Donald M. Waller

Curriculum Vitae – November 2012

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Professional Positions:

July, 2012 – present	Chair, Department of Botany - http://botany.wisc.edu/ Chair, Wisconsin Ecology - http://www.ecology.wisc.edu/
2012 – present	John T. Curtis Professor Dept. of Botany
2007 – present	Chair, Biological Aspects of Conservation Major (also 1986-1991)
1989 – present	Professor of Botany and Environmental Studies University of Wisconsin - Madison
1984-1989	Associate Professor of Botany, University of Wisconsin - Madison
1978-1984	Assistant Professor of Botany, University of Wisconsin - Madison

Education:

1978	Bussey Post-doctoral Fellow, The Gray Herbarium, Harvard University
Ph.D., 1978	Biology / Population Biology, Princeton University
A.B., 1973	Biology / Independent Scholar, Amherst College

Other Positions, Awards, and Services:

2012-2017	John T. Curtis Professor (Named professorship awarded by the Wisconsin Alumni Research Foundation)
2010-present	**Chair**, **Science Advisory Board**, Environmental Law and Policy Center, (Chicago, IL: http://www.elpc.org)
2009-10, & 2010-11	**Honored Instructor Award**, Division of University Housing, UW-Madison.
2008	**Palme Academique** Award, Rank: Chevalier (Knight), French Ministry of Education
2006-07	**President**, international **Society for the Study of Evolution**
2005	**Elected Fellow**, **AAAS** (American Assoc. for the Advancement of Science)
2005-06	Board of Directors, **Midwest Invasive Plant Network**
2003-06	Associate Editor, **ECOLOGY LETTERS** (one of 3 senior editors)
1999-2003	Editor-in-chief, **EVOLUTION** Leading international journal in evolutionary biology. Coordinated ~36 Associate and subject editors, 3 staff, relationships and with Allen Press to produce 12 issues per year. Oversaw expansion from 6 to 12 issues per year and the move to electronic printing and distribution via BioOne, JSTOR, and Allen Press while improving time to publication and showing a 35% increase in manuscript submissions.
1996-97	**Vilas Associate** Award - Univ. of Wisconsin - Madison
1994-96	Associate Editor, **EVOLUTION**
1991-94	Executive Vice-President, **Society for the Study of Evolution** Chief executive and financial officer for a Society with ~2900 members, 1400 institutional subscribers, and an annual budget of over $500,000
1992-93	Co-Chair, "**Scientific Roundtable on Biological Diversity**"

	Committee of scientific experts assembled by the **US Forest Service** to provide recommendations on biodiversity and forest management issues to the Chequamegon and Nicolet National Forests
1992	Special Merit Recognition Award (for the Scientific Roundtable), Eastern Region, U.S. Forest Service.
1990-92	Editorial Board, **OECOLOGIA**
1989-91	Board of Directors, **Natural Areas Association**
1988	**Alexander von Humboldt Fellow** and Visiting Scientist, Institut fur Ökologie, Technische Universitat, Berlin (West)
1987 & 1988	Outstanding Environmentalist Awards - Wisconsin Sierra Club and Madison Audubon Society
1986	**Visiting Fellow**, Smithsonian Tropical Research Institute, Panama
1978-89	Assistant and Associate Professor of Botany
1977-1978.	**Bussey Fellow** (post-doc), Gray Herbarium, Harvard University.
1973-1977	NIH Graduate Traineeship in Genetics, Princeton University

Various Review Panels, **National Science Foundation**

Testimony before House and Senate Sub-committees (U.S. Congress) regarding Forest Service Reform, Ecosystem Management, and biological diversity issues. (1991, 1993, 1994, 1998)

Fields of Interest:

Conservation Biology:	The demography and genetics of rare plants; conservation genetics; Plant-animal interactions; monitoring; forest management policy.
Ecology:	Forest ecology; patterns of species loss; plant demography; effects of habitat fragmentation, exotic invasions, and deer browsing on plant communities.
Genetics & Evolution:	Dynamics of the genetic load; causes and consequences of inbreeding; the evolution of breeding systems; life history theory; population genetic structure

Synergistic Activities:

1. **Teaching:** I teach a non-majors ecology course (Bot/Zoo 260, 'ecology for voters' 160 students), parts of an introductory biology course (Biology 151 – evolution & diversity), and initiated new courses in Conservation Biology (Bot/Zool/ES 651), Tropical field biology (Bot/Zoo 639-640), and a web-based course ("Ecological issues: a case study approach" - Bot/Zool 450) aimed at science teachers and naturalists.

2. **Advising:** I chair UW's undergraduate major in the Biological Aspects of Conservation (about 150 students), which I redesigned in 1990. I also helped to design new majors in Environmental Studies and Env. Sciences. I advise 25+ undergraduates in BAC and Botany, 2-4 seniors doing thesis research, and 5 graduate students, all groups with a large fraction of women and several minority students.

3. **Data archiving:** As Editor of Evolution and President of the Soc. for the Study of Evolution, I worked with the NSF, NESCent, and other agencies to promote permanent public data archives (including the 'Dryad' initiative). I also developed the PEL website (http://www.botany.wisc.edu/PEL/) and its data sharing policy to promote fair use of historical

Wisconsin plant community data. I also work with VegBank and TraitNet to share resources and data in ecology.

4. **Forest and Wildlife Management:** I have worked for 25 years on policy issues related to biodiversity, wildlife, and forest management resulting in several popular articles, a book (Wild Forests, 1994 Island Press), and testimony before the U.S. House and Senate, the Wisconsin Assembly, and Wisconsin and Michigan DNR Boards and committees. I co-chaired the US Forest Service "Scientific Roundtable on Biological Diversity" in 1991. My students and I also worked with the Great Lakes Indian Fisheries and Wildlife Commission to monitor demography and genetic diversity in Wild Rice on Ojibway reservations in northern Wisconsin. We also work with the Natl. Park Service and Wisconsin DNR Forestry, Science Services, and Wildlife Divisions to design protocols for monitoring long-term changes in vegetation and ungulate (deer) browsing impacts.

5. **Climate change & forest response networks**. I collaborate with several networks on climate change issues, e.g., as a member of the native plants & communities working group, Wisconsin Initiative for Climate Change (http://www.wicci.wisc.edu/); as a member of the USFS Climate Change Science Round Table developing adaptation and mitigation strategies with a focus on the Chequamegon-Nicolet National Forest (a model forest in the Eastern Region - see http://www.nrs.fs.fed.us/niacs/tools/ccrf/), I am also working with a group of scientists to develop a Working Group in NIMBios (see Grants below) to assess forest growth and carbon dynamics in forests exposed to increases in atmospheric CO_2 and N deposition together with climate shifts.

