correctly predict species successions in the field? **Verh. Internat. Verein. Limnol.** 24:2799-2801.
- 14.) **Weider, L. J.** 1991. Allozymic variation in *Bythotrephes cederstroemi*: a recent invader of the Great Lakes. **J. Great Lakes Res.** 17:141-143.
- 13.) **Weider, L. J.** 1989. Spatial heterogeneity and clonal structure in arctic populations of apomictic *Daphnia*. **Ecology** 70:1405-1413.
- 12.) Hebert, P. D. N., S. S. Schwartz, and **L. J. Weider**. 1989. Geographic patterns in genetic diversity and parthenogenesis within the *Daphnia pulex* group from the southern United States. **Amer. Midl. Nat.** 122:59-65.
- 11.) **Weider, L. J.** 1989. Population genetics of *Polyphemus pediculus* (Cladocera: Polyphemidae). **Heredity** 62:1-10.
- 10.) Hebert, P. D. N., R. D. Ward, and **L. J. Weider**. 1988. Clonal diversity and breeding system variation in *Daphnia pulex*, an asexual-sexual complex. **Evolution** 42:147-159.
- 9.) **Weider, L. J.** and P. D. N. Hebert. 1987. Ecological and physiological differentiation among low-arctic clones of *Daphnia pulex*. **Ecology** 68:188-198.
- 8.) **Weider, L. J.** and P. D. N. Hebert. 1987. Microgeographic genetic heterogeneity of melanistic *Daphnia pulex* at a low-arctic site. **Heredity** 58:391-399.
- 7.) **Weider, L. J.** 1987. Life history variation among low-arctic clones of obligately parthenogenetic *Daphnia pulex*: a diploid-polyploid complex. **Oecologia** 73:251-256.
- 6.) **Weider, L. J.**, M. J. Beaton, and P. D. N. Hebert. 1987. Clonal diversity in high-arctic populations of *Daphnia pulex*, a polyploid apomictic complex. **Evolution** 41:1335-1346.
- 5.) Lynch, M., **L. J. Weider**, and W. Lampert. 1986. Measuring the carbon balance in *Daphnia*. **Limnology & Oceanography** 31:17-33.

- 4.) **Weider, L. J.** 1985. Spatial and temporal genetic heterogeneity in a natural *Daphnia* population. *J. Plankton Res.* 7:101-123.
- 3.) **Weider, L. J.** and W. Lampert. 1985. Differential response of *Daphnia* genotypes to oxygen stress: respiration rates, hemoglobin content, and low oxygen tolerance. *Oecologia* 65:487-491.
- 2.) **Weider, L. J.** 1984. Spatial heterogeneity of *Daphnia* genotypes: vertical migration and habitat partitioning. *Limnology & Oceanography* 29:225-235.
- 1.) Lynch, M., B. Monson, M. Sandheinrich, and **L. Weider**. 1981. Patterns of size-specific mortality in zooplankton populations. *Verh. Internat. Verein. Limnol.* 21:363-368.

Published Abstracts:

Murdoch, M. H., R. G. Danzmann, **L. J. Weider**, and P. D. N. Hebert. 1990. Phylogenetic analysis of Great Lakes Ictalurids based on mitochondrial DNA and allozyme differentiation. Fourth International Congress of Systematic and Evolutionary Biology (ICSEB IV), U. of Maryland, College Park. p.167.

Kikuchi, S. and **L. J. Weider**. 1986. Structural basis of different adaptabilities to the hypertonic environment in a freshwater flea - a morphometrical comparison of the fine structure of the gill epithelia among six clones. *Zool. Sci.* 3(6):1094.

Technical Reports

Weider, L.J. and R.E. Broughton. 2001. Stock identification of striped bass in Lake Texoma using molecular markers. Report to the Oklahoma Department of Wildlife Conservation, 24 p.

Weider, L. J., R. G. Danzmann, M. H. Murdoch, and P. D. N. Hebert. 1989. Impact of trace organics on mutation rates in aquatic organisms: mitochondrial DNA variability in brown bullheads (*Ictalurus nebulosus*) resident in the Huron-Erie corridor. Report to the Ontario Ministry of the Environment, 28 p.

Books/Conference Proceedings:

Larsson, P. and **L. J. Weider** (eds). 1995. Cladocera as Model Organisms in Biology. Proc. 3rd Internat. Cladoceran Symp. **Developments in Hydrobiology**, vol. 107, Kluwer, Dordrecht, The Netherlands, 307 pp.

