

## CURRICULUM VITAE - G. David Tilman

**BIRTH:** Aurora, Illinois (1949)

**ADDRESS:** Department of Ecology, Evolution and Behavior  
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University of Minnesota, St. Paul, Minnesota 55108-6097  
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### EDUCATIONAL HISTORY:

University of Michigan 8/67-5/71 B.S. Zoology (High Distinction)  
University of Michigan 9/71-4/76 Ph.D. Zoology (Ecology)

### PROFESSIONAL APPOINTMENTS:

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|--|--------------|
| Assistant Professor, University of Minnesota                         | 1976-1980    |
| Associate Professor, University of Minnesota                         | 1980-1984    |
| Professor, University of Minnesota                                   | 1984-1996    |
| Director, Cedar Creek Natural History Area                           | 1992-present |
| Distinguished McKnight University Professor                          | 1996-2001    |
| Member, Institute for Advanced Study, Princeton, NJ                  | 2000         |
| Senior Visiting Fellow, Princeton University                         | 2000         |
| Fellow, National Center for Ecological Analysis and Synthesis        | 2001         |
| McKnight Presidential Chair in Ecology                               | 2001-present |
| Regents Professor, University of Minnesota                           | 2002-present |
| Zurich Distinguished Visitor, University of California Santa Barbara | 2011         |
| Professor, University of California Santa Barbara                    | 2012-present |

### AWARDS AND HONORS:

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|---|-----------|
| Guggenheim Fellow   | 1984-1985 |
| Fellow, American Association for the Advancement of Science   | 1985      |
| W. S. Cooper Award, Ecological Society of America   | 1989      |
| Elected to the American Academy of Arts and Science   | 1995      |
| Pew Scholar in Conservation Biology   | 1995-1998 |
| MacArthur Award, Ecological Society of America  | 1997      |
| New York Times "Scientist of the Week" in NYT <i>Science Times</i>  | 1998      |
| Elected to the National Academy of Sciences   | 2002      |
| Designated the Most Highly Cited Scientist in Environment/Ecology<br>of the Past Decade by Essential Science Indicators | 1998-2008 |
| Botanical Society of America Centennial Award   | 2006      |
| Princeton Environmental Prize, PEI and PUP  | 2006      |
| Honorary Professor, China Agricultural University   | 2007      |
| International Prize for Biology-Japan Society for the Promotion of Science  | 2008      |
| A. H. Heineken Prize for Environmental Sciences   | 2010      |
| Minnesota Science and Technology Hall of Fame Inductee  | 2010      |

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| Fellow, Ecological Society of America<br>Alexander von Humboldt Medal, | 2012 |
| International Association for Vegetation Science                       | 2013 |
| Honorary Member, British Ecological Society                            | 2013 |

**NATIONAL AND INTERNATIONAL SERVICE:**

|   |                           |
|---|---------------------------|
| Board of Directors, Organization for Tropical Studies   | 1980-1982                 |
| National Coordinating Committee, Long-Term Ecological Research<br>Ecology Panel, National Science Foundation  | 1981-present<br>1989-1993 |
| Advisory Committee to the Director of the National Science Foundation   | 1990                      |
| National Research Council, Committee on Environmental Issues in<br>Pacific Northwest Forest Management  | 1993-1995                 |
| Biodiversity and Ecosystems Panel of the President's Committee of<br>Advisors on Science and Technology (PCAST; White House)  | 1997-1998                 |
| Science Advisory Panel for Public Radio International's <i>The World</i><br>Membership Committee for the Evolutionary, Population Biology<br>and Ecology Section of the American Academy of Arts and<br>Sciences (Chair: 2002-2005) | 1997-1998<br>1999-2005    |
| Co-Editor for Princeton University Press/Princeton Environmental<br>Institute Series on the Environment   | 2001-2006                 |
| Member, Board on Environmental Studies & Toxicology, National<br>Academy of Sciences  | 2002-2005                 |
| Chair, National Research Council's Committee on the<br>National Ecological Observatory Network (NEON)   | 2003                      |
| Member, National Research Council panel, National Academies<br>Committee on Setting Priorities for Large Research Facility<br>Projects Supported by the National Science Foundation   | 2003                      |
| Consulting Member, NEON Emerging Issues Subcommittee  | 2004-2005                 |
| Section Head for "Community Ecology and Biodiversity" of the<br>Faculty of 1000   | 2004-2007                 |
| Member, Search Committee for National Science Foundation's<br>Assistant Director for Biology  | 2004-2005                 |
| Chair, Environmental Science and Ecology Section, National<br>Academy of Science  | 2004-2007                 |
| Scientific Advisory Board, Max Plank Institute for Biogeochemistry  | 2005-2010                 |
| Member, National Science Foundation, National Ecological<br>Observatory Network (NEON) Committee  | 2005                      |
| Chair, National Science Foundation, National Ecological<br>Observatory Network (NEON) Review Panel  | 2006                      |
| Member, Board of Trustees, Minnesota Nature Conservancy   | 2006-present              |
| Member, Editorial Advisory Board, Encyclopedia of Biodiversity<br>online update   | 2006-2007                 |
| Founding Fellow, Institute on the Environment, University of<br>Minnesota   | 2007-2008                 |

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| Member, National Research Council, Colloquium on the Water Implications of Biofuels Production in the United States          | 2007         |
| Vice Chair, Panel on Alternative Liquid Transportation Fuels for The National Academies Committee on America's Energy Future | 2007-2008    |
| Governor's Minnesota Climate Change Advisory Board   | 2007         |
| Member, National Research Council, Panel on "America's Energy Future"  | 2007-2008    |
| Vice Chair, NRC Panel on "Alternative Liquid Transportation Fuels"   | 2007-2008    |
| Chair, National Academy of Sciences Nominating Committee   | 2008-2009    |
| Chair, NSF Site Review Committee for NCEAS, Santa Barbara  | 2009         |
| Resident Fellow, Institute on the Environment, University of Minnesota   | 2009-2011    |
| Board of Trustees, Science for Peace, Fondazione Umberto Veronesi  | 2009-present |
| Scientific Advisory Panel, Climate Recovery Partnership, Sierra Club   | 2009-present |
| Chair, Class VI: Applied Biological, Agricultural, and Environmental Sciences National Academy of Sciences                   | 2009-2012    |
| Carbon Offsets Working Group, President's Committee of Advisors on Science and Technology (PCAST; White House)               | 2010-2011    |
| Member, NSF LTER 30-year Review Panel  | 2010         |
| Agricultural Preparedness Planning Session, President's Committee of Advisors on Science and Technology (PCAST; White House) | 2011         |
| Peer Review Committee of Netherland's Biology Research Institutes  | 2011         |
| U.S. National Committee for DIVERSITAS   | 2012         |
| Science Review Panel for ExxonMobil  | 2012         |
| Member, CHESS Panel, Council of Scientific Society Presidents  | 2012         |
| Roundtable on Environmental Health Sciences, Research and Medicine   | 2012-2013    |
| Member of Editorial Boards for:  |              |
| <i>Limnology and Oceanography</i>  | 1978-1981    |
| <i>Ecology</i>   | 1982-1984    |
| <i>Acta Oecologica</i> (Paris, France)   | 1990-1994    |
| <i>The American Naturalist</i>   | 1990-1994    |
| <i>Issues in Ecology</i> (Founding Editor)   | 1994-2004    |
| <i>Science</i> (Board of Reviewing Editors)  | 1996-1999    |
| <i>International Journal of Plant Sciences</i>   | 1999-2003    |
| <i>Proceedings of the National Academy of Science</i>  | 2002-2004    |
| <i>Environmental Research Letters</i>  | 2006-present |
| <i>Encyclopedia of Biodiversity</i> , 2 <sup>nd</sup> ed.  | 2011-2012    |

**NAMED LECTURES AND KEYNOTE ADDRESSES:**

|   |      |
|---|------|
| The Per Brink Lecture, Lund University, Sweden                  | 1988 |
| The Moore Lecture, University of Virginia                       | 1991 |
| Keynote Address, IX Congress of the Italian Society of Ecology  | 1999 |
| Glaser Distinguished Lecturer, Florida International University | 1999 |
| The Henry Oosting Lecture, Duke University                      | 1999 |
| The Holm-Thomas Lecture, Stanford University                    | 2001 |
| 50 <sup>th</sup> Anniversary of the Ecological Society of Japan | 2003 |

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| PEI-PUP Environmental Prize Lecture Series, Princeton University              | 2006 |
| Boething Public Lecture, Stanford University                                  | 2008 |
| International Prize for Biology Address, Tokyo, Japan                         | 2008 |
| 25 <sup>th</sup> Anniversary of International Prize for Biology, Tokyo, Japan | 2009 |
| The Joan Marsden Lecture, McGill University                                   | 2010 |
| The Graham Lecture, University of Toronto                                     | 2011 |
| Keynote Talk, International Association for Vegetation Science                | 2013 |
| Plenary Talk, 100 <sup>th</sup> Anniversary of the British Ecological Society | 2013 |

**PROFESSIONAL AFFILIATIONS:**

American Academy of Arts & Sciences  
American Association for the Advancement of Science  
American Society of Naturalists  
Ecological Society of America  
National Academy of Sciences

**PUBLICATIONS:**

**BOOKS**

Tilman, D. 1982. Resource Competition and Community Structure. Monographs in Population Biology, Princeton University Press. 296 pp.

Tilman, D. 1988. Plant Strategies and the Dynamics and Structure of Plant Communities. Monographs in Population Biology, Princeton University Press. 360 pp.

Grace, J. and D. Tilman, Editors. 1990. Perspectives in Plant Competition. Academic Press, New York. (Republished in 2003)

Tilman, D. and P. Kareiva, Editors. 1997. Spatial Ecology: The Role of Space in Population Dynamics and Interspecific Interactions. Princeton University Press, New Jersey.