PUBLICATIONS - Books:

1. **Waller**, D.M., and T.P. Rooney, eds. 2008. **The Vanishing Present: Wisconsin's changing lands, waters, and wildlife**. Univ. of Chicago Press. 507 pp.
2. W.S. Alverson, W. Kuhlmann, and D.M. **Waller**. 1994. **Wild Forests: Conservation Biology and Public Policy**. Island Press, Washington, DC. 300 pp.

Book Chapters:

1. **Waller**, D.M., and S. Flader. 2010. Leopold's legacy: An ecology of place. Chap. 3, pp. 40-62, in I. Billick and M. Price, eds., **The Ecology of Place: Contributions of Place-Based Research to Ecological Understanding**, Univ. of Chicago Press.
2. **Waller**, D.M., and T.P. Rooney. 2008. Assembling the puzzle. In D.M. Waller & T.P. Rooney, eds., **The vanishing present: Wisconsin's changing lands, waters, and wildlife**. Univ. of Chicago Press, Chicago.
3. **Waller**, D.M. 2008. The Big Picture. In D.M. Waller & T.P. Rooney, eds., **The vanishing present: Wisconsin's changing lands, waters, and wildlife**. Univ. of Chicago Press, Chicago.
4. T.P. Rooney and D.M. **Waller**. 2008. Plant Diversity in the once and future Northwoods. In D.M. Waller & T.P. Rooney, eds., **The vanishing present: Wisconsin's changing lands, waters, and wildlife**. Univ. of Chicago Press, Chicago.
5. **Waller**, D.M. 2007. White-tailed deer impacts and the challenge of managing a hyperabundant herbivore. In Gaston, A.J.; Golumbia, T.E.; Martin, J.-L.; Sharpe, S.T. (eds.), Lessons from the Islands: introduced species and what they tell us about how ecosystems work. Pp. 135-147, Proceedings from the Research Group on Introduced Species 2002 Symposium, Queen Charlotte City, Queen Charlotte Islands, BC. Special Publication, Canadian Wildlife Service, Environment Canada, Ottawa.

6. **Waller**, D.M., Y.Q. Lu, and P. David. 2000. Population genetic variation among Wild Rice populations in northern Wisconsin. In : Proceedings of the Wild Rice Research and Management Conference, Williamson, L., L. Dlutkowski and A. McCammon Soltis eds., Great Lakes Indian Fish and Wildlife Commission, Odanah, WI.
7. J.P. Bennett, E.D. Chiriboga, J. Coleman, D.M. **Waller**. 2000. Heavy metal baselines for wild rice from north-central Wisconsin. In Wild Rice: Great Lakes Indian Fisheries and Wildlfie Commission, Odanah, WI.
8. **Waller**, D.M. 1998. Getting back to the right nature: A reply to Cronon's "The trouble with Wilderness." pp. 540-567 in: **The Great New Wilderness Debate**, J.B. Callicott and M.P. Nelson, eds., Univ. of Georgia Press, Athens, GA. [reprinted in various anthologies, including J. Engell et al., eds., Environment: An interdisciplinary anthology, Yale Univ. Press, 2005]
9. Peters, R., D.M. **Waller**, et al. 1997. Standard scientific procedures for implementing ecosystem management on public lands. pp. 320-336 in S.T.A. Pickett, R.S. Ostfeld, M. Shachak, & G.E. Likens, eds., **The Ecological Basis of Conservation: Heterogeneity, Ecosystems, and Biodiversity**, Chapman & Hall, New York.
10. **Waller**, D.M., W.S. Alverson, and S. Solheim. 1996. Local and regional factors influencing the regeneration of eastern hemlock. In G. Mroz and J. Martin, editors, **Hemlock Ecology and Management**, Conference Proceedings, Sept. 27-28, Iron Mountain, MI. Michigan Technological University, Houghton.
11. Alverson, W.S., and D.M. **Waller**. 1997. Deer populations and the widespread failure of hemlock regeneration in northern forests. pp. 280-297 in W. McShea and J. Rappole, eds., **The Science of Overabundance: Deer ecology and population management**, Smithsonian Inst. Press, Washington, DC.
12. **Waller**, D.M. 1996. Biodiversity as a basis for conservation efforts. pp. 16-32, in W. Snape, ed., **Biodiversity and the Law**, Island Press, Washington, DC.
13. **Waller**, D.M., and D.A. Steingraeber. 1995. Opportunities and constraints in the placement of flowers and fruits. Pp. 51-73 in Barbara Gartner, ed., **Plant Stems: Physiology and Functional Morphology**, Academic Press, New York.
14. **Waller**, D.M. 1993. The statics and dynamics of mating system evolution. In N.W. Thornhill, ed., **The Natural History of Inbreeding and Outbreeding: Theoretical and empirical perspectives**, Univ. of Chicago Press.
15. **Waller**, D.M. 1991. Conserving biodiversity: A unified approach. Introductory chapter for **Landscape Linkages and Biological Diversity: A Strategy for Survival**, W. Hudson, ed., Defenders of Wildlife, Seattle.
16. **Waller**, D.M. 1988. Plant morphology and reproduction. Ch. 10 in **Plant Reproductive Ecology: Patterns and Strategies**, J. & L. Lovett Doust, eds., Oxford U. Press.
17. Waller, D.M. 1986. The Dynamics of Growth and Form. Chapter 9 in M. J. Crawley, ed., **Plant Ecology**. Blackwells.
18. **Waller**, D.M. and D. A. Steingraeber. 1985. Branching and modular growth: Theoretical models and empirical patterns. pp. 225-257 in J. B. C. Jackson, L. W. Buss, and R. E. Cook, eds., **The Population Biology and Evolution of Clonal Organisms**, Yale University Press.

Manuscripts near submission:

1. Johnson, S.E., E.L. Mudrak, and D.M. Waller. Long term shifts in diversity and community homogenization in the riparian forests of southern Wisconsin.
2. Mudrak, E., S. Wiegmann, and D.M. **Waller**. Quantifying local patterns of spatial contagion in understory herbs.
3. Mudrak, E. and D.M. **Waller**. Linking fine scale spatial patterns in understory herbs to changes in frequency and site occupancy in a southern Wisconsin forest.

4. **Waller**, D.M., A.J. Bersch, and J. Dole. Does inbreeding purge or fix the genetic load? Experiments in bottlenecked populations of *Brassica rapa* To be submitted, *Evolution.*
5. **Waller,** D.M., Mudrak, E.L., K.L Amatangelo, S.M. Klionsky, and D.A. Rogers. Do fine-scale association analyses predict longer-term impacts of invasive exotic species? Submitted, May 2012.
6. **Waller**, D.M. The fate of the genetic load upon inbreeding: Fixation, purging, epistasis, and the relativity of inbreeding. Invited Perspectives piece, *Evolution*.
7. **Waller**, D.M. Obituary: James F. Crow. American Philisophical Society.