Presentations: (@ invited talk):

2009 "Population genetics and resurrection ecology: A synthesis"[@] (*keynote address*), **Resurrection Ecology Symposium**, 13-18 September, Herzberg, Switzerland.

2009 “Spatial and temporal genetic heterogeneity of the exotic, invasive cladoceran, *Daphnia lumholtzi* in Lake Texoma, U.S.A.”, **World Conference on Biological Invasions and Ecosystem Functioning (BIOLIEF)**, 27-20 October, Porto, Portugal (D. Frisch and L.J. Weider).

2009 “Long-term changes in metapopulation genetic structure: A quarter-century retrospective study on low-arctic rock pool *Daphnia*”, **Society for the Study of Evolution (SSE)**, 12-17 June, U. of Idaho, Moscow, Idaho, U.S.A. (L.J. Weider, D. Frisch, and P.D.N. Hebert).

2008 “The exotic invasive cladoceran *Daphnia lumholtzi* – an example of the application of population genetic tools”[@], **10th International Conference on Copepoda**, 13-19 July, Pattaya, Thailand (D. Frisch and L.J. Weider).

2008 “Seasonal changes in the population genetic structure of the exotic invasive cladoceran *Daphnia lumholtzi*”, **American Society of Limnology and Oceanography (ASLO)**, 8-13 June, Memorial University, St. John’s, NFLD, Canada (D. Frisch and L.J. Weider).

2007 “The ecological genetics of the exotic invasive cladoceran *Daphnia lumholtzi*”[@], **Fifth International Symposium on Ecological Genetics**, Belgian Fund for Scientific Research (FWO-Vlaanderen), 5-7 February, Katholieke Universiteit Leuven, *Belgium* (L.J. Weider and L.B. Harold).

2007 “Identifying genes involved in the processing of biogenic elements in *Daphnia*”, ***Daphnia* Genomics Consortium Meeting**, 7-9 July 2007, Indiana University, Bloomington (P.D. Jeyasingh and L.J. Weider, poster).

2007 “The ecological genetics of the exotic invasive cladoceran, *Daphnia lumholtzi*”, **30th Congress of the International Society of Limnology (SIL)**, 12-18 August 2007, Montreal, Québec, Canada, (L.J. Weider, D. Frisch, and L.B. Harold).

2006 “Integration of ecology, physiology, and evolution in planktonic systems: A tribute to Winfried Lampert’s contributions”[@] (*keynote address*), **Perspectives in Aquatic Ecology: A Symposium dedicated to Prof. Winfried Lampert**, 30 September, Plön, Germany.

2006 “Bio(genetic) diversity impacted by food quality and quantity: Competition and coexistence in a *Daphnia* clonal assemblage” **American Society for Limnology & Oceanography**, 4-9 June, Victoria, British Columbia (L.J. Weider, P.D. Jeyasingh, & K.G. Loooper).

2006 “Genetic diversity effects on ecosystem function: Grazing rates in clonal versus non-clonal *Daphnia* clonal assemblages” **American Society for Limnology & Oceanography**, 4-9 June, Victoria, British Columbia (C.W. Hargrave, K.D. Hambright, & L.J. Weider).

2005 “Inter- and intra-specific coupling of growth rate and body stoichiometry in *Daphnia*: A role for maintenance processes?” **American Society for Limnology & Oceanography**, 19-24 June, Santiago de Compostela, *Spain* (M. Kyle, K. Acharya, L.J. Weider, K. Loooper & J.J. Elser, poster presentation).

2004 “Genotype x environment interactions, food quality effects and clonal coexistence in *Daphnia*”, **Society for the Study of Evolution**, 26-30 June, Colorado State University. (L.J. Weider, W. Makino, K. Acharya, K.L. Glenn, M. Kyle, J. Urabe & J.J. Elser).

2003 “rDNA intergenic spacer length variation and its significance for growth rates of organisms”[@], **NSF Integrated Research Challenges in Environmental Biology (IRCEB): Biological Stoichiometry from Genes to Ecosystems**, Society for Integrative and Comparative Biology (SICB) Annual Meeting, 4-8 January, Toronto, Ontario, *Canada*.