Kinzig, A. P., S. W. Pacala and D. Tilman. 2002. The Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions. Princeton University Press, Princeton, New Jersey and Oxford, United Kingdom.

**ARTICLES**

Isbell, F., P.B. Reich, D. Tilman, S.E. Hobbie, S. Polasky, S. Binder. 2013. Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. PNAS 110: 11911-11916.

Pasari, J., T. Levi, E. Zavaleta, D. Tilman. 2013. Several scales of biodiversity affect ecosystem multifunctionality. PNAS 110: 10219-10222.

C. Farrior, D. Tilman, R Dybzinski, P. Reich, S. Levin, and S. Pacala. 2013. *In press*. Resource limitation in a competitive context determines complex plant responses to experimental resource

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additions. *Ecology*. <http://dx.doi.org/10.1890/12-1548.1>

Mueller, K., D. Tilman, D. Fornara and S.E. Hobbie. 2013. Root depth distribution and the diversity-productivity relationship in a long-term grassland experiment. *Ecology*, in press.

Isbell, F., D. Tilman, S. Polasky and S. Binder. 2013. Low biodiversity state persists two decades after cessation of nutrient enrichment. *Ecology Letters*, in press (published online as doi: 10.1111/ele.12066).

De Mazancourt, C., F. Isbell, A. Larocque, F. Berendse, E. De Luca, B. Haegeman, H. W. Polley, C. Roscher, B. Schmid, D. Tilman, J. van Ruijven, A. Weigelt, B. Wilsey and M. Loreau. 2013. Predicting ecosystem stability from community composition and biodiversity. *Ecology Letters*, in press.

Tilman, D. 2012. Biodiversity and environmental sustainability amid human domination of global ecosystems. *Daedalus* 141: 108-120.

Reich, P.B., D. Tilman, F. Isbell, K. Mueller, S.E. Hobbie, D.F.B Flynn, N. Eisenhauer. 2012. Impacts of biodiversity loss escalate through time as redundancy fades. *Science* 336: 589-592.

Kinzig, A.P., C. Perrings, F.S. Chapin, S. Polasky, V.K. Smith, D. Tilman, and B.L. Turner. 2012. Ecosystem services: free lunch no more response. *Science* 335: 656-U131.

Tilman, D., P.B. Reich and F. Isbell. 2012. Biodiversity impacts ecosystem productivity as much as resource disturbance or herbivory. *PNAS* 109: 10394-10397.

Borer, E., E.W. Seabloom and D. Tilman. 2012. Plant diversity controls arthropod biomass and temporal stability. *Ecology Letters* 15: 1457-1464.

Fornara, D.A. and D. Tilman. 2012. Soil carbon sequestration increased by chronic nitrogen addition. *Ecology* 93: 2030-2036.

Cardinale, B.J., J.E. Duffy, A. Gonzalez, D.U. Hooper, C. Perrings, P. Venail, A. Narwani, G.M. Mace, D. Tilman, D.A. Wardle, A.P. Kinzig, G.C. Daily, M. Loreau, J.B. Grace, A. Larigauderie, D.S. Srivastava and S. Naeem. 2012. Biodiversity loss and its impact on humanity. *Nature* 486: 59-67.

Cadotte, M.W., R. Dinnage and D. Tilman. 2012. Phylogenetic diversity promotes ecosystem stability. *Ecology* 93: S223-S233.

Dinnage, R., M.W. Cadotte, N. Haddad, G. Crutsinger, John Haarstad and D. Tilman. 2012. Diversity of plant evolutionary lineages promotes arthropod diversity. *Ecology Letters* 15: 1308-1317.

Dybzinski, R., and D. Tilman. 2012. Seed and microsite limitation in a late-successional old field: the effects of water, adults, litter, and small mammals on seeds and seedlings. *Plant Ecology* 213:

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1003-1013.

Kinzig, A., F. S. Chapin, C. Perrings, S. Polasky, V. K. Smith, D. Tilman and B. Turner. 2011. Paying for ecosystem services. *Science* 334: 603-604.

Tilman, D., C. Balzer, J. Hill and B. Befort. 2011. Global food demand and the sustainable intensification of agriculture. *PNAS* 108: 20260-20264.

Foley, J.A., N. Ramankutty, E. Bennett, K. Brauman, S. Carpenter, E. Cassidy, J. Gerber, J. Hill, M. Johnston, C. Monfreda, N. Mueller, C. O'Connell, S. Polasky, D. Ray, J. Rockstrom, J. Shehan, S. Siebert, D. Tilman, P. West and D. Zaks. 2011. Solutions for a cultivated planet. *Nature* 478: 337-342.

Isbell, F., V. Calcagno, A. Hector, J. Connolly, W.S. Harpole, P.B. Reich, M. Scherer-Lorenzen, B. Schmid, D. Tilman, J. van Ruijven, A. Weigelt, B. Wilsey, E. Zavaleta and M. Loreau. 2011. How many plant species are needed to maintain ecosystem functioning and services? *Nature* 477: 199-202.

Tilman, D. 2011. Diversification, biotic interchange and the Universal Tradeoff Hypothesis. *The American Naturalist* 178: 355-371.

Fornara, D., R. Bardgett, S. Steinbeiss, D. Zak, G. Gleixner and D. Tilman. 2011. Plant effects on N mineralization are mediated by the composition of multiple soil organic fractions. *Ecology Research* 26:201-208.

Haddad, N.M., G.M. Crutsinger, K. Gross, J. Haarstad, and D. Tilman. 2010. Plant diversity and stability of foodwebs. *Ecology Letters* 14:42-46.

DeHaan, L. R., S. Weisberg, D. Tilman, and D. Fornara. 2010. Agricultural and biofuel implications of a species diversity experiment with native perennial grassland plants. *Agriculture Ecosystems & Environment* 137:33-38.

Searchinger, T., S. Hamburg, J. Melillo, W. Chameides, P. Havlik, D. Kammen, G. Likens, M. Obersteiner, M. Oppenheimer, G. Robertson, W. Schlesinger, R. Lubowski, and D. Tilman. 2010. Bioenergy: Counting on Incentives Response. *Science* 327: 1200-2001.

Searchinger, T., S. Hamburg, J. Melillo, W. Chameides, P. Havlik, D. Kammen, G. Likens, M. Obersteiner, M. Oppenheimer, G. Robertson, W. Schlesinger, R. Lubowski, and D. Tilman. 2010. Carbon Calculations to Consider Response. *Science* 327:7 81.

Zavaleta, E.S., J. R. Pasari, K.B. Hulvey and D. Tilman. 2010. Sustaining multiple ecosystem functions in grassland communities requires higher biodiversity. *PNAS* 107: 1443-1446.

Stevens, C.J., and D. Tilman. 2010. Point source ammonia emissions are having a detrimental impact on prairie vegetation. *Water, Air and Soil Pollution* 211: 435-441.

- Tilman, D., R. Socolow, J.A. Foley, J. Hill, E. Larson, L. Lynd, S. Pacala, J. Reilly, T. Searchinger, C. Somerville and R. Williams. 2009. Steer Clear of Degraded Land response. *Science* 326:1345-1346.
- Clark, C.M. and D. Tilman. 2010. Recovery of plant diversity after cessation of N inputs: Effects of recruitment limitation, litter inhibition and elevated N cycling. *Ecology* 91: 3620-3630.
- Searchinger, T., S. Hamburg, J. Melillo, W. Chameides, P. Havlik, D. Kammen, G. Likens, R. Lubowski, M. Obersteiner, M. Oppenheimer, P. Robertson, W. Schlesinger, D. Tilman. 2009. Climate change: Fixing a critical climate accounting error. *Science* 326:527-528.
- Haddad, N., G. Crutsinger, K. Gross, J. Haarstad, J. Knops and D. Tilman. 2009. Plant species loss decreases arthropod diversity and shifts trophic structure. *Ecology Letters* 12:1028-1038
- Tilman, D., R. Socolow, J.A. Foley, J. Hill, E. Larson, L. Lynd, S. Pacala, J. Reilly, T. Searchinger, C. Somerville and R. Williams. 2009. Beneficial Biofuels—The Food, Energy, and Environment Trilemma. *Science* 325:270-271.
- Cadotte, M.W., J. Cavender-Bares, G.D. Tilman and T.H. Oakley. 2009. Using phylogenetic, functional and trait diversity to understand patterns of plant community productivity. *PLoS One* 4:e5695.
- Fargione, J.E., T.R. Cooper, D.J. Flaspohler, J. Hill, C. Lehman, T. McCoy, S. McLeod, E.J. Nelson, K.S. Oberhauser, and D. Tilman. 2009. Bioenergy and Wildlife: Threats and Opportunities for Grassland Conservation. *BioScience* 59:767-777.
- Clark, C.M., S.E. Hobbie, R. Venterea and D. Tilman. 2009. Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. *Global Change Biology* 15:1755-1766.
- Hille Ris Lambers, J., W.S. Harpole, S. Schnitzer, D. Tilman and P.B. Reich. 2009. CO<sub>2</sub>, nitrogen and diversity differentially affect seed production of prairie grasses. *Ecology* 90:1810-1820.
- Fornara, D.A., and D. Tilman. 2009. Ecological mechanisms associated with the positive diversity-productivity relationship: evidence from a long-term, N-limited grassland experiment. *Ecology* 90:408-418.
- Hill, J., S. Polasky, E. Nelson, D. Tilman, H. Huo, L. Ludwig, J. Neumann, H. Zheng, and D. Bonta. 2009. Climate change and health costs of air emissions from biofuels and gasoline. *PNAS* 106: 2077-2082.
- Cleland, E.E., C. Clark, S. Collins, J. Fargione, L. Gough, K. Gross, D. Milchunas, S. Pennings, W. Bowman, I. Burke, W. Lauenroth, G.P. Robertson, J. Simpson, D. Tilman and K. Suding. 2008. Species responses to nitrogen fertilization in herbaceous plant communities, and

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associated species traits. *Ecology* 89:1175.