Manuscripts submitted:

1. **Waller**, D.M., E.L. Mudrak, K.L. Amatangelo, S.M. Klionsky, and D.R. Rogers. How do invasive exotic species affect native plants? Patterns of co-occurrence at two scales. Submitted, *J. Applied Ecology*, Dec. 2012.
2. Haynes, M.A., K.-J. S. Kung, J.S. Brandt, Y.P. Yang, & D.M. **Waller**. Hotspots of Climate Change Inside the Eastern Tibetan Plateau. Submitted, *Climatic Change*.
3. Maas, L, and D.M. Waller. Separate and combined effects of deer and garlic mustard on the growth and persistence of native forest plants. Submitted, *J. Applied Ecology*, July 2012.
4. Johnson, S.E., K.L. Amatangelo, S. Horn, S. Ignatowski, and D.M. **Waller**. Mechanisms causing 50-year changes in the groundlayer of riparian forests in southern Wisconsin. Submitted,
5. Wright, S.D., and D.M. **Waller**. Ecotypic variation and plasticity in populations of Lupinus perennis, host-plant of the Karner Blue Butterfly. Submitted, *American Midland Naturalist.*
6. Mudrak, E. and D.M. **Waller**. Describing variation in species abundances over sites. Submitted, *Ecology*.
7. Mudrak, E., D. Rogers, and D.M. **Waller**. Meta-community incidence and abundance predict long-term changes in understory plant communities. Submitted, *Ecology Letters*.
8. Wiegmann, S. M., and D. M. **Waller**. Exotic earthworms and deer interact to alter understory plant communities in Lake States forests. Accepted pending revision, *Natural Areas Journal.*
9. Frerker, K.L, A. Sabo, and D.M. **Waller**. Exclosure experiments implicate white-tailed deer as a primary driver of plant community change. Submitted, *Conservation Biology*.

Publications – journal articles, reviews, and reports:

10. Brandt, J.S., M.A. Haynes, F. Zhendong, T. Kuemmerle, D.M. **Waller**, and V.C. Radeloff. 2012. Regime shift on the roof of the world: Alpine meadows converting to shrublands in the southern Himalayas. In press, *Biological Conservation.*
11. Johnson, S.E., and D.M. **Waller**. 2013. Influence of dam regulation on 55-year canopy shifts in riparian forests. In press, *Canadian J. of Forest Research*.
12. Frerker, K.L, G. Sonnier, and D.M. **Waller**. 2013. Browsing rates and ratios provide reliable indices of ungulate impacts on forest plant communities. In press, *Forest Ecology and Management*.
13. Haynes, M.A., Z.D. Fang, D.M. **Waller**. 2012. Grazing impacts on the diversity and composition of alpine rangelands in northwest Yunnan. *J. Plant Ecology*, doi: 10.1093/jpe/rts021
14. Bai, Changke, A. Follansbee, W.S. Alverson, and D.M. **Waller**. 2012. New reports of nuclear DNA content for 407 vascular plant taxa from the United States. Ann. Bot. doi: 10.1093/aob/mcs222
15. Williams, E.W., and D.M. **Waller**. 2012. Phylogenetic placement of species within the genus *Botrychium* s.s. (Ophioglossaceae) on the basis of plastid sequences, Amplified Fragment Length Polymorphisms, and flow cytometry. *International Journal of Plant Sciences* 173: 516-531.
16. **Waller**, D.M., K.L. Amatangelo, S. Johnson, and D. Rogers. 2012. Wisconsin Vegetation Database - Plant community survey and resurvey data from the Wisconsin Plant Ecology Laboratory. *Biodiversity and Ecology* 4: 255-264. DOI: 10.7809/b-e.00082.
17. Frerker, K., and D.M. **Waller**. 2012. A comparison and evaluation of the methods used to assess the impacts of ungulate browsing and their practicality for use by the Great Lakes Network Office of the

National Park Service. National Resource Report NPS/GLKN/NRR-2012. National Park Service, Fort Collins, CO. Februrary, 2012. 41 pp.

18. Hansen, M.M., I. Olivieri, D.M. **Waller**, and E.E. Nielsen. 2012. Monitoring adaptive genetic responses to environmental change. *Molecular Ecology*. doi: 10.1111/j.1365-294X.2011.05463.x
19. Crall, A.W., R. Jordan, K. Holfelder, G.J. Newman, J. Graham, and D.M. **Waller**. 2012. The impacts of an invasive species citizen science training program on participant attitudes, behavior, and science literacy. *Public Understanding of Science* doi: 10.1177/0963662511434894
20. Wright, Sarah D. and D.M. **Waller**. 2012. Ecotypic variation and plasticity in populations of *Lupinus perennis,* hostplant of the Karner Blue Butterfly. In press, *Ecological Restoration*.
21. **Waller**, D.M. 2011. Review of A Natural History of the New World: The Ecology and Evolution of Plants in the Americas by Alan Graham, Univ. of Chicago Press. Q. Rev. Biol. 86: 357-358.
22. Stetz, J.B., K.C. Kendall, et al. 2011. Genetic monitoring for managers: A new online resource. *J. Fish & Wildlife Mgmt.* 2: 216-219.
23. Crall, A.W., G.J. Newman, T.J. Stohlgren, K.A. Holfelder, J. Graham, and D.M. **Waller**. 2011. Assessing citizen science data quality: An invasive species case study. *Conservation Letters* DOI: 10.1111/j.1755-263X.2011.00196.x
24. Laikre, L., M.K. Schwartz, R.S. Waples, N. Ryman, and The GeM Working Group. 2010. Compromising genetic diversity in the wild: Unmonitored large-scale release of plants and animals. *Trends in Ecology & Evolution* 25: 520-529. doi:10.1016/j.tree.2010.06.013
25. Klionsky, S., K. Amatangelo, and D.M. **Waller**. 2011. Above- and below-ground impacts of European buckthorn (*Rhamnus cathartica* L.) on four native forbs. *Restoration Ecology* 19: 728–737. doi: 10.1111/j.1526-100X.2010.00727.x
26. Amatangelo, K.L, M.R. Fulton, D.A. Rogers, and D.M. **Waller**. 2010. Convergence in forest community composition along an edaphic gradient threatens landscape-level diversity. *Diversity and Distributions* 17: 201–213.
27. Crall, A.W., G.J. Newman, C.S. Jarnevich, T.J. Stohlgren, D.M. **Waller**, and J. Graham. 2010. Improving and integrating data on invasive species collected by citizen scientists. *Biological Invasions*. DOI 10.1007/s10530-010-9740-9
28. Kuemmerle, Tobias, Volker C. Radeloff, Kajetan Perzanowski, Piotr Kozlo, Taras Sipko, Pavlo Khoyetskyy, Andriy-Taras Bashta, Evgenia Chikurova, Ivan Parnikoza, Leonid Baskin, Per Angelstam, and Donald M. Waller. 2010. Predicting potential European bison habitat across its former range. *Ecological Applications*.
29. Kuemmerle, T., Perzanowski, O. Chaskovskyy, K. Ostapowicz, L. Halada, A-T. Bashta, I. Kruhlov, P. Hostert, D.M. **Waller**, and V.C. Radeloff. 2010. European bison habitat in the Carpathian mountains. *Biological Conservation* 143: 908-916.
30. Cole, C.T., J.E. Anderson, R.W. Lindroth, and D.M. **Waller**. 2010. Rising concentrations of atmospheric CO_2 have increased growth in natural stands of quaking aspens (*Populus tremuloides*). *Global Change Biology* 16: 2186–2197. doi: 10.1111/j.1365-2486.2009.02103.x
31. **Waller**, D.M. 2009. Retour à la vraie nature. *Écolgie et Politique* 39: 149-175.
32. **Waller**, D.M., S. Johnson, R. Collins, E. Williams. 2009. Threats posed by ungulate herbivory to forest structure and plant diversity in the Upper Great Lakes Region with a review of methods to assess those threats. National Resource Report NPS/GLKN/NRR-2009/102. National Park Service, Fort Collins, CO. 'Vital Signs' program. March, 2009. 57 pp.
33. Gibson, T.C., and D.M. **Waller**. 2009. Evolving Darwin's "most wonderful plant": An ecological scenario for evolving snap-traps. New Phytologist 183: 575–587. DOI: 10.1111/j.1469-8137.2009.02935.x. News stories - BBC, Smithsonian, etc.
34. Laikre, L. F. Allendorf, L. Aroner, C.S. Baker, D. Gregovich, M. Hansen, J. Jackson, K. Kendall, K. McKelvey, M. Neel, I. Olivieri, N. Ryman, M. Schwartz, R. Short Bull, J. Stetz, D. Tallmon, B. Taylor, C. Vojta, **D. Waller**, Robin Waples. 2009. Genetic diversity is neglected in implementing the Convention on Biological Diversity. *Conservation Biology* 23: 1378-1381. DOI: 10.1111/j.1523-1739.2009.01425.x