2003 “Clonal architecture and diversity of a *Daphnia* hybrid complex in a lake undergoing environmental change”, **Third International Symposium on “Ecological Genetics”**, Belgian Fund for Scientific Research (FWO-Vlaanderen), 5-7 February, Katholieke Universiteit Leuven, *Belgium* (D. Straile, T. Jankowski, and L.J. Weider).

2002 “The Role of History and Deterministic Forces in Shaping Bio(genetic) Diversity Among the Freshwater Zooplankton”[@] (*keynote address*), **NSF-Biodiversity Symposium: Scaling Up & Down in Aquatic Systems**, Univ. of Michigan, 29 Sept. – 2 Oct.

2002 “Propagule banks as Repositories of Genetic & Ecological Information”[@], **NSF-Biodiversity Symposium: Scaling Up & Down in Aquatic Systems**, Univ. of Michigan, 29 Sept. – 2 Oct.

2002 “Elemental composition, growth rates, and rDNA structure in the genus, *Daphnia*”[@]. **Ecological Society of America**, Univ. of Arizona, Tucson, 4-9 August, (L.J. Weider, K.L. Glenn, M. Kyle, and J.J. Elser).

2001 “rDNA spacer length, growth rates, and biological stoichiometry in the genus *Daphnia*. **Society for the Study of Evolution**, Univ. Tennessee, 26-30 June, (L.J. Weider, T.J. Crease, and J.J. Elser).

2001 “Clonal diversity in *Daphnia tenebrosa* as assessed by microsatellites”, **Society for the Study of Evolution**, Univ. Tennessee, 26-30 June (F. Dufresne, L.J. Weider, and J.K. Colbourne, poster).

2001 “Phylogeography in the Arctic Realm: A Circumpolar Study of the *Daphnia pulex* complex”[@], **International Symposium on Ecological Genetics**, Belgian National Science Foundation, University of Antwerp, 31 January – 2 February, Antwerp, *Belgium*.

1999 “Phylogeography and Arctic Biodiversity: A Circumpolar Study of the *Daphnia pulex* Complex”[@], **Northern Dimensions to Biodiversity: From Arctic to Boreal Ecosystems**, Finnish Academy of Sciences – FIBRE – Finnish Biodiversity Research Programme, 20-23 November, Ivalo, *Finland*.

1998 “Genetic variation in ancient cladoceran resting eggs associated with environmental shifts during the past millenium”, **Society for the Study of Evolution**, 20-24 June, U. of British Columbia, *Canada* (P. Limburg, J.K. Colbourne, L.J. Weider, and J. Wiethold).

1998 “Genetic shifts in *Daphnia* diapausing egg banks: Reflection of the eutrophication history of Lake Constance?”; **International Society for Limnology (S.I.L.)**, 9-14 August, Dublin, *Ireland* (W. Lampert & L.J. Weider)

1998 “The role of diapausing propagules in influencing spatial and temporal genetic structure”[@]. **Ecological Genetics: Isolation by Distance**, Catholic University of Leuven, 2-3 February, Leuven, *Belgium*.

1998 "Arctic Orphans in Middle Europe: Glacial Relicts Revealed by Allozyme and RFLP Analyses of *Daphnia* from Alpine Lakes"®, **Advances in Molecular Ecology**, NATO Advanced Study Institute, 20-31 March, Erice, Sicily, *Italy* (M. Cerny & L.J. Weider; poster).

1997 "Genetische Diversität von *Daphnia* Dauereiern im Sediment des Belauer Sees", **Deutsche Gesellschaft für Limnologie**, 15-19 September, University of Frankfurt, *Germany* (P. Limburg, J.K. Colbourne, & L.J. Weider).

1997 "Genetic diversity in ancient *Daphnia* resting eggs". **Diapause in the Crustacea**: 2nd International Symposium, 24-29 August 1997, Ghent, *Belgium*. (P. Limburg, J.K. Colbourne, L.J. Weider, W. Lampert, & M. Wessels).

1997 "Long-term genetic shifts in microcrustacean egg bank associated with anthropogenic changes in Lake Constance ecosystem."® **Diapause in the Crustacea**: 2nd International Symposium, 24-29 August 1997, Ghent, *Belgium*. (L.J. Weider, P. Limburg, J.K. Colbourne, W. Lampert, & M. Wessels).