Fornara, D.A., D. Tilman and S.E. Hobbie. 2008. Linkages between plant functional composition, fine root processes and potential soil N mineralization rates. *Journal of Ecology* 97:48-56.

Dybzinski, R., J.E. Fargione, D.R. Zak, D. Fornara and D. Tilman. 2008. Soil fertility increases with plant species diversity in a long-term biodiversity experiment. *Oecologia* 158:85-93.

Fargione, J., J. Hill, D. Tilman, S. Polasky, and P. Hawthorne. 2008. Biofuels: Effects on land and fire- Response. *Science* 321:199-200.

Fargione, J., J. Hill, D. Tilman, S. Polasky and P. Hawthorne. 2008. Land clearing and the biofuel carbon debt. *Science* 319: 1235-1238.

Clark, C.M. and D. Tilman. 2008. Loss of plant species after chronic low-level nitrogen deposition to prairie grasslands. *Nature* 451: 712-715.

Dybzinski, R. and D. Tilman. 2009. Mechanisms of plant competition and coexistence. Pages 186-195 in S. A. Levin, Ed., *Princeton Guide to Ecology*, Princeton University Press, Princeton, NJ.

Fornara, D. A. and D. Tilman. 2008. Plant functional composition influences rates of soil carbon and nitrogen accumulation. *Journal of Ecology* 96: 314–322.

Tilman, D., P.B. Reich and J. Knops. 2007. Ecology- Diversity and stability in plant communities- Reply. *Nature* 446:E7-E8.

Tilman, D. 2007. Resource competition and plant traits: a response to Craine *et al.* 2005. *Journal of Ecology* 95:231-234.

Tilman, D. J. Hill and D. Lehman. 2007. Response to comment on “Carbon-negative biofuels from low-input high-diversity grassland biomass.” *Science* 316:1567c.

Dybzinski, R. and D. Tilman. 2007. Resource use patterns predict long-term outcomes of plant competition for nutrients and light. *The American Naturalist*: 170:305-318.

Fargione, J., D. Tilman, R. Dybzinski, J. Hille Ris Lambers, C. Clark, W. S. Harpole, J. M. H. Knops, P. B. Reich and M. Loreau. 2007. From selection to complementarity: shifts in the causes of biodiversity-productivity relationships in a long-term biodiversity experiment. *Proceedings of The Royal Society B* 274:871-876.

Fridley, J. D., J. J. Stachowicz, S. Naeem, D. F. Sax, E. W. Seabloom, M. D. Smith, T. J. Stohlgren, D. Tilman and B. Von Holle. 2007. The invasion paradox: reconciling pattern and process in species invasions. *Ecology* 88:3-17.



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- Harpole, W. S. and D. Tilman. 2007. Grassland species loss resulting from reduced niche dimension. *Nature* 446:791-793.
- Tilman, D., J. Hill and C. Lehman. 2006. Carbon-negative biofuels from low-input high-diversity grassland biomass. *Science* 314:1598-1600.
- Tilman, D., P. B. Reich and J. M. H. Knops. 2006. Biodiversity and ecosystem stability in a decade-long grassland experiment. *Nature* 441:629-632.
- Díaz, S., J. Fargione, F. S. Chapin III. and D. Tilman. 2006. Biodiversity loss threatens human well-being. *PLoS Biology* 4:1300-1305.
- Fargione, J. and D. Tilman. 2006. Plant species traits and capacity for resource reduction predict yield and abundance under competition in nitrogen-limited grassland. *Functional Ecology* 20:533-540.
- Harpole, S. and D. Tilman. 2006. Non-neutral patterns of species abundance and species traits. *Ecology Letters* 9:15-23.
- Hill, J., E. Nelson, D. Tilman, S. Polasky and D. Tiffany. 2006. Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of the National Academy of Sciences* 103:11206-11210.
- Reich, P. B., S. E. Hobbie, T. Lee, D. S. Ellsworth, J. B. West, D. Tilman, J. M. H. Knops, S. Naeem and J. Trost. 2006. Nitrogen limitation constrains sustainability of ecosystem response to CO<sub>2</sub>. *Nature* 440:922-925.
- Waldrop, M. P., D. R. Zak, C. B. Blackwood, C. D. Curtis and D. Tilman. 2006. Resource availability controls fungal diversity across a plant diversity gradient. *Ecology Letters* 9:1127-1135.
- Wright, J. P., S. Naeem, A. Hector, C. Lehman, P. B. Reich, B. Schmid and D. Tilman. 2006. Conventional functional classification schemes underestimate the relationship with ecosystem functioning. *Ecology Letters* 9:111-120.
- Tilman, D. 2005. Biodiversity and ecosystem services: Does biodiversity loss matter? Pages 95-102 in, J.-P. Le Duc, Editor, *Proceedings of the International Conference: Biodiversity: Science and Governance*, January 24-28, 2005, Paris, France.
- Tilman, D. and S. Polasky. 2005. Ecosystem goods and services and their limits: The roles of biological diversity and management practices. Pages 78-97 in, R. D. Simpson, M. A. Toman and R. U. Ayres, eds., *Scarcity and Growth Revisited: Natural Resources and the Environment in the New Millennium*. RFF Press, Resources for the Future, Washington, DC.
- Tilman, D., S. Polasky and C. Lehman. 2005. Diversity, productivity and temporal stability in the

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- economies of humans and nature. *Journal of Environmental Economics and Management* 49:405-426.
- Chase, J. M., P. Amarasekare, K. Cottenie, A. Gonzalez, R. D. Holt, M. Holyoak, M. F. Hoopes, M. A. Leibold, M. Loreau, N. Mouquet, J. B. Shurin and D. Tilman. Competing theories for competitive metacommunities. 2005. Pages 335-354 in, M. Holyoak, M. A. Leibold and R. D. Holt, Eds., *Metacommunities: Spatial Dynamics and Ecological Communities*. The University of Chicago Press, Chicago and London.
- Diaz, S., D. Tilman, J. Fargione, F. S. Chapin III, R. Dirzo, T. Kitzberger, B. Gemmill, M. Zobel, M. Vilà, C. Mitchell, A. Wilby, G. C. Daily, M. Galetti, W. F. Laurance, J. Pretty, R. Naylor, A. Power, D. Harvell, S. Potts, C. Kremen, T. Griswold and C. Eardley. 2005. Biodiversity regulation of ecosystem services. Pages 297-329 in, R. Hassan, R. Scholes and N. Ash, eds. *Ecosystems And Human Well-Being: Current State And Trends, Volume 1*. Findings of the Condition and Trends Working Group of the Millennium Ecosystem Assessment Series. Island Press, Washington, D.C.
- Fargione, J. and D. Tilman. 2005. Niche differences in phenology and rooting depth promote coexistence with a dominant C<sub>4</sub> bunchgrass. *Oecologia* 143:598-606.
- Fargione, J. and D. Tilman. 2005. Diversity decreases invasion via both sampling and complementarity effects. *Ecology Letters* 8:604-611.
- Loreau, M., J. Roy and D. Tilman. 2005. Linking ecosystem and parasite ecology. Pages 13-21 in, F. Thomas, F. Renaud and J.-F. Guégan, eds., *Parasitism & Ecosystems*. Oxford University Press, Oxford.
- Stachowicz, J. J. and D. Tilman. 2005. Species invasions and the relationships between species diversity, community saturation, and ecosystem functioning. Pages 41-64 in, D. F. Sax, J. J. Stachowicz and S. D. Gaines, eds., *Species Invasions: Insights into Ecology, Evolution, and Biogeography*. Sinauer Associates Inc., Massachusetts.
- Tjoelker, M. G., J. M. Craine, D. Wedin, P. B. Reich and D. Tilman. 2005. Linking leaf and root trait syndromes among 39 grassland and savannah species. *New Phytologist* 167:493-508.
- Tilman, D. 2004. Niche tradeoffs, neutrality, and community structure: A stochastic theory of resource competition, invasion, and community assembly. *Proceedings of the National Academy of Sciences* 101:10854-10861.
- Tilman, D., J. Hille Ris Lambers, S. Harpole, R. Dybzinski, J. Fargione, C. Clark and C. Lehman. 2004. Does metabolic theory apply to community ecology? It's a matter of scale. *Ecology* 85:1797-1799.
- Fargione, J. and D. Tilman. July 2004, posting date. Effects of plant biodiversity on ecosystem productivity within a savannah grassland community. *Teaching Issues and Experiments in*

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[http://tiee.ecoed.net/vol/v2/issues/data\\_sets/cedar\\_creek/abstract.html](http://tiee.ecoed.net/vol/v2/issues/data_sets/cedar_creek/abstract.html).