35. Rogers, D.A., T.P. Rooney, T. Hawbaker, V. Radeloff, and D.M. **Waller**. 2009. Paying the extinction debt in southern Wisconsin forest understories. *Conservation Biology* 23: 1497-1506. DOI: 10.1111/j.1523-1739.2009.01256.x
36. Mudrak, E.L., S.E. Johnson, and D.M. **Waller**. 2009. Forty-seven year changes in vegetation at the Apostle Islands: Effects of deer on the forest understory *Natural Areas Journal* 29: 167-176.
37. Latham, R., M. D. Grund, S. B. Horseley, B. C. Jones, W. H. McWilliams, C. K. Nielsen, C. S. Rosenberry, R. S. Seymour, B. P. Shissler, and D.M.**Waller**. 2009. Monitoring deer effects on forest ecosystems in Pennsylvania State Forests. Research peer review and recommendations, Pennsylvania Dept. of Conservation & Natural Resources, Bureau of Forestry, Harrisburg, PA.
38. Kraszewski, Sarah, and D.M. **Waller**. 2008. Fifty-five year changes in species composition on dry prairie remnants in southcentral Wisconsin. *J. Torrey Bot. Soc*. 135: 236–244.
39. Rogers, D.A., T.P. Rooney, and D.M. **Waller**. 2008. Shifts in southern Wisconsin forest canopy and understory richness, composition and heterogeneity. *Ecology* 89: 2482–2492.
40. **Waller**, D.M., J. Dole, and A. Bersch. 2008. Effects of stress and phenotypic variation on inbreeding depression in *Brassica rapa*. *Evolution* 62(4): 917-931. doi:10.1111/j.1558-5646.2008.00325.x
41. Johnson, S.E, E.L. Mudrak, E.A. Beever, S. Sanders, and D.M. **Waller**. 2008. Comparing power among three sampling methods for monitoring forest vegetation. *Can. J. For. Res.* 38(1): 143-156. doi:10.1139/X07-121.
42. Stevens, M.T., D.M. **Waller**, and R. Lindroth. 2007. Resistance and tolerance in *Populus tremuloides*: Genetic variation, costs, and environmental dependency. *Evolutionary Ecology* 21: 829–847. DOI 10.1007/s10682-006-9154-4
43. Steven, J.C., and D. M. **Waller**. 2007. Isolation affects reproductive success in low-density but not high-density populations of two wind-pollinated *Thalictrum* species. *Plant Ecology* 190: 131-141. DOI 10.1007/s11258-006-9196-2
44. **Waller**, D.M. 2006. Tracking plant diversity across forest landscapes: Indicators and drivers. Invited paper, IUCN/ UNESCO conference **Biodiversity–Science and Governance**, Paris, Jan. 2005 (http://www.recherche.gouv.fr/biodiv2005paris/en/)
45. Wiegmann, S. M., and D. M. **Waller**. 2006. Biotic homogenization in forest understories: identity and traits of historical "winners" and "losers." *Biological Conservation* 129:109-123.
46. **Waller**, D.M. 2006. Women editors: nominees turned down *Evolution* job. Nature 441: 812.
47. **Waller**, D.M. and S. Wright. 2006. Trouble in the understory. (cover article) *Woodland Management* 27(2): 20-23.
48. **Waller**, D.M. 2006. Re-visioning conservation (a review of Dave Foreman's 'Rewilding North America' Island Press). *Conservation Biology* 20: 587-588.
49. Lu, Y., D.M. **Waller**, and P. David. 2005. Genetic variability is correlated with population size and reproduction in American wild rice (*Zizania palustris var. palustris*) populations. Amer. J. Botany 92: 990-997.
50. **Waller**, D.M. 2005. Backing up our botanical hard disk (review of Ex Situ Plant Conservation: Supporting species survival in the wild, Edward O.Guerrant, Jr., Kayri Havens, and Mike Maunder, eds., Island Press). *Ecological Restoration*.
51. **Waller**, D.M. 2004. Cougars in our backyards (review of David Baron's The Beast in the Garden). *Natural Areas Journal*.
52. Schoennagel, T., D.M. **Waller**, M.G. Turner, and W.H. Romme. 2004. The influence of fire interval on postfire understory communities in Yellowstone National Park USA. *J. Veget. Science* 15: 797-806.
53. Steven, J. C. and D. M. **Waller**. 2004. Reproductive alternatives to insect pollination in four species of *Thalictrum* (Ranunculaceae). *Plant Species Biology* 19:73-80.
54. LaRosa, R.J., D.A. Rogers, T.P. Rooney, and D.M. **Waller**. 2004. Does steeplebush (*Spiraea tomentosa*) facilitate the pollination of Virginia meadow beauty (*Rhexia virginica*)? *Michigan Botanist* 43: 57-63.