1997 "The influence of ephippial hatchlings on the clonal composition of a *Daphnia magna* population". **Diapause in the Crustacea**: 2nd International Symposium, 24-29 August 1997, Ghent, *Belgium*. (S.E. Mitchell, L.J. Weider, & G.R. Carvalho).

1997 "Genetic analysis of ephippial egg banks of *Daphnia magna* using microsatellite VNTRs". **Diapause in the Crustacea**: 2nd International Symposium, 24-29 August 1997, Ghent, *Belgium*. (C. Clabby, J.K. Colbourne, L.J. Weider, P.D.N. Hebert, & G.R. Carvalho).

1996 "Apomixis, polyploidy, and the success of parthenogens in marginal habitats: A case study of arctic *Daphnia*"®. **Geographic Parthenogenesis: A Model System in Evolutionary Ecology**, Fifth International Congress of Systematic and Evolutionary Biology (ICSEB V), 17-23 August, Budapest, *Hungary*.

1996 "Post-glacial phylogeography of the circumarctic *Daphnia pulex* complex". **Fiftieth Anniversary of the Founding of the Society for the Study of Evolution**, 19-23 June, Washington University, St. Louis, Missouri. (J. K. Colbourne, L. J. Weider, T. J. Crease, A. Hobæk, and P. D. N. Hebert).

1995 "Biogeography and ecological genetics in an arctic apomictic *Daphnia* complex"®. **Evolutionary Genetics and Adaptation**, Jacques Monod Conference (CNRS), 25-29 September, Aussois, *France*.

1995 "Phylogeography and ecological genetics of a circumarctic apomict, *Daphnia pulex*". **Society for the Study of Evolution**, 8-12 July, Montreal, *Canada*.

1994 "Environmental heterogeneity and the maintenance of clonal diversity"®. Deutsche Forschungsgemeinschaft (DFG) sponsored Symposium, **Interface between Ecology and Evolutionary Genetics**, 30 October - 4 November, Schloß Ringberg, *Germany*.

Additional Presentations:

1993 Third International Symposium on Cladocera, Bergen, *Norway*
1993 European Science Foundation, Evolutionary Ecology of Clonal Organisms, Plön, *Germany*
1992 European Science Foundation, Population Biology Program, Basel, *Switzerland*[®]
1992 European Science Foundation, Gregynog, *Wales*[®]
1992 Genetics & Evolution of Aquatic Organisms, U. of Bangor, *Wales*
1991 European Society for Evolutionary Biology, Debrecen, *Hungary* (poster)
1991 Population Genetics Group Meeting, U. of Manchester, *U.K.* (poster)
1989 Society for Study of Evolution, Penn State U.
1987 European Society for Evolutionary Biology, U. of Basel, *Switzerland* (poster)
1986 Ontario Ecology & Ethology Colloquium, York Univ., *Canada*
1985 Ecological Society of America (ESA), U. of Minnesota
1983 ESA, U. of North Dakota
1982 American Society of Limnology & Oceanography (ASLO), North Carolina State U.
1981 ASLO, U. of Wisconsin-Milwaukee

Invited Lectures:

2009 Department of Biological Sciences, Univ. of South Carolina
2006 Department of Aquatic Ecology, Swiss Fed. Inst. Environ. Sci., Zürich, *Switzerland*
2005 Ecology and Evolutionary Biology Program, Michigan State University
2005 Department of Aquatic Ecology, Catholic Univ., Leuven, *Belgium*
2004 Department of Zoology, Univ. of Oklahoma
2001 Department of Ecology, Univ. of Antwerp, *Belgium*
2000 Department of Animal Biology, U. of Illinois at Urbana-Champaign
2000 Department of Zoology, U. of Wisconsin-Madison
1999 Finnish Academy of Sciences, Ivalo, *Finland*
1999 Department of Zoology, Oklahoma State University
1999 Department of Biological Sciences, U. of Texas at Arlington
1999 Department of Biological Sciences, Southwest Missouri State U.
1998 Botanical Institute, University of Gothenburg, *Sweden*
1998 Department of Zoology, University of Oklahoma
1998 Zoological Institute, University of Basel, *Switzerland*
1998 Zoological Institute, Charles U., Prague, *Czech. Rep.*
1998 Institute for Polar Ecology, U. of Kiel, *Germany*
1998 Laboratory of Ecology and Aquaculture, Catholic Univ. of Leuven, *Belgium*
1997 Division of Ecology & Systematics, Cornell University
1997 Department of Biological Sciences, University of Hull, *U.K.*
1997 Limnological Institute, University of Constance, *Germany*
1997 Division of Biology, University of Utrecht, *The Netherlands*
1997 Department of Biological Sciences, Kent State University
1996 Institute for Marine Research, U. of Kiel, *Germany*
1995 Dept. of Biology, U. of Miami, Coral Gables, Florida
1995 Dept. of Limnology, Swiss Fed. Inst. Env. Sci., Zürich, *Switzerland*
1995 Dept. of Hydrobiology, Charles U., Prague, *Czech. Rep.*
1995 Department of Zoology, Oregon State University
1994 Dept. of Zoology, U. of Guelph, *Canada*
1994 Netherlands Institute of Ecology, Nieuwersluis, *The Netherlands*
1994 Department of Biological Sciences, SUNY-Buffalo
1993 Department of Animal Ecology, U. of Ghent, *Belgium*