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- Tilman, D. 1991. The schism between theory and ardent empiricism: a reply to Shipley and Peters. *American Naturalist* 138:1283-1286.
- Tilman, D. 1991. Relative growth rates and plant allocation patterns. *American Naturalist* 138:1269-1275.
- Tilman, D. and H. Olff. 1991. An experimental study of the effects of pH and nitrogen on grassland

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- Tilman, D. and D. Wedin. 1991b. Dynamics of nitrogen competition between successional grasses. *Ecology* 72: 1038-1049.
- Tilman, D. and D. Wedin. 1991c. Oscillations and chaos in the dynamics of a perennial grass. *Nature* 353: 653-655. (Highlighted in *The New York Times* and other media.)
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- Wilson, S.D. and D. Tilman. 1991. Components of plant competition along an experimental gradient of nitrogen availability. *Ecology* 72: 1050-1065.
- Tilman, D. 1990. Constraints and tradeoffs: toward a predictive theory of competition and succession. *Oikos* 58:3-15. (The Per Brink Ecology Lecture, Lund, Sweden)
- Tilman, D. 1990. Mechanisms of plant competition for nutrients: the elements of a predictive theory of competition. Pp. 117-141 in J. Grace and D. Tilman, Eds., Perspectives on Plant Competition, Academic Press, New York.
- Gleeson, S. and D. Tilman. 1990. Allocation and the transient dynamics of competition during succession on poor soils. *Ecology* 71:1144-1155.
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- Tilman, D. 1989. Ecological experimentation: strengths and conceptual problems. Pages 136-157 in G. E. Likens, Ed., Long-Term Studies in Ecology: Approaches and Alternatives. Springer-Verlag, 1989.
- Tilman, D. 1989. Competition, nutrient reduction, and the competitive neighborhood of a bunchgrass. *Functional Ecology* 3:215-219.

- Tilman, D. 1989. Discussion: Population dynamics and species interactions. Pp. 89-100 In J. Roughgarden, R.M. May and S. A. Levin, Eds., Perspectives in Ecological Theory. Princeton University Press.
- Tilman, D. and M. L. Cowan. 1989. Growth of old field herbs on a nitrogen gradient. Functional Ecology 3:425-438.
- Inouye, R. and D. Tilman. 1988. Convergence and divergence of old-field plant communities along experimental nitrogen gradients. Ecology 69:995-1004.
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- Tilman, D. 1987. Secondary succession and the pattern of plant dominance along experimental nitrogen gradients. Ecological Monographs 57:189-214.
- Tilman, D. 1987. The importance of the mechanisms of interspecific competition. American Naturalist 129:769-774.
- Tilman, D. 1987. Further thoughts on competition for essential resources. Theoretical Population Ecology. 32:442-446
- Inouye, R.S., N.J. Huntly and D. Tilman. 1987. Response of *Microtus pennsylvanicus* to vegetation fertilized with various nutrients, with particular emphasis on sodium and nitrogen concentration in plant tissues. Holarctic Ecology 10:110-113.
- Inouye, R., N. Huntly, D. Tilman and J. Tester. 1987. Pocket gophers, (*Geomys bursarius*), vegetation and soil nitrogen along a successional sere in east central Minnesota. Oecologia 72:178-184.
- Inouye, R., N. Huntly, D. Tilman, J. Tester, M. Stillwell, K. Zinnell. 1987. Old-field succession on a Minnesota sand plain. Ecology 68:12-26.
- Pastor, J., M.A. Stillwell and D. Tilman. 1987. Nitrogen mineralization and nitrification in four Minnesota old fields. Oecologia 71:481-485.
- Pastor, J., M.A. Stillwell and D. Tilman. 1987. Little bluestem litter dynamics in Minnesota old fields. Oecologia 72:327-330.
- Tilman, D. 1986. Resources, competition and the dynamics of plant communities. Pages 51-75, in M. Crawley, Ed., Plant Ecology, Blackwell Scientific Publications, Oxford, England.
- Tilman, D. 1986. Evolution and differentiation in terrestrial plant communities: the importance of the soil resource:light gradient. Pages 359-380 in T. Case and J. Diamond, Eds., Community Ecology, Harper and Row, New York.

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Tilman, D. 1986. A consumer-resource approach to community structure. *Amer. Zoologist* 26:5-22.

Tilman, D. 1986. Nitrogen-limited growth in plants from different successional stages. *Ecology* 67:555-563.

Tilman, D., R. Kiesling, R. Sterner, S. Kilham, F. Johnson. 1986. Green, bluegreen, and diatom algae: Taxonomic differences in competitive ability for phosphorus, silicon and nitrogen. *Arch. fur Hydrobiol.* 106: 473-485.

Tilman, D. 1985. The resource-ratio hypothesis of succession. *Amer. Natur.* 125:827-852.

Tilman, D. 1984. Plant dominance along an experimental nutrient gradient. *Ecology* 65:1445-1453.

Tilman, D. and R. Kiesling. 1984. Freshwater algal ecology: Taxonomic tradeoffs in the temperature dependence of nutrient competitive abilities. Pages 314-319 in M.J. Klug and C.A. Reddy, Eds., Current Perspectives in Microbial Ecology, Amer. Soc. Microbiol., Washington, D.C.

Tilman, D. and R.W. Sterner. 1984. Invasions of equilibria: Tests of theory of resource competition using two species of algae. *Oecologia (Berlin)* 61:197-200.

Tilman, D., S.S. Kilham and P. Kilham. 1984. A reply to Sell, Carney, and Fahnenstiel. *Ecology* 65:328-332.

Tilman, D. 1983. Plant succession and gopher disturbance along an experimental gradient. *Oecologia (Berlin)* 60:285-292.

Tilman, D. 1983. Some thoughts on resource competition and diversity in plant communities. In F. Kruger, D.T. Mitchell, and J.U.M. Jarvis, Eds., Mediterranean Type Ecosystems: The Role of Nutrients, pp. 322-336. Springer-Verlag: Ecological Studies, 43.

Tilman, D., W. Bond, B. Campbell, F. Kruger, H. Linder, A. Scholtz, H. Taylor and M. Witter. 1983. Origin and maintenance of plant species diversity. In J.A. Day, Editor, Mineral nutrients in mediterranean ecosystems, South African National Scientific Programs Report No. 71.

Tilman, D., S. Kilham and P. Kilham. 1982. Phytoplankton community ecology: the role of limiting nutrients. *Ann. Rev. Ecol. System.* 13:349-372.

Tilman, D. 1981. Tests of resource competition theory using four species of Lake Michigan algae. *Ecology* 62:802-815.

Tilman, D., M. Mattson and S. Langer. 1981. Competition and nutrient kinetics along a temperature gradient -- An experimental test of a mechanistic approach to niche theory. *Limnol. Oceanogr.* 26:1020-1033.

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- Tilman, D. 1980. Resources: A graphical-mechanistic approach to competition and predation. *Amer. Natur.* 116:362-393.
- Tilman, D. 1980. A review of "General Ecology" by S.J. McNaughton and L.L. Wolf. *Quarterly Review of Biology* 55:88-89.
- Kilham, P. and D. Tilman. 1979. The importance of resource competition and nutrient gradients for phytoplankton ecology. *Arch. Hydrobio. Beih. Ergebn. Limnol.* 13:110-119.
- Tilman, D. 1978. The role of nutrient competition in a predictive theory of phytoplankton population dynamics. *Mitt. Internat. Verein. Limnol.* 21:585-592.
- Tilman, D. 1978. Cherries, ants, and tent caterpillars: Timing of nectar production in relation to susceptibility of caterpillars to ant predation. *Ecology* 59:686-692
- Glesener, R. and D. Tilman. 1978. Sexuality and the components of environmental uncertainty: Clues from geographic parthenogenesis in terrestrial animals. *Amer. Natur.* 112:659-673.
- Tilman, D. 1977. Resource competition between planktonic algae: An experimental and theoretical approach. *Ecology* 58:338-348.
- Kilham, S.S., C. Kott and D. Tilman. 1977. Phosphate and silicate kinetics for the Lake Michigan diatom *Diatoma elongatum*. *J. Great Lakes Res.* 3:93-99.
- Tilman, D. 1976. Ecological competition between algae: Experimental confirmation of resource-based competition theory. *Science* 192:463-465. (Reprinted in Selected Papers in Phycology II, 1982).
- Tilman, D., and P. Kilham. 1976. Sinking in freshwater phytoplankton: Some ecological implications of cell nutrient status and physical mixing processes. *Limnol. Oceanogr.* 21:409-417.
- Tilman, D., and S.S. Kilham. 1976. Phosphate and silicate growth and uptake kinetics of the diatoms *Asterionella formosa* and *Cyclotella meneghiniana* in batch and semicontinuous culture. *J. Phycology* 12:375-383.
- Tilman, D., S.S. Kilham, and P. Kilham. 1976. Morphometric changes in *Asterionella formosa* colonies under phosphate and silicate limitation. *Limnol. Oceanogr.* 21:883-886.
- Kilham, P., and D. Tilman. 1976. Some biological effects of atmospheric inputs to lakes: Nutrient ratios and competitive interactions between phytoplankton. *J. Great Lakes Res.* 2:(Suppl. 1) 187-191.
- Tilman, D. 1975. A fluorometric technique for measuring sinking rates of freshwater phytoplankton. *Limnol. Oceanogr.* 20:689-875.



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Kilham, P. and D. Tilman. 1975. Some biological effects of atmospheric inputs to lakes: nutrient ratios and competitive interactions between phytoplankton. Pp. 187-191 in Proc. First Specialty Symposium on Atmospheric Contribution to the Chemistry of Lake Waters. Internat. Assoc. Great Lakes Res. Sept. 28-Oct. 1, 1975.

#### **ARTICLES IN POPULAR PRESS:**

Tilman, D. and J. Hill. 2007. Corn can't solve our problem. The Washington Post, March 25, 2007.

Hill, J. and D. Tilman. 2007. There's a new phrase that should be on the lips of all Minnesotans, and that phrase is ... Cellulosic Biomass! StarTribune, Minneapolis-St. Paul, Minnesota, March 18, 2007.

#### **RESEARCH GRANTS:**

##### **New Award**

2013-2018 LTER: Biodiversity, Multiple Drivers of Environmental Change and Ecosystem Functioning at the Prairie Forest Border (D. Tilman, S. Hobbie, E. Seabloom and others. NSF LTER, \$5,980,000 in total for 6 years)

##### **Current Awards**

2010-2013 Next-Generation Biofuels and the Ecosystem Services They Provide: Sustainability and the Biomass Production Landscape (J. Hill, S. Polasky, T. Twine, D. Tilman and L. Schulte-Moore). University of Minnesota IREE, \$592,000.