55. Rooney TP, DA Rogers, S.M. Wiegmann, and DM **Waller**. 2004. Monitoring non-native plant invasions over fifty years in Wisconsin forests. *Weed Technology* 18: 1266-1268.
56. Côté, S.D., T.P. Rooney, J-P. Tremblay, C. Dussault, and D. M. **Waller**. 2004. Ecological impacts of deer overabundance. *Ann. Rev. Ecol. Evol. System*. 35: 113-147.
57. Rooney, T.P., S. Wiegmann, D.A. Rogers, and D.M. **Waller**. 2004. Biotic impoverishment and homogenization in unfragmented forest understory communities. Conservation Biology 18: 787-798.
58. **Waller**, D. M., and T. P. Rooney. 2004. Nature is changing in more ways than one. *Trends in Ecology & Evolution* 19:6-7.
59. Boyle, O.D., E.S. Menges, D.M. **Waller**. 2003. Dances with fire: Tracking meta-population dynamics of *Polygonella basiramia* in Florida scrub (USA). *Folia Geobotanica* 38: 255-262.
60. Rooney, T.P. and D.M. **Waller**. 2003. Direct and indirect effects of deer in forest ecosystems. *Forest Ecology and Management* 181: 165-176. (Special issue – Forest Dynamics and Ungulate Herbivory: From leaf to landscape)
61. Steven, J. C., T. P. Rooney, O. D. Boyle, and D. M. **Waller**. 2003. Density-dependent pollinator visitation and self-incompatibility in upper Great Lakes populations of *Trillium grandiflorum*. *Journal of the Torrey Botanical Society* 130: 23-29.
62. Keller, L. and D.M. **Waller**. 2002. Inbreeding effects in wild populations. *Trends in Ecology & Evolution* 17: 230-241. (ISI 'Hot new paper' Oct. 2003)
63. Rooney, T.P., S.L. Solheim, and D.M. **Waller**. 2002. Factors influencing the regeneration of northern white cedar in lowland forests of the Upper Great Lakes region, USA. *Forest Ecology & Management* 163: 119-130.
64. **Waller**, D.M. 2002. A steady conscience for troubled times. (Review of R.L. Knight and S. Riedel, eds., Aldo Leopold and the Ecological Conscience, Oxford Univ. Press). *Nat. Areas J.* 23 (1): 85-86.
65. **Waller**, D.M. 2002. Evolution Evolves. *Evolution* 59 (1): i-iv.
66. Willers, W., T. Rooney, R. Fenner, and D. **Waller**. 2002. Evaluating Wildness in the North Woods: A Connected Reserve System for the Midwest. *Wild Earth*.
67. Rooney, T.P. and D.M. **Waller**. 2001. How experimental defoliation and leaf height affect growth and reproduction in *Trillium grandiflorum*. Journal of the Torrey Botanical Society 128: 393-399.
68. Barry, G.R., T.P. Rooney, S.J. Ventura, & D.M. **Waller**. 2001. Evaluation of biodiversity value based on wildness: a study of the western Northwoods, Upper Great Lakes, USA. *Nat. Areas Journal* 21: 229-242.
69. Rooney, R., D. **Waller**, & S. Wiegmann. 2001. Revisiting the Northwoods – a lesson in biotic homogenization. *Wild Earth* 11 (Spring): 45-49.
70. Bennett, J.P., E. Chiriboga, J. Coleman, D.M. **Waller**. 2000. Heavy metals in wild rice from northern Wisconsin. *Science of the Total Environment* 246: 262-269.
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73. Byers, D., and D.M. **Waller**. 1999. Do plant populations purge their genetic load? Effects of population size and mating history on inbreeding depression. *Ann. Rev. Ecol. Syst.* 30: 479-513.
74. Schoennagel, T., and D.M. **Waller**. 1999. Understory responses to high-intensity fire and artificial seeding in an eastern Cascades grand fir forest, USA. *Canadian J. Forest Research* 29: 1393-1401.
75. Stevens, M.T., M.G. Turner, G.A. Tuskan, W.H. Romme, L. Gunter, and D.M. **Waller**. 1999. Genetic variation in postfire aspen seedlings in Yellowstone National Park. *Molecular Ecology* 8: 1769-1780.
76. Borgmann, K.L., D.M. **Waller**, and T.P. Rooney. 1999. Does Balsam Fir (*Abies balsamea*) facilitate the recruitment of Eastern Hemlock (*Tsuga canadensis*)? *American Midland Naturalist* 141: 391-397.
77. Rooney, T., and D.M. **Waller**. 1998. Local and regional variation in hemlock seedling establishment in forests of the upper Great Lakes region, USA. *Forest Ecology and Management* 111: 211-224.

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79. **Waller**, D.M. 1998. Review of: Applied Population Ecology: Principles and computer exercises using RAMAS EcoLab 1.0. *Q. Rev. Biol.* 73: 380-381.
80. **Waller**, D.M., and W.S. Alverson. 1997. The white-tailed deer: A keystone herbivore. *Wildlife Soc. Bull.* 25: 217-226. (lead article in an issue devoted to overabundant deer)
81. **Waller**, D.M. 1998. Shooting the messenger. [invited response to B. Zeide's attack on Aldo Leopold's "Land Ethic" essay] *J. Forestry* 96(4): 26-27. [reprinted 1998 in the Society of American Foresters *Forestry Forum: The Land Ethic*, pp. 125-128]
82. **Waller**, D.M. 1997. Scientists sue the Forest Service to protect biodiversity: Is the Forest Service taking care of business? [Interview] *Environmental Review* 4(3): 1-8.
83. **Waller**, D.M. 1996. Wilderness redux: Can biodiversity play a role? *Wild Earth* (Winter): 36-45.
84. Balgooyen, C.P., and D.M. **Waller**. 1995. The use of *Clintonia* and other indicators to gauge the impacts of White-tailed Deer on plant communities in northern Wisconsin. *Natural Areas Journal* 15: 308-318.
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88. McCall, C., D.M. **Waller**, and T. Mitchell-Olds. 1994. Effects of serial inbreeding on fitness components in *Impatiens capensis*. *Evolution* 48: 818-827.
89. **Waller**, D.M. 1994. Testimony before the Committee on Natural Resources, Joint Oversight hearing on Reform of the Forest Service, Subcommittees on National Parks, Forests, and Public Lands, and Oversight and Investigations, Feb. 1, 1994
90. **Waller**, D.M. 1994. Testimony before the Subcommittee on Agricultural Research, Conservation, Forestry, and General Legislation, Committee on Agriculture, U.S. Senate, Nov. 9, 1993. Wisconsin Academy Review (Spring, 1994): 14-18.
91. **Waller**, D.M. 1993. How does mast-fruiting get started? Trends in Ecology and Evolution 8: 122-123.
92. Uyenoyama, M.K., K.E. Holsinger, and D.M. **Waller**. 1993. Ecological and genetic factors directing the evolution of self-fertilization. *Oxford Surveys in Evolutionary Biology* 9: 327-381.
93. Crow, T.R., A. Haney, and D.M. **Waller**. 1993. Report on the scientific roundtable on biological diversity convened by the Chequamegon and Nicolet National Forests. Gen. Tech. Rep. NC-166. St. Paul, MN: U.S.Dept.Agriculture, Forest Service, North Central Forest Experiment Station. 55pp.
94. **Waller**, D.M. 1993. Wisconsin's Scientific Roundtable: Uniting research and management. *Inner Voice* 5(3): 13.
95. **Waller**, D.M. 1992. Priorities for plants. Review of **Genetics and Conservation of Rare Plants**, D.A. Falk and K.E. Holsinger, eds. *Science* 256: 1055-1056.
96. Alverson, W.S., and D.M. **Waller**. 1992. Is it un-biocentric to manage? *Wild Earth* 2(4): 9-10.
97. Uyenoyama, M.K., & D.M. **Waller**. 1991. Coevolution of self-fertilization and inbreeding depression III. Homozygous lethal mutations at multiple loci. *Theoretical Population Biology* 40: 173-210.
98. McCall, C., T. Mitchell-Olds, & D. **Waller**. 1991. The distance between mates affects seedling characters in a population of *Impatiens capensis* (Balsaminaceae). *Amer. J. Bot.* 78: 964-970.
99. Uyenoyama, M.K., & D.M. **Waller**. 1991. Coevolution of self-fertilization and inbreeding depression II. Symmetric overdominance in viability. *Theoretical Population Biology* 40: 47-77.