1993 Zoological Institute, U. of Munich, *Germany*
1992 Department of Ecology, U. of Turku, *Finland*
1992 European Science Foundation, Basel, *Switzerland*
1992 Division of Biological Sciences, U. of Constance, *Germany*
1991 Zoological Institute, U. of Bergen, *Norway*
1990 Zoological Institute, U. of Helsinki, *Finland*
1990 Dept of Zoology, Miami University (Ohio)
1990 Dept. of Biological Sciences, U. of Cincinnati
1987 Division of Biological Sciences, U. of Michigan
1987 Dept. of Population Biology, U. of Copenhagen, *Denmark*
1984 Dept. of Biological Sciences, U. of Windsor, *Canada*
1983 Max-Planck-Institute für Limnologie, *Germany*

Invited Symposia/Workshops:

2009 **Resurrection Ecology Symposium** – 13-18 September, Herzberg, Switzerland.

2007 **Centre for Ecological & Evolutionary Synthesis (CEES) – Centre of Excellence (CoE)**
– “kick-off” meeting, Norwegian National Science Foundation and Royal Society, 2-3 December,
University of Oslo, *Norway*.

2007 **Fifth International Symposium on Ecological Genetics**, Belgian Fund for Scientific
Research (FWO-Vlaanderen), 5-7 February, Katholieke Universiteit Leuven, *Belgium*.

2006 **Perspectives in Aquatic Ecology: A Symposium dedicated to Prof. Winfried
Lampert**, 30 September, Max-Planck-Institut für Limnologie, Plön, *Germany*

2005 **Fourth International Symposium on “Ecological Genetics”**, Belgian Fund for Scientific
Research (FWO-Vlaanderen), 2-4 February, University of Antwerp, *Belgium* (declined invitation
to attend due to scheduling conflict.)

2003 **Third International Symposium on “Ecological Genetics”**, Belgian Fund for Scientific
Research (FWO-Vlaanderen), 5-7 February, Katholieke Universiteit Leuven, *Belgium* (declined
invitation to attend due to scheduling conflict, co-authors presented in my place).

2003 **NSF Integrated Research Challenges in Environmental Biology (IRCEB): Biological
Stoichiometry from Genes to Ecosystems**, Society for Integrative and Comparative Biology
(SICB) Annual Meeting, 4-8 January, Toronto, Ontario, *Canada*.

2002 **Biodiversity Symposium: Scaling Up and Down in Aquatic Systems**,
NSF-sponsored Workshop, 29 Sept - 2 October, U. of Michigan, Ann Arbor, U.S.A.

2002 **The Ecology and Evolution of Coupled Energy and Material Flows: Integration of
Multiple Scales and Multiple Biota**, Ecological Society of America (ESA)-sponsored
symposium, 4-9 August, Univ. of Arizona, Tucson, USA.

2001 **Second International Symposium on “Ecological Genetics”**, Belgian Fund for
Scientific Research (FWO-Vlaanderen), 31 January – 2 February, Antwerp, *Belgium*.

Northern Dimensions to Biodiversity: From Arctic to Boreal Ecosystems, 20-23 November, Ivalo, *Finland*.

1998 **First International Symposium on “Ecological Genetics – Isolation-by-Distance”**, Belgian Fund for Scientific Research (FWO-Vlaanderen), 2-4 February, Leuven, *Belgium*.