2010-2013 Understanding the Evolution of Cooperation Behavior of Plant-Symbionts in the Aim of the Ecological Intensification of Agriculture (P. Vandenkoornhuyse, T. Kiers, N. Johnson, C. Mony, M. Bormans, D. Tilman, R. O'Connell, A. Dufresne, A. Quaiser, O. Collin, D. Eveillard, and A.-H. Le Gall). Agence Nationale de la Recherche Programme STRA, €683,205.

2010-2013 Sustainable Biofuels (D. Tilman and J. Powers). LCCMR, \$221,000.

2011-2013 Prairie Management for Wildlife and Bioenergy—Phase II (C. Lehman, R. Moon, T. Arnold, D. Wyse and D. Tilman). LCCMR, \$600,000.

2011-2015 The Role of Diversified Bioenergy Cropping Systems in Enhancing Biological Control of the Soybean Aphid (G. Johnson, G. Heimpel, D. Wyse, B. Schaefer, P. Ragsdale and D. Tilman). USDA AFRI, \$992,999.

##### **Earlier Awards**

- Tilman 26
- 7/77-6/78 Nutrient Competition and Population Dynamics of Lake Michigan Phytoplankton. National Science Foundation, Ecology Section, \$35,000.
- 7/78-12/79 Nutrient Competition and Population Dynamics of Lake Michigan Phytoplankton. National Science Foundation, Ecology Section, \$28,961.
- 7/79-12/81 Nutrient Competition and the Population Dynamics of Phytoplankton. National Science Foundation, Ecology Section, \$61,200.
- 10/80-10/81 Nutrients, Productivity, and Algal Dominance in Lake Superior. Sea Grant, \$15,094.
- 10/81-9/83 Nutrients, Productivity, and Water Quality in Lake Superior: A Mechanistic Approach to an Oligotrophic Food Web. Sea Grant, \$51,000.
- 1/82-1/87 Long-Term Ecological Research: Micro and Macro Views of Succession, Productivity, and Dynamics in Temperate Ecosystems (D. Tilman, J.R. Tester). National Science Foundation, \$1,495,000.
- 5/83-5/84 Laboratory Addition for Cedar Creek Natural History Area. (D. Tilman, D. Parmelee & J.R. Tester). National Science Foundation, \$100,000.
- 5/83-8/83 Housing for Post-Doctoral Researchers at Cedar Creek Natural History Area (D. Tilman, D. Parmelee and J.R. Tester). Freshwater Foundation, \$25,000.
- 1/84-7/85 The "All-Scientists Meeting" of the Long-Term Ecological Research Network. National Science Foundation, \$32,740.
- 1/87-1/88 Teaching Software for Population Biology. IBM. (Project Woksape). (D. Alstad, K. Corbin, D. Tilman and J. Curtsinger). \$75,000.
- 1/87-1/89 Long-term Ecological Research: Succession, Productivity and Dynamics in Temperate Ecosystems in Minnesota (D. Tilman, D. Grigal). National Science Foundation, \$550,000.
- 1988-1992 Long-Term Ecological Studies at Minnesota (D. Tilman, E. Gorham and M. Davis). Andrew W. Mellon Foundation, \$445,000.
- 1988-1993 Competition and Plant Community Structure along Experimental Gradients of Disturbance & Nitrogen (D. Tilman, S.D. Wilson). National Science Foundation, \$229,740.
- 1989-1991 Trans-biome patterns in lifeform and ecosystem processes along North American productivity gradients. National Science Foundation, \$40,000.
- 1989-1994 Long-Term Ecological Research: Successional Dynamics and Spatial Patterning in

Tilman 27

- Ecosystems at the Prairie-Forest Border (D. Tilman, E. Gorham, D. Grigal, N. Huntly, R. Inouye). National Science Foundation, \$2,555,906.
- 1990-1993 Mechanisms of Plant-Herbivore Interactions. (M. Ritchie and D. Tilman) National Science Foundation, \$180,000.
- 1990-1993 Housing at Cedar Creek Natural History Area. (J. Tester and G.D. Tilman) National Science Foundation, \$42,500.
- 1991-1992 Software for Ecology and Evolution Curriculum (D. Alstad, P. Abrams, J. Curtsinger, D. Tilman). National Science Foundation, \$15,074.
- 1992-1994 Software for Curricula in Ecology & Evolution (D. Alstad, P. Abrams, J. Curtsinger, D. Tilman). National Science Foundation, \$43,851.
- 1992-1997 Long-Term Ecological Studies at Minnesota (D. Tilman, E. Gorham and M. Davis). Andrew W. Mellon Foundation, \$450,000.
- 1993-1995 Acquisition of a Nitrogen Analyzer (P. Morrow, D. Alstad, M. Davis, D. Tilman). National Science Foundation, \$20,176.
- 1993-1995 Dissertation Research: Mechanisms of Plant Succession in Coastal Lake Michigan Sand Dunes (D. Tilman and J. Lichter). National Science Foundation, \$6,028.
- 1994-1997 Minority Research Fellowship (D. Tilman, E. Gorham) Andrew W. Mellon Foundation, \$40,000.
- 1994-1995 Acid Deposition Monitoring Station - Cedar Creek Natural History Area (D. Tilman). Minnesota Pollution Control Agency, \$1,800.
- 1994-2000 Long-Term Ecological Research: Succession, Biodiversity and Ecosystem Functioning at the Prairie-Forest Border (D. Tilman, P. Reich, D. Wedin, R. Inouye, M. Ritchie, J. Knops). National Science Foundation, \$3,360,000.
- 1995-1996 Acid Deposition Monitoring Station - Cedar Creek Natural History Area (D. Tilman). Minnesota Pollution Control Agency, \$3,984.
- 1995-1997 Dissertation Research: Non-Equilibrium Competition and Coexistence: Experimental Tests of Mechanistic Models (D. Tilman and E. G. Litchman). National Science Foundation, \$5,500.
- 1995-1999 Preservation of biodiversity and ecosystem functioning (D. Tilman). Pew Scholars Program in Conservation and the Environment, \$150,000 (for E.S.A.'s "Ecological Issues").
- 1996-1997 Acid Deposition Monitoring Station - Cedar Creek Natural History Area (D. Tilman).

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- Minnesota Pollution Control Agency, \$2,880.
- 1996-1999 Interaction of Biodiversity, CO<sub>2</sub> and N on ecosystem functioning (P. Reich, D. Tilman, S. Naeem and J. Knops). U. S. Department of Energy, \$1,500,000.
- 1996-2001 Biodiversity and the Productivity, Stability and Sustainability of Prairie Ecosystems (D. Tilman, P. Reich and J. Knops). National Science Foundation, \$507,000.
- 1997-1998 Acid Deposition Monitoring Station - Cedar Creek Natural History Area (D. Tilman). Minnesota Pollution Control Agency, \$1,800.
- 1997-2001 Summer Interns to Study Biodiversity and Ecosystem Functioning at Cedar Creek Natural History Area, Minnesota (D. Tilman). The Andrew W. Mellon Foundation, \$55,000.
- 1997-2001 Controls of Ecosystem Invasibility and Assembly: A Collaborative Cross-Site Project (D. Tilman). The Andrew W. Mellon Foundation, \$275,000.
- 1997-2000 A US-UK-Japan cooperative research on the relationship between biodiversity and ecological complexity (S. Levin, D. Rubenstein, S. Hubbell, S. Pacala, D. Tilman and H. Mooney). National Science Foundation, \$255,075.
- 1997-2002 Can Insect Herbivory Control Grassland Composition, Productivity and Dynamics: an alternative View (W. Carson, D. Tilman and P. Morrow). National Science Foundation, \$373,910.
- 1998-1999 Plant pathogens in natural systems agriculture (D. Tilman and C. Mitchell). The Land Institute, \$6,000.
- 1999-2003 Biodiversity, CO<sub>2</sub> and N effects on ecosystem functioning (P. Reich, D. Tilman, D. Ellsworth, S. Naeem, D. Wedin and J. Knops). U. S. Department of Energy, \$1,596,256.
- 2000-2006 Long-Term Ecological Research: Biodiversity, Disturbance and Ecosystem Functioning at the Prairie-Forest Border (D. Tilman, P. Reich, and S. Hobbie). National Science Foundation, \$4,200,000.
- 2002-2005 Minority Undergraduate Summer Interns to Study Ecosystem Ecology. (D. Tilman). The Andrew W. Mellon Foundation, \$80,000.
- 2003-2009 Biocomplexity: interacting responses of C and N cycles to altered biodiversity, elevated CO<sub>2</sub>, and N enrichment (P. Reich, S. Hobbie, D. Tilman). National Science Foundation, \$1,800,000.
- 2004-2006 The University of Minnesota's Ecosystem Science and Sustainability Initiative (A.