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101. Solheim, S.L., D.M. **Waller**, & W.S. Alverson. 1991. Inventory and monitoring in the Chequamegon National Forest. Report to Congress's **Office of Technology Assessment** (32 pp)
102. **Waller**, D.M., M. Kuchenreuther, & S. Solheim. 1990. Rare plants, unusual habitats, and disappearing disturbance regimes. Paper delivered to Society for Ecological Restoration and International Congress of Systematics and Evolutionary Biology.
103. **Waller**, D.M., and S.E. Knight. 1989. Genetic consequences of outcrossing in the cleistogamous annual, *Impatiens capensis*. III. Multilocus associations. *Heredity* 63: 1-9.
104. McCall, C., T. Mitchell-Olds, & D.M. **Waller**. 1989. Fitness consequences of outcrossing in *Impatiens capensis*: Tests of the frequency dependent and sib competition hypotheses. *Evolution* 43: 1075-1084.
105. **Waller**, D.M., and S.E. Knight. 1989. Genetic consequences of outcrossing in the cleistogamous annual *Impatiens capensis*. II. Outcrossing rates and genotypic correlations. *Evolution* 43: 860-869.
106. **Waller**, D.M. 1989. Evolutionary mechanisms. Review of **Mutation, Developmental Selection, and Plant Evolution**, E.J. Klekowski, Jr., Columbia University Press, New York. Science 243: 676-677.
107. **Waller**, D.M. 1989. Preserving biological diversity. *Public Lands* (Newsletter of the Sierra Club Public Lands Committee) 7(2): 1-2.
108. **Waller**, D.M. 1988. Sharing responsibility for conserving diversity: The complementary roles of conservation biologists and public land agencies. *Conservation Biology* 2(4): 398-401.
109. Alverson, W.S., D.M. **Waller**, & S.L. Solheim. 1988. Forests too deer: Edge effects in northern Wisconsin. Conservation Biology 2(4): 348-358.
110. **Waller**, D.M., D.M. O'Malley, and S.C. Gawler. 1988. Genetic variation in the extreme endemic, *Pedicularis furbishiae*. Conservation Biology 1: 335-340.
111. Knight, S.E., and D.M. **Waller**. 1987. Genetic consequences of outcrossing in the cleistogamous annual *Impatiens capensis*. I. Population genetic structure. Evolution 41: 969-978.
112. Gawler, S.C., D.M. **Waller**, and E.S. Menges. 1987. Environmental factors affecting establishment and growth of *Pedicularis furbishiae*, a rare endemic of the St. John River valley, Maine. Bull. Torrey Bot. Club 114: 280-292.
113. Chung, J.C., and D.M. **Waller**. 1986. Ecological correlates of insect predation intensity on seeds of smooth sumac (*Rhus glabra* L.). Am. Midl. Nat. 116: 315-322.
114. Steingraeber, D.A., and D.M. **Waller**. 1986. Nonstationarity of tree branching patterns and bifurcation ratios. Proc. Roy. Soc., London (B) 228: 187-194.
115. **Waller**, D.M. 1986. Is there disruptive selection for self-fertilization? Amer. Natur. 128: 421-426.
116. Menges, E.S., D.M. **Waller**, and S.C. Gawler. 1986. Seed set and seed predation in *Pedicularis furbishiae*, a rare endemic of the St. John River, Maine. Amer. J. Bot. 73: 1168-1177.
117. Schnee, B.K., and D.M. **Waller**. 1986. Reproductive behavior of *Amphicarpaea bracteata* (Leguminosae), an amphicarpic annual. Amer. J. Bot. 73: 376-386.
118. Menges, E.S., S.C. Gawler, and D.M. **Waller**. 1985, 1986. Population Biology of the endemic plant, Furbish's Lousewort (Pedicularis furbishiae). Unpublished reports on 1984 and 1985 research to the **U. S. Fish & Wildlife Service**, April 1985 (126 pp.) and July 1986.
119. **Waller**, D.M. 1985. The genesis of size hierarchies in seedling populations of *Impatiens capensis*. New Phytologist 100: 243-260.
120. Mitchell-Olds, T., and D.M. **Waller**. 1985. Relative performance of seedlings derived from chasmogamous and cleistogamous flowers in *Impatiens capensis*. Evolution 39: 533-544.
121. **Waller**, D.M. 1984. Niklas's simulations of branching in early land plants: Canalization of parameters? Paleobiology 10: 115-117.
122. **Waller**, D.M. 1984. Differences in fitness between seedlings derived from cleistogamous and chasmogamous flowers in *Impatiens capensis*. Evolution 38: 427-440.
123. Menges, E.S., and D.M. **Waller**. 1983. Plant strategies in relation to elevation and light in floodplain herbs. Amer. Natur. 122: 454-473.