1997 **Diapause in the Crustacea: Second International Symposium**, 24-29 August, Ghent, *Belgium*. (Selected member of the International Scientific Advisory Committee).

1996 **Geographic Parthenogenesis: A Model System in Evolutionary Ecology**, Fifth International Congress of Systematic and Evolutionary Biology, 17-24 August, Budapest, *Hungary*.

1995 **Evolutionary Genetics and Adaptation**, Jacques Monod Conference (CNRS), 25-29 September, Aussois, *France*.

1994 **Interface between Ecology and Evolutionary Genetics**, Deutsche Forschungsgemeinschaft (DFG) sponsored Symposium, 30 October - 4 November, Schloß Ringberg, *Germany*.

1992 **Establishing a Program in Population Biology**, European Science Foundation (ESF) Workshop, November, Basel, *Switzerland*.

1992 **Ecology & Evolution of Metapopulations**, ESF-funded Workshop, Grygennog, *Wales*.

1989 **Future Directions in Zooplankton Population Biology**, NSF-funded workshop, October, W.K. Kellogg Biological Station, Michigan State Univ.

Professional Societies

Ecological Society of America
European Society for Evolutionary Biology
Organization of Biological Field Stations (OBFS)
Society for the Study of Evolution

Additional Duties:

Serve as an *ad hoc* reviewer for: American Naturalist; Animal Behaviour; Archiv für Hydrobiologie; BioScience; Ecology; Evolution; Functional Ecology; Global Change Biology; Hereditas; Hydrobiologia; J. evolutionary Biology; Limnology & Oceanography; Molecular Biology & Evolution; Molecular Ecology; Oecologia; Oikos; Philosophical Transactions Royal Society London; Polar Research; PNAS; Proc. R. Soc. Lond.

Serve as *ad hoc* reviewer for NSF (U.S.), NSERC (Canada), NERC (U.K.), Marsden Fund (Royal Society of New Zealand), Canadian Foundation for Innovation (CFI), Austrian Academy of Sciences, Belgian National Science Foundation (FWO), and Czech National Academy of Sciences Grant Proposals.

Elected as Member-at-Large, Executive Committee, Organization of Biological Field Stations (OBFS), 2004-2006

Elected as Vice-President, OBFS, 2006-2009; served as member of OBFS contingent for Congressional Visits Day (CVD) organized by the American Institute of Biological Sciences (AIBS), 18-19 April 2007, Washington, D.C.

European Society for Evolutionary Biology (ESEB) Council Member: 2005-2009

Served as Associate Editor, *Genetica*, 2006-2008.

Served as OU representative to National Ecological Observatory Network (NEON) 2008-2009.

Serving on Domain Science & Education Coordinating Committee (DSECC) – NEON Domain #11 (Texas-Oklahoma) 2009-present.

Serving as *tri-chair* of OU local organizing committee to host the 2011 Evolution Meetings in Norman, OK.

Commissioned by the Regents, University of Texas-Arlington to serve on External Review Panel for the Department of Biology Program, 22-23 February 2007.

Commissioned by the Regents, University of Memphis to serve on External Review Panel for the Department of Biology Program, 6-7 April 2006

Represented the Organization of Biological Field Stations (OBFS) as a member of the NSF-sponsored Long-Term Ecological Research (LTER) Governance Working Group (GWG) 2005-2006.

Hosted 2nd regional National Ecological Observatory Network – Texas-Oklahoma Regional Ecological Observatory (NEON-TOREO) meeting at OU Biological Station, 23-25 February 2006

Served as expert consultant for strategic planning workshop, Bull Shoals Biological Station, Missouri State University 21-22 September 2006, Springfield, MO.

Invited as expert consultant to attend NSF-sponsored Strategic Planning Workshop for OBFS, 23-25 January 2004, Sevilleta Field Station, NM.

Served on National Science Foundation (NSF – U.S.) Doctoral Dissertation Improvement Grant (DDIG) Population Biology/Evolutionary Clusters Panel – Feb. 2004, Feb. 2005. Served on NSF PhyloBioGeography Panel – Oct. 2007.

Served as member of External Review Panel commissioned by the Iowa Board of Regents to review and evaluate the Iowa Lakeside Laboratory Field Station, February 2001.