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- Kapuscinski, P. Reich, D. Tilman). The Bush Foundation, \$300,000.
- 2004-2007 Cedar Creek Natural History Area Science and Outreach Facility (D. Tilman, C. Lehman). National Science Foundation, \$285,000.
- 2004-2005 Prairie Maze: A Demonstration Project on Renewable Energy and the Environment (D. Tilman, P. Hamilton). University of Minnesota Initiative for Renewable Energy and the Environment (IREE), \$120,000.
- 2004-2005 Full Cost Accounting of Renewable Energy Systems (D. Tilman, S. Polasky). University of Minnesota Initiative for Renewable Energy and the Environment (IREE), \$38,506.
- 2005-2006 Dissertation Research: Why plant communities shift after chronic nitrogen addition: The organic connection (D. Tilman and C. Clark). National Science Foundation, \$11,808.
- 2005-2006 Science and Interpretive Center at Cedar Creek Natural History Area (D. Tilman). Great River Energy, \$50,000.
- 2005-2006. Matching Funds for Demonstration of Renewable Energy and Energy Efficient Building Design (D. Tilman). University of Minnesota Initiative for Renewable Energy and the Environment (IREE), \$100,000.
- 2005-2007 Cedar Creek Savanna and Prairie Restoration and Interpretation (D. Tilman). Legislative Commission on Minnesota Resources, \$400,000.
- 2005-2009 Minority Undergraduate Summer Interns to Study Ecosystem Ecology (D. Tilman). The Andrew W. Mellon Foundation, \$80,000.
- 2005-2008 Full Cost Accounting of Renewable and Conventional Energy Sources (D. Tilman, S. Polasky, V. Eidman, F. Kulacki, J. Kuzma, D. Tiffany). University of Minnesota Initiative for Renewable Energy and the Environment (IREE), \$673,995.
- 2006-2008 The University of Minnesota's Ecosystem Science and Sustainability Initiative (A. Kapuscinski, P. Reich, D. Tilman). Bush Foundation, \$600,000.
- 2006-2012 Biodiversity, Environmental Change and Ecosystem Functioning at the Prairie-forest Border. (D. Tilman, P. Reich, S. Hobbie, S. Polasky, J. Cavender-Bares, J. King, L. Kinkel, J. Knops, R. Montgomery, H. Muller-Landau, J. Powers) National Science Foundation – LTER, \$4,920,000.
- 2007 Cedar Creek Natural History Area Research & Outreach Building Project (D. Tilman). MN Department of Commerce, \$25,000.

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- 2007-2010 Cedar Creek Groundwater Project Using Prairie Biofuel Buffers (C. Lehman, D. Tilman, J. Nieber, J. Stark, G. Delin, K. Lee). LCCMR, \$660,000.
- 2007-2010 Cedar Creek Groundwater Project Using Prairie Biofuel Buffers (C. Lehman, D. Tilman, J. Nieber, J. Stark, G. Delin, K. Lee). USGS, \$410,000.
- 2008-2011 Biofuel Production and Wildlife Conservation in Working Prairies (C. Lehman, D. Tilman, K. Oberhauser, D. Wyse). LCCMR, \$500,000.
- 2009-2011 Habitat Restoration in Working Prairies (C. Lehman, D. Tilman, K. Oberhauser, D. Wyse, T. Arnold). NFWF, \$300,000.
- 2009-2011 Air Pollution Impacts of Conventional and Alternative Fuels: A Spatial and Temporal Life Cycle Analysis Decision Support Tool (J. Marshall, J. Hill, D. Tilman, S. Polasky, S. Suh). University of Minnesota IREE, \$600,000.

#### **INVITED TALKS AND SEMINARS:**

2012

Plant Science Center PhD Symposium, ETH Zurich. Talk titled: "The Bioenergy, Food and Environment Trilemma" Nov 2012

Bicentennial Symposium, Academy of Natural Sciences of Drexel University, Philadelphia, PA. Talk titled: "Biodiversity: Its Evolutionary Causes and Ecosystem Impacts" Oct 2012

Baker Center Interdisciplinary Forum on Environmental Policy, University of Tennessee, Knoxville TN. Talk titled: "Food, Biofuels, and the Environment: the Search for Sustainability" Oct 2012

Rackham Centennial Alumni Lecture, University of Michigan, Ann Arbor, MI. Talk titled: "Biodiversity: From Evolutionary Origins to Ecosystem Functioning" Oct 2012.

Gordon Research Conference, Les Diablerets, Switzerland. Talk titled: "Forecasting Future Food Demand and its Global Environmental Impact" June 2012

1975 Department of Zoology, University of Maryland.

1976 Department of Ecology and Behavioral Biology, Univ. of Minnesota.

Department of Biology, University of California, Santa Barbara.

Ecology Program, University of California, Davis.

1977 Association of Minnesota Entomologists.

Academy of Natural Sciences, Philadelphia.

1978 Department of Biology, University of Ottawa.

Department of Mathematics, University of Minnesota.

1979 Biology Department, Princeton University.

Division of Biological Sciences, University of Michigan.

Kellogg Biological Station, Michigan State University.

Department of Water Chemistry, University of Wisconsin.

Department of Zoology, University of Iowa.

1980 Department of Zoology, University of Wisconsin, Madison.

1981 Department of Ecology and Evolution, Univ. of California, Irvine.

Department of Botany and Microbiology, Arizona State Univ., Tempe.

Department of Zoology, University of Maryland, College Park.

1982 Department of Biology, University of Utah, Salt Lake City.

Department of Biology, Univ. of Pennsylvania, Philadelphia.

Department of Ecology, Northwestern University, Evanston, IL.

1983 Kellogg Biological Station, Michigan State Univ., Hickory Corners.

School of Life Sciences, University of Nebraska, Lincoln.

Botany Department, University of Minnesota, Minneapolis.

Ecology and Systematics, Cornell University, Ithaca.

Ecology Graduate Program, University of California, Davis.

Biology Department, Kansas State University, Manhattan, KS.

Department of Zoology and Entomology, Colorado State University, Fort Collins.

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Organization of Biological Field Stations, Niwot Ridge, Colorado.

1984 Department of Ecology and Evolutionary Biology, The University of Arizona, Tucson, AZ.

Department of Biological Sciences, Princeton University.

Institute of Ecosystem Studies, Cary Arboretum, Millbrook, NY.

Unit of Plant Population Biology, University College of North Wales, Bangor, Wales.  
Unit of Comparative Plant Ecology, University of Sheffield, England.

1985 Department of Biology, Utah State University, Logan, UT.

Department of Biology, University of North Carolina, Chapel Hill.

1986 Botany Department, Iowa State University.

Department of Biology, McGill University, Montreal, Quebec, Canada.

Department of Biology, University of Michigan, Ann Arbor, MI.

1987 Department of Biology, Stanford University, Palo Alto, CA.

Botany Department, University of British Columbia, Vancouver, B.C.

Ecology and Systematics, Cornell University, Ithaca, NY (invited and hosted by the graduate students)

The Institute for Ecosystem Studies, Cary Arboretum, NY.

1988 Ecology Department, Umea University, Umea, Sweden.

Department of Ecology, Lund University, Lund, Sweden.

Department of Biological Services, Bowling Green State University.

Department of Biology, University of Minnesota at Duluth.

Kellogg Biological Station, Michigan State University.

Department of Biology, Idaho State University.

Department of Environmental Sciences, University of Virginia.



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Department of Ecology and Evolution, University of Connecticut.

1989 Department of Biology, University of Utah (invited and hosted by the Ecology graduate students)

First International Monod Conference on Evolutionary Ecology, Roscoff, France.

1990 Department of Biology, Rice University, Texas.

Department of Ecology, University of California, Santa Barbara.

CABO in Wageningen, The Netherlands.

University of Groningen, The Netherlands.

University College of London at Silwood Park, England.

Department of Ecology and Evolution, State University of New York, Stony Brook.

Department of Botany and Plant Biology Graduate Group, University of California, Davis.

1991 Department of Biology, Colorado State University, Fort Collins. (Distinguished Visiting Ecologist Series)

Department of Botany, University of Rhode Island, Kingston.

Program in Applied Mathematics, Cornell University.

Department of Biology, State University of NY, Syracuse.

Centre for Population Biology, Imperial College, Silwood Park, England.

Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France.

Laboratoire d' Ecologie, Ecole Normale Supérieure, Paris, France.

Department of Ecology and Evolution, University of Chicago

Department of Biological Sciences, University of Illinois at Chicago.

International Conference on Biodiversity and Ecosystem Function, Bayreuth, Germany.

Conference on Role of Population Biology in Study of Global Change, Friday Harbor,

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WA

- 1992 Department of Biology, Imperial College at Silwood Park, Ascot, United Kingdom.  
Department of Biology, Yale University, New Haven, Connecticut.
- 1993 Department of Biology, University of New Mexico, Albuquerque.  
Rothamsted Experimental Station, Harpenden Hertfordshire, England.  
Gordon Conference on Biological Oceanography, New Hampshire.
- 1994 Department of Ecology, Evolution and Behavior, University of Minnesota.  
Department of Biology, University of Princeton, Princeton, NJ.  
School of Biological Sciences, University of Sussex, Falmer, Brighton, U.K.  
Department of Biology, Ecology Section, Imperial College at Silwood Park, Ascot, Berks, U.K.  
Department of Agronomy and Plant Genetics, University of Minnesota.  
Forest Ecosystem Studies Research Group, Department of Botany, and College of Forest Resources, University of Washington.
- 1995 Minnesota House of Representatives, Environment and Natural Resources Committee.  
Minnesota Democratic Party Higher Education Caucus.  
Minnesota Republican Caucus on Higher Education.  
Department of Zoology, North Carolina State University.  
Botany Department, University of Georgia.  
Keynote Speaker, Annual Meeting of the Soil Ecology Society, Colorado State University, Fort Collins, CO.  
Department of Environmental Technology and Services, 3M, St. Paul, MN  
Keynote Speaker, 90th Annual Meeting, South Dakota Academy of Science, Dakota Wesleyan University, Mitchell, South Dakota.  
Department of Integrative Biology, University of California, Berkeley.

Biology Department, Stanford University.

Botany Seminar Series, Michigan State University.

Biology Department , St. Johns University, Collegeville, MN

Environmental Policy and Economics Group, Stanford University

Institute of International Studies, Stanford University

1996 Department of Biology, University of California, Santa Barbara.

Department of Ecology and Evolutionary Biology, Princeton University

Ecology and Evolution series, Division of Environmental Studies, University of California, Davis (two seminars).