124. Madsen, J.D., and D.M. **Waller**. 1983. A note on the evolution of gamete dimorphism in algae. Amer. Natur. 121: 443-447.
125. **Waller**, D.M. 1982. Factors influencing seed weight in *Impatiens capensis* (Balsaminaceae). Amer. J. Bot. 69: 1470-1475.
126. **Waller**, D.M. 1982. Jewelweed's sexual skills. Natural History 91(5): 32-39.
127. **Waller**, D.M. 1981. Neighborhood competition in several violet populations. Oecologia 51: 116-122.
128. **Waller**, D.M., and D. Green. 1981. Implications of sex for the analysis of life histories. Amer. Natur. 117: 810-813.
129. **Waller**, D.M. 1980. Environmental determinants of outcrossing in the woodland annual, *Impatiens capensis*. Evolution 34: 747-761.
130. **Waller**, D.M. 1979. Models of mast-fruiting in trees. J. Theoretical Biology 80: 223-232.
131. **Waller**, D.M. 1979. The relative cost of selfed and outcrossed seed in *Impatiens capensis*. Amer. J. Bot. 66: 313-320.

Teaching Experience -- Undergraduate:

Introductory Biology (Biology 151, 200+ student intro survey course – responsible for evolution and diversity unit)
Ecological case studies: a Midwestern approach (Bot/Zool 450, web-based course aimed at continuing and adult students – last enrollment: 85)
Ecological techniques for field monitoring (Bot/Zoology 459 - summer field course)
Introductory Ecology (Bot/Zool 260; non-majors lecture course, 180 students)
http://www.botany.wisc.edu/courses/Botany_260/
Field Biology of the Subtropics (Bot/Zool 639/640)
(Intensive 'capstone' field course; 18 seniors; with J. Baylis)
Population Biology (Biocore 333)
(Honors course; 75 students; with J. Crow)
Survey of Botany (Botany 100)
(Lecture course; 340 students; with K. Keegstra)

Graduate:

Suburban sprawl and land use (Environmental Studies 400, 3 cr.
Population Genetics (with Prof's Crow, Givnish and Haygood)
Conservation Biology (Bot/Zool/Wildl.Ecol./Env.Stud. 651 with Drs. Arcese and Temple)
Evolutionary Plant Ecology (Botany 828, 3 cr. seminar course)
Theoretical Ecology (Botany 830, 3 cr. seminar course)

Seminars:

Plant functional traits; Neutral community models; Conservation & development; Ecological monitoring & assessment; Meta-population dynamics; Landscape ecology; Public lands management; Conservation biology; History of the Modern Synthesis; Pollination and dispersal ecology; Coevolution; Genetic population structure.

Undergraduate Advising:

2006-present; 1989-1994. Chair, undergraduate major in **Biological Aspects of Conservation**, College of Letters and Sciences (redesigned and revitalized this major and managed it through a period of growth from ~10 to more than 150 students in the early 90's)
Typically advising 20+ students in BAC and Botany plus 2-4 seniors doing independent projects or thesis research.

Post-Graduate Training:

I have trained 6 post-docs, 22 Ph.D. students, and over 20 MS students in several programs including Botany, Genetics, Plant Breeding & Plant Genetics, and Conservation Biology & Sustainable Development.

Current MS students: Katie Frerker (Botany). M. Pulver, and K. Marie Russo (CB/SD)
Current Ph.D. students: Daijiang Li.
Current Post-docs and Visiting Scientist:

1. Grégory Sonnier -- PhD: U. Sherbrooke, Quebec, W. Shipley, and SupAgro, Montpellier, France, M-L. Navas & E. Garnier (CNRS).
2. Sara Souther -- PhD: Univ. of West Virginia, J. McGraw.
3. Dr. Chengke Bai, Assoc. Prof., Shaanxi Normal University, China.

Former post-docs and their current positions (not including former PhD students):

1. Kathryn Amatangelo (Stanford PhD) – Post-doc, Brown University.
2. Thomas P. Rooney (UW-Madison PhD) – Asst. Professor, Wright State University, OH.
3. Rachel Collins – Roanoke College.
4. Jeffrey Dole (Univ. California-Davis PhD) – deceased.
5. Yingqing Lu (UW-Madison PhD) – Chinese Academy of Sciences, Beijing
6. Claire McCall (Trinity College)

Former Doctoral Students and their current positions:

1. Evelyn Williams (2011) – PhD in Botany. Chicago Botanical Garden.
2. Michelle Haynes (2011) – PhD in Botany. U.S. Fish & Wildlife Service, Shepardstown, WV.
3. Sarah Johnson (2011) – PhD in Botany; Post-doc, Univ. of Wisconsin – Madison (2011) then Asst. Prof., Northland College (2011).
4. Erika Mudrak (2010) – PhD in Botany; Post-doc, Iowa State University
5. Alycia Crall (2010) – PhD in Land Resources (now Environment & Resources)
6. David Rogers (2006) "Long-term shifts in southern Wisconsin forest communities" Post-doc with Dr. Sara Hotchkiss. Now Assistant Prof., Univ. of Wisconsin – Parkside.
7. Shannon Wiegmann (2005) "Fifty years of change in northern forest understory plant communities of the upper Great Lakes" Part-time community college instructor.
8. Catherine Woodward (2005) "Reproductive success, genetic diversity, and gene flow in fragmented populations of two understory tree species in Costa Rica" Staff with UW's CBE and Instructor, Univ. of Wisconsin – Madison and field course in Quito, Ecuador. Ceiba
9. Michael Stevens (2005) "Plant defense against herbivores: Resistance and tolerance in *Populus tremuloides*" Assistant Professor, California State University, Stanilaus.
10. Owen Boyle (2004) "Metapopulation ecology, genetics, and viability of *Polygonella basiramia*, an endangered plant of Florida scrub" Now Regional Ecologist, Wisconsin Department of Natural Resources, SE Region (Milwaukee)
11. Janet Steven (2003) Assistant Professor, Sweet Briar College, Sweet Briar, VA (following post-doc at Indiana University with L. Delph)
12. Tania Schoennagel (2003) NSF BioInformatics and Smith Fellow Post-docs, University of Colorado, Boulder. Now Research Scientist and Adjunct Assistant Professor. Institute of Arctic and Alpine Research (INSTAAR) and Dept. of Geography, University of Colorado- Boulder
13. Thomas Rooney (2000) Associate Professor, Department of Biology, Wright State University, Ohio.
14. Hilary Callahan (1995) Associate Professor, Barnard College, Columbia University, New York, NY.

15. YingQing Lu (1995) Chinese Academy of Sciences, Beijing (following Post-doc at Duke University).
16. James Meeker (1993) Professor Emeritus, Northland College, Ashland, WI.
17. Stephen L. Solheim (1991) Associate Professor, Univ. of Wisconsin-Whitewater.
18. Margaret Kuchenreuther (1991) Professor, Univ. of Minnesota-Morris.
19. C. Rick Williams (1991) Director, Idaho State Museum of Natural History and Associate Professor, Idaho State University, Pocatello.
20. Susan Gawler (1988) Community Ecologist, Maine State Natural Areas Program.
21. Susan Knight (1988) Research limnologist, Wisconsin Dept Natural Resources.
22. S. Thomas Mitchell-Olds (1985) Professor, Duke University, Durham, NC.
23. Eric Menges (1983) Senior Research Scientist, Archbold Biological Station, Lake Placid, Florida
24. David Steingraeber (1980) Associate Professor, Colorado State University, Fort Collins.