Served as host/organizer for the national meeting of the Organization of Biological Field Stations (OBFS) held at the University of Oklahoma Biological Station (UOBS), September, 2001.

Hosted a “Golden Alga (*Prymnesium parvum*) Task Force Meeting between Oklahoma Department of Wildlife Conservation (ODWC) and Texas Parks and Wildlife (TPW) officials, held at The University of Oklahoma Biological Station, 18 March 2004.

Internal (university) Service:

Member of the OU College of Arts & Sciences Environmental Biology Task Force: 1999-2000.

Member of The University of Oklahoma (OU) Steering Committee for the Development of an Interdisciplinary Center for Global Environmental Studies: 1999-2001.

OU Freshmen Mentoring Program: 1999-2000.

OU Faculty Senate – Invited Speaker Program: 1999-present.

Member of the OU College of Arts & Sciences (CAS) Tenure and Promotion Advisory Committee: 2000-2001; 2001-2002.

Search Committee Member: Aquatic Ecologist position (Biological Station/Zoology) – 1999-2000; Invertebrate Biologist position (Biological Survey/Zoology) – 1999-2000; Chair Search, Department of Zoology – 2000-2002; Molecular Ecologist position (Dept. of Botany/Microbiology) – 2001-2002.

Appointed August 2006 by the President of the University of Oklahoma to serve on the search committee for the endowed Case-Hooper Professorship (Zoology) – 2006-2007.

Appointed March 2002 by the OU Board of Regents to serve on the search committee for the new Director, Sam Noble Oklahoma Museum of Natural History.

Elected as member of Dept. of Zoology Executive Committee (Committee A): 2002-2004.

Member of Dept. of Zoology Graduate Selections Committee: 1999-2002; 2004-present.

Served as member of *ad hoc* Committee to establish an inter-departmental Ph.D. Program in Ecology and Evolutionary Biology: 2001-present. Organized “Eco-Munch” Spring 2004; Fall 2004.

Elected as member of the Steering Committee for Ecology & Evolutionary Biology (EEB) Ph.D. Program: 2004-2006.

Member of *ad hoc* Departmental Committee on Molecular Core Facilities – 2003-present.

Served on Department of Zoology Strategic Planning Committee – 2005-2006.

Oklahoma Center for Genomics Resources Steering Committee – 2006-present.

Faculty Mentor for the OU Ultimate (Frisbee) Club – 1999-2003.

Ex officio member of the Executive Committee – Friends of the University of Oklahoma Biological Station (FUOBS): 2001-present

Ex officio member of the Kessler Farm Field Laboratory (KFFL) Executive Committee: 2005-present

Public (non-academic) Lectures/Service:

FUOBS Fall Reception, Sam Noble Oklahoma Museum of Natural History (October, 2008)

Paul's Valley (OK) Rotary Club (July 2007)

Bridge Creek (OK) Middle School Gifted & Talented Program (November 2006)

FUOBS Spring Reception, Sam Noble Oklahoma Museum of Natural History (April 2006)

Volunteer chaperone for Alcott Middle School's Lake Thunderbird "Lake Studies" (September 2005)

Noble (OK) High School Gifted & Talented Program (February 2005)

Rivermont Retirement Community – Norman, OK (October 2004)

Volunteer chaperone for Alcott Middle School's "Sutton Urban Wilderness Expedition" (March 2000, 2004).

Presented FUOBS award at the Oklahoma Junior Academy of Sciences (OJAS) Banquet (April 2003, East Central University, Ada, OK)

FUOBS – Biennial Reunion ("State-of-the-Station", July 2003, July 2005)

Marshall County Retired Educators – (June 2003)

OU Alumni & Friends of Love County, OK – (April 2003)

Madill Lions' Club – (February 2003)

Madill Daughters – (January 2003)

Sea Scouts (Norman ship#5790) – (September 2002)

Upward Bound (disadvantaged high school students) – S.E. Oklahoma State Univ. (July 2001)

OU Pre-Collegiate Summer Academy (June 2001, June 2002, June 2003)

OU Interdisciplinary Perspectives on the Environment (IPE) – invited speaker (November 2000)

Lindsay (OK) Rotary Club (October 2000)

Oklahoma City/Central Oklahoma Mensa Chapter (June 2000)

Kingston (OK) Middle School Science Fair Judge (February 2000)

Blanchard (OK) High School Gifted & Talented Program (February 2000)