Smithsonian Institution and Resources for the Future: Ecology and Economics Seminar Series, Washington, D.C.

United Nations Environment Programme, Annapolis, Maryland.

Department of Zoology, Arizona State University.

Department of Biology, Carleton College, Northfield, Minnesota.

Department of Soil, Water, and Climate, University of Minnesota

Biology Colloquium, University of Minnesota

University of Southern California

1997 Minnesota State Legislature

U.S. Global Change Research Program Seminar Series, Washington, D.C.

Department of Biology, University of Missouri-St. Louis

Distinguished Speaker, Jane and Whitney Harris Lecture Series, Missouri Botanical Garden, University of Missouri-St. Louis

“Ecology Summit,” Yale University, New Haven, Connecticut

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Cary Conference, Millbrook, New York

Joint Diversitas-GCTE-TERI Workshop, Silwood Park, U.K.

The Royal Society/The Ciba Foundation, London, UK

MacArthur Award Lecture, ESA Annual Meeting, Santa Fe, New Mexico

Yale University, New Haven, CT.

1998

Ecology Program, Yale University, New Haven Connecticut

Plant Biology Graduate Group, University of California, Davis

Williams College, Williamstown, Massachusetts

6<sup>th</sup> Askö Meeting on Ecological Economics, Beijer Institute, Stockholm, Sweden

NAS Colloquium: Plants and Population - Is There Time? Irvine, CA.

Geography Department, University of Minnesota

1999

Department of Biological Sciences, Florida International University, Miami, Florida

Biology Department, University of Miami, Florida

Department of Biology, University of California, San Diego

Henry J. Oosting Memorial Lecture in Ecology, Department of Botany, Duke University, Durham, North Carolina

Institute for Mathematics and its Applications Workshop, University of Minnesota, Minneapolis

Boyce Thompson Institute for Plant Research, Inc., Ithaca, New York

IX Congress on the Italian Society of Ecology, Lecce, Italy

Indiana University, Indianapolis, Indiana

2000

SCOPE headquarters, Paris, France

BES&ESA Joint Meeting, Orlando, Florida

National Academy of Sciences Colloquium, Arnold & Mabel Beckman Center, Irvine,

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California

Rice University, Houston, Texas

Department of Botany, University of Florida, Gainesville

Ecology Center, Utah State University, Logan

Symposium at the Humphrey Center, University of Minnesota

Carnegie-Mellon University, Phipps Conservatory, and University of Pittsburgh, Pittsburgh

Silwood Tripartite Meeting, Center for Population Biology, Imperial College, Silwood Park, UK

St. Olaf College, Northfield, MN

Biology of Populations group, Department of Ecology and Evolutionary Biology, Princeton University, New Jersey

Institute for Advanced Study, Princeton, NJ

Department of Biology, University of Pennsylvania

Center for Population Biology, Imperial College, Silwood Park, UK

Conference on Biodiversity and Ecosystem Functioning, Sorbonne, Paris

2001 National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara

University of California, Santa Barbara, Dept. of Ecology, Evolution and Marine Biology

University of California, Bren School of the Environment, Santa Barbara

Princeton University, Princeton, New Jersey

Stanford University's Holm-Thomas Lecture

2002 St. Anthony Falls Hydrologic Laboratory, University of Minnesota

University of California, Davis

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McKnight Presidential Chair in Ecology Address, Bell Museum of Natural History,  
University of Minnesota

International Symposium on “Integrative Biology and Complexity in Natural  
Systems,” International Union of Biological Sciences, Paris, France

Sapporo, Japan

Montpellier, France

Freshman Convocation, University of Minnesota

University of Amsterdam, The Netherlands

University of Groningen, The Netherlands

Resources for the Future, Washington, DC

2003 50<sup>th</sup> Anniversary of the Ecological Society of Japan, Tsukuba City, Japan

Keynote Address, Stengl Symposium, University of Texas, Austin

Environmental Science Institute, University of Texas, Austin

University of Mississippi

Universite de Neuchatel, Switzerland

Sante Fe Institute, New Mexico

Joint Degree Program, University of Minnesota

Norwegian Research and Technology Forum, McNamara Alumni Center, University  
of Minnesota

American Museum of Natural History, Washington, DC

Minnesota’s Renewable Energy Research: Status and Opportunities Conference, St.  
Paul, Minnesota

2004 Earth System Initiative Symposium, Massachusetts Institute of Technology.

“Great Conversations” with Jared Diamond, University of Minnesota

“How to Succeed in Ecology: Advice from Current and Aspiring Eminent Ecologists,”

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Ecological Society of America Annual Meeting, Portland, Oregon

Department of Plant Sciences, Michigan State University, East Lansing, Michigan

Linking Community and Ecosystem Ecology (LINKECOL) Conference, Palma de Mallorca, Spain

School of Forestry, Northern Arizona University

2005

Workshop on Spatial Ecology: The Interplay between Theory and Data, University of Miami.

International Conference on “Biodiversity: Science and Governance,” Paris, France (Organized at the request of and attended by Jacques Chirac, President of France)

Biology and Management of Invasive Species, CB 8001, University of Minnesota

Biology Department, University of Texas, Arlington.

Keynote Address for 30<sup>th</sup> Anniversary of Environmental Studies at Nolan Catholic High School, Dallas, Texas.

Department of Plant Science, University of Georgia, Athens.

“Biocomplexity Conference,” Santa Fe Institute, New Mexico.

Two talks at the Alpine Summer School, Course XIII on “Water-Vegetation Interactions and Biodiversity in Changing Environments,” Valsavarenche, Gran Paradiso National Park, Valle d’Aosta, Italy.

Smithsonian Tropical Research Institute, Panama.

2006

Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara.

Symposium on “Theoretical Ecology,” in honor of Lord Robert May, Oxford University.

“Princeton Environmental Institute-Princeton University Press Environmental Prize Lecture Series,” three lectures, Princeton University.

“Conversations on Sustainability: Global Change, Energy Use and Solutions for the Future,” with W. Steger, E. Wilson and J. Carmody, at the Bell Museum of Natural History, University of Minnesota.

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Keynote address, Annual Minnesota Nature Conservancy Meeting, Bullard Rainforest Auditorium, Como Park, St. Paul, MN.

“Long-term studies in Ecology: a Celebration of 150 Years of the Park Grass Experiment,” Rothamsted Research, England.

Bush Foundation Journalist Workshop, University of Minnesota, Minneapolis, MN.

Department of Natural Resources, St. Paul, Minnesota.

Norwegian Biofuels Study Tour, University of Minnesota, St. Paul, Minnesota.

2006 Whitney and Anna Harris Conservation Forum, University of Missouri-St. Louis, Missouri.

*Minnesota Water 2006 and Annual Water Resources Joint Conference*, Water Resources Center, University of Minnesota, Brooklyn Center, Minnesota.

Department of Evolution, Ecology and Organismal Biology, The Ohio State University, Columbus, Ohio.

IREE's Third Annual Research Symposium, University of Minnesota, McNamara Alumni Center, Minneapolis, Minnesota.

Symposium on biofuels and nature, The Nature Conservancy, Washington, D.C.

2007 Headliners Series, College of Continuing Education, University of Minnesota.

Department of Mechanical Engineering, University of Minnesota.

Public symposium, “Pathways toward a Renewable Energy Future: Environmental Sustainability through Technology and Policy.” Initiative for Renewable Energy and the Environment, University of Minnesota, St. Paul, Minnesota.

Sustainable Biofuels section of the Carbon Mitigation Initiative, Sixth Annual Meeting, Princeton University, Princeton, New Jersey.

Department of Geology and Geophysics, Texas A&M University, College Station, Texas.

Division on Earth and Life Studies Committee, The National Academies, Washington, DC.

Midwest Journalism Conference, Bloomington, Minnesota.



Conversations on Sustainability Series, Ecosystem Science and Sustainability Initiative, University of Minnesota.

Third Annual Eco Education Earth Dinner, St. Paul, Minnesota.

Biodiversity, Ecology, and Global Change Lecture Series Inaugural Event, Harvard University Center for the Environment and Department of Organismic and Evolutionary Biology, Cambridge, MA.

Workshop on “Future Implications of a Global Biofuel Market on Economic Development, Environment and Trade,” John F. Kennedy School, Harvard University, Cambridge, Massachusetts.

Great River Energy Annual Meeting, Hinckley, Minnesota.

College of Resources and Environmental Sciences, China Agricultural University, Beijing, China.

Keynote speaker at the Joint Congress of AIOL and SItE, Ancona, Italy.

National Center for Ecological Analysis and Synthesis, “Community Saturation” working group, Santa Barbara, CA.

McKnight Foundation Board of Directors meeting.

Winter Cedar Creek Science meeting.

Princeton University Biofuels Group Lunch talk.

Princeton Carbon Capture Group Lunch talk.

Brown University, Public talk, “Do Biofuels Make Sense? Their impacts on Food, Energy and the Environment”, Providence, RI.