Former Masters of Science Students (not listed above, Botany unless noted otherwise):

1. Don Pay – 1980 - TNC? South Dakota
2. Brad Schnee – 1981 - Physician, working in Baraboo, WI
3. Karen Crossley – 1983 UW Foundation; now Chair, Dane Co. Arts Board
4. Jayson Chung – 1984 Wisconsin DNR – coastal zoning
5. Leticia Hernandez-Lopez – 1991 - Univ. of Guadeljara, Manatlán
6. Cara Nelson - 1994 – Conservation Biology & Sustainable Development
7. Christine Balgooyen – 1995 - Massachusetts Audubon
8. David McWethy – 1998 – Conservation Biology & Sustainable Development
9. Andrew Bersch – 2007 – Botany and Biometry – USFWS Animal Disease Lab
10. Sarah Wright – 2008 – Center for Biology Education, Univ. of Wisconsin - Madison
11. Sarah Klionsky – 2009 – Botany & Conservation Biology & Sustainable Development
12. Ann Busche – 2010 – Conservation Biology & Sustainable Development
13. Lisa Maas, - 2011 – Conservation Biology & Sustainable Development; USFWS

Recent University Service:

Sustainability Task Force – Co-Chair, Transportation Working Group (2010)
Academic Planning Council, College of Letters and Sciences (2009-2012)
Academic Planning Council, Nelson Inst. for Environmental Studies (2009-2010)
Campus Lakeshore Preserve Committee (2005-2010)
Campus Transportation Committee - Bicycle-Pedestrian Sub-committee (2004-2010), Chair, 2007-08
Graduate Faculty Executive Committee (2002-2006)
Biological Sciences Divisional Committee, Curriculum Planning. (1999-2001)
Arboretum Committee - Chair, 1994-1998; 1986-88.
Campus Planning Committee - 1994-95 (and Master Planning Steering Committee).

Grants and Awards – I am PI on all of these unless listed otherwise

Pending: (none)

Current: Comparative analyses of forest tree and vegetation monitoring. National Park Service - Great Lakes Network Office. Oct. 2011 - Sept. 2013 ($26,061)

Dimensions: Roles of functional, phylogenetic, and genetic diversity in structuring and sustaining plant communities through environmental change. NSF – Dimensions of

Biodiversity program. Dec. 2010 – Dec. 2015. ($2,934,940, with co-PI's Cameron, Givnish, and Sytsma, UW-Botany). See: http://botany.wisc.edu/dob/

Analyzing impacts of white-tailed deer on northern forests using experimental exclosures. Huron Mountain Club, Marquette, MI ($5915)

Predicting invasions and their impacts on forest regeneration and plant diversity. USDA – NRI 51.1 – Weedy & invasive Species program, Oct. 2007 – Dec. 2010 ($326K) - 2008-35320-18680

Integrating Invasive Plant Species Data in the Midwest: Solutions for Data Collection and Management. Meeting grant - USDA - North Central IPM Center, Oct. 2007 – Apr. 2008 ($10K)

A functional approach to analyzing long-term change in plant communities. NSF – DEB - 0717315, Sept. 2007 – Dec. 2010. ($362,770)

Recent: Conservation science and environmental issues in cross-cultural perspective. NSF OISE-0623583, International Programs, Aug. 1, 2006 – Dec. 2009 ($147K) – To support graduate student research exchange program with a university (SupAgro) in Montpellier, France.

UW Graduate School. Causes and consequences of plant invasions in S Wisconsin forests: Predicting invasions, impacts and interactions with deer herbivory. July 2006 – Sept. 2007 ($24K)

State of knowledge and future monitoring of white-tailed deer browsing impacts in the Great Lakes network. Natl. Park Service / Univ. Minnesota, Aug. 2004 – March 2007. ($45,475)

Terrestrial vegetation structure and dynamics. Natl. Park Service / Univ. Minnesota, July 2004 – Dec. 2005. ($32,195)

Mechanisms of species loss and biotic homogenization in forest herb communities. NSF – Ecology Award 0236333, Sept., 2003 – June 2007 ($300,000) DEB 023633.

Local perspectives on global ecological change. NSF – Ecology, Feb. 2005 – May 2006 ($10,200) – Supplement to above to support U. Chicago book.

Causes and consequences of weedy plant invasions in forestlands. USDA-NRI, program 51.9, July 2003 – Dec. 2006 ($253K) CSREES: 2003-02472

Gene flow, reproductive success, and inbreeding depression in fragmented populations of three tropical tree species. NSF Dissertation Improvement Award, 5/02 – 5/03 ($9650)
Patterns of species loss in forest understory plant communities. (NSF DEB 9974041, August, 1999 – Dec, 2002, $150,000)

Shifts in the genetic load in response to inbreeding and population size in *Brassica rapa*. NSF Jan. 1998 - June 2001 (DEB 97-28855, $135,000 + supplements)

Genetic variability in wild rice. Great Lakes Indian Fisheries and Wildlife Commission, Odanah, WI. July 1997 – Dec.. 1999. ($16,000)

Recent Invited Seminars:

Cornell University, Ithaca, NY "Disassembly rules: Local, landscape, and hoofed drivers of ecological change in Wisconsin forests" Mar. 15, 2011.

Iowa State University, Ames. Experiments in *Brassica rapa"* and "Through the Looking Glass: Using 50 year old data to infer drivers of ecological change" Oct. 21-22, 2010.

Eminent speakers series - UW Fox Valley, Menasha "Environmental Impact of White-tailed deer - Managing an Overabundant Herbivore", Oct. 16, 2010.

Aldo Leopold Foundation, Baraboo and the Center for Humans and Nature "The Vanishing Present", Sept. 28, 2010.

Musée Nationale Histoire Naturelle, Paris, France. "Dis-assembly rules: Long-term shifts in Wisconsin forest communities", Sept. 20, 2010.

Univ. of Wisconsin-Madison Biology Colloquium Series, Spring, 2010

Univ. of Michigan Biological Station, Bennett Endowed Lecture in Plant Biology, Aug. 4-5, 2009

Université de Lausanne (UNIL), Switzerland "Tracking ecological change in forest plant communities" May, 2009

CNRS / CEFE – Montpellier, France – Jan. 2009
Northwestern University / Chicago Botanical Garden – April, 2007
Univ. of Connecticut – Ecology, evolution and behavior – April 2006
"Unveiling the invisible present: Tracking changes in forest plant diversity and community composition"

Professional Affiliations:

American Society of Naturalists, Botanical Society of America, British Ecological Society, Natural Areas Association, Society for Conservation Biology, Society for the Study of Evolution, American Association for the Advancement of Science, Torrey Botanical Society, Wisconsin Botanical Club.