2008 San Diego Biofuels Symposium, San Diego, CA. Talk titled: “Ecological impacts of a global biomass revolution.” January 2008

Invited Talk to the Board of Directors, National Resource Defense Council, San Francisco, CA. Talk titled: “From corn to prairie grasses to rainforests: Impacts of biofuels on biodiversity, greenhouse gasses, water and energy.” February 2008

Food for Thought Lecture Series, Oregon State University. Talks titled: “Getting Biofuels Right: A solution to the biofuel vs food and environment dilemma” and “Sustainable Production of Food and Biofuels: Carbon and land constraints.” February 2008

International Biomass Convention and Trade Show, Opening Address, Minneapolis. Talk titled: “Biofuels, Sustainability and Carbon: Getting it Right.” April 2008

Princeton Environmental Institute Conference—Environmental and Societal Costs, Benefits and Ethics of Biofuels and Food, Princeton University, NJ. Talk titled: “The Food-Fuel-Environment Dilemma—An Overview.” June 2008

Aspen Ideas Festival, The Aspen Institute, CO. Talks titled: “Food, Fuel and Forests” and “What Do We Do About Our Forests?” July 2008

The Red Queen Hypothesis Round Table Symposium, Oslo, Norway. Talk titled: “The Coexistence Paradox.” August 2008

Growing the Bioeconomy Conference, Iowa State University. Talk titled: “Why the United States Biofuels Industry Will Transition to Polycultures and Perennials” September 2008

The Future of Science—Fourth World Conference, Venice, Italy. Talk titled: “Agricultural Expansion and Environmental Sustainability.” September 2008

Keynote Talk, University of Wisconsin Ecology Symposium, Madison, WI. Talk titled: “Competition, Speciation and Invasion: The Universal Competitive Tradeoff Hypothesis of Biodiversity.” October 2008

Public talk, University of Wisconsin, Madison. Talk titled: “Solving the Food vs Fuel vs Environment Dilemma.” October 2008.

Quaternary Paleoecology Seminar, University of Minnesota. Talk titled: “Coexistence Paradox and the Universal Tradeoff Hypothesis.” October 2008

Science Advisory Board Meeting, Environmental Protection Agency, Washington DC. Talk titled: “Lifecycle Environmental and Health Costs and Benefits of Fossil and renewable Fuels.” November 2008

Nature of Life Lecture, Vrije Universiteit Amsterdam, The Netherlands. Talk titled: “Competition, Speciation and Invasion: The Universal Competitive Tradeoff Hypothesis of Biodiversity.” November 2008

Invited Public Lecture, The American Embassy, Tokyo, Japan. Talk titled: “The Food, Energy and Environment Dilemma,” December 2008.

Ecology for the Changing World Memorial Symposium, Sendai, Japan. Talk titled: “The causes, consequences and conservation of biodiversity.” December 2008

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2009

Graduate Seminar, Florida International University, Miami. Talk titled: “Competitive Coexistence and the Evolutionarily Universal Trade-off Surface.” January 2009

Keynote Address, University of Minnesota Minne-College, Naples, FL. Talk titled: “Solving the Dilemma: food, biofuel and the environment.” January 2009

Presentation, Princeton Ecology Institute Conference—Feeding a Hot and Hungry Planet: The Challenge of Making More Food and Fewer Greenhouse Gases, Princeton, NJ. Talk titled: “Understanding the Challenges of Feeding a Hot and Hungry Planet.” April 2009

Graduate Seminar, Centre for Population Biology Seminar, Imperial College London, Silwood Park, UK. Talk titled: “The causes, consequences, and conservation of biodiversity.” May 2009

Public Lectures, Aspen Ideas Festival, The Aspen Institute, CO. Talks titled: “Investing in Noah’s Ark” and “Billions to be Served: Meeting the Needs of People and the Planet” July 2009

Graduate Seminar, Michigan State University, Lansing. Talk titled: “Biodiversity: From Evolutionary Origins to Ecosystem Functioning” September 2009

Graduate Seminar, Kellogg Biological Station. “Food, Energy and the Environment: The Next 50 Years.” September 2009

Keynote Address, Norwegian Transatlantic Science Week, Minneapolis. Talk titled: “Collaborating for the Survival of Life and the Environment on Our Planet.” September 2009

Public Talk, Frontiers in the Environment Lecture Series, Institute on the Environment, Saint Paul. Talk titled: “Food, Energy and Global Climate: Solving the Trilemma.” October 2009

Graduate Seminar, Department of Ecology, Evolution and Behavior, University of Minnesota, Saint Paul. Talk titled: “Competitive Coexistence and the Evolutionarily Universal Tradeoff Surface Hypothesis.” November 2009

Panel Chair, American Academy Workshop on the Risks and Benefits of Emerging Energy Technologies, Cambridge, MA. Talk titled: “Public attitudes toward New Energy Technologies.” December 2009

Presentation, US-UK Sackler Scientific Forum—Advancing Agriculture: How can crop science and technology contribute to feeding nine billion people? The Royal Society, London, UK. “Global Food Demand and Environmental Sustainability.” December 2009

- 2010 American Association of University Women, Minneapolis. Talk titled: “Food, Biofuels and Environmental Sustainability.” January 2010
- InterAcademy Panel on Biodiversity, The Royal Society, London UK. January 2010
- Imagine Solutions Conference 2010, Naples, FL. Talk titled: “Feeding the World While Sustaining the Earth.” February 2010
- Sustainable Conservation: Bridging the Gap Between Disciplines, Trondheim, Norway. Talk titled: “Conserving biodiversity and its benefits: threats from agricultural intensification.” March 2010
- Departmental Seminar (Ecology and Evolutionary Biology), Princeton University, Princeton, New Jersey. Talk titled: “Biodiversity and Agricultural Land Demand: Can We Feed the World and Save the Earth?” May 2010
- Gustavus Adolphus Earth Week, Saint Peter, MN. Talk titled: “Can we feed the world and save the Earth?” May 2010
- Global Sustainable Bioenergy – North American Convention, Minneapolis, MN. Talk titled: “Meeting future food demand” Sept 2010
- Wageningen University, The Netherlands. Talk titled: “Biodiversity and ecosystem functioning: Experimental tests and theoretical implications” Sept 2010
- Symposium Biodiversity: The Decennium Assessment, The Netherlands. Keynote address: “Biodiversity and ecosystem functioning: Experimental tests and theoretical implications” Sept 2010
- Global Land Project Open Science Meeting, Tempe, AZ. Plenary talk titled: “Agriculture, land use change and greenhouse gas emissions” Oct 2010
- IREE E3 Conference, Minneapolis, MN. Talk titled: “Carbon negative feedstocks” Nov 2010
- International Conference on Science and Technology for Sustainability, Kanazawa, Japan. Talk titled: “The use of biodiversity” Dec 2010
- 2011 Bren School, University of California Santa Barbara. Community colloquium titled: “Food, energy and the environment: Can we feed the world and save the Earth?” Jan 2011
- The World Foresight Forum Convention, The Hague, Netherlands. Talks titled: “Energy security and rising demand” and “Food production in a more sustainable

world.” April 2011

Departmental Seminar, Drexel University, Philadelphia, PA. Talk titled: “Biodiversity: From evolutionary origins to ecosystem functioning.” May 2011

Grasslands in Global Context Symposium, Konza Prairie Biological Station, KS. Talk titled “How important is biodiversity? A comparison of multiple factors that can influence ecosystem functioning” Sept 2011

Sustainability Science Distributed Graduate Seminar between AZ State, Florida International, Harvard, Princeton, UNAM and U of MN. Telecast talk and discussion titled “Feeding 9 billion people while sustaining Earth’s life support systems.” Nov 2011

Aris Engineering Seminar, University of Minnesota, Minneapolis, MN. Talk titled “Can we feed the world and save the Earth?” Dec 2011

#### **GRADUATE AND POST-DOCTORAL STUDENTS ADVISED:**

##### ***Post-Doctoral***

- Richard Inouye, 1982-1986 (Professor, Idaho State University)
- Nancy Huntly, 1982-1986 (Professor, Idaho State University)
- Mark Stillwell, 1982-1984 (Agricultural Extension, Oregon)
- John Pastor, 1985-1986 (Professor, University of Minnesota Duluth)
- Don Zak, 1986-1988 (Professor, University of Michigan)
- Scott Gleeson, 1986-1988 (Professor, University of Kentucky)
- Scott Wilson, 1987-1988 (Professor, University of Regina)
- Mark Ritchie, 1989-1990 (Professor, Syracuse University)
- Mark McGinley, 1989-1991 (Associate Professor, Texas Tech University)
- Don Faber-Langendoen, 1990-1992 (Adjunct Assistant Professor, SUNY-ESF)
- Kaoru Kitajima, 1992-1994 (Associate Professor, University of Florida)
- Walter Carson, 1992-1994 (Associate Professor, University of Pittsburgh)
- Johannes Knops, 1995-1999 (Associate Professor, University of Nebraska, Lincoln)
- Bryan Foster, 1997-1999 (Associate Professor, University of Kansas)
- Nick Haddad, 1997-1999 (Professor, North Carolina State University)
- Cynthia Brown, 1999-2002 (Assistant Professor, Colorado State University)
- Janneke Hille Ris Lambers, 2001-2004 (Assistant Professor, University of Washington)
- Jason Hill, 2006-2009 (Assistant Professor, University of Minnesota)
- Clarence Lehman, 2006 (Adjunct Professor, University of Minnesota)
- Dario Fornara, 2006-2008 (Lecturer in Terrestrial Ecology, University of Ulster)
- Joseph Fargione, 2006-2007 (North American Region Lead Scientist, The Nature Conservancy)
- Kate Brauman, 2010-2011 (Co-advised with Jon Foley and Stephen Polasky)
- Kevin Mueller, 2010-2012 (Co-advised with Sarah Hobbie)
- Forest Isbell, 2011-2012 (Co-advised with Stephen Polasky)

- Seth Binder, 2011-2012 (Co-advised with Stephen Polasky)

***Doctoral*** (Major Advisor)

- Val H. Smith, Ph.D. 1982 (Professor, University of Kansas)
- Robert Sterner, Ph.D. 1986 (Professor, University of Minnesota)
- James Grover, Ph.D. 1988 (Professor, University of Texas at Arlington)
- David Wedin, Ph.D. 1990 (Professor, University of Nebraska, Lincoln)
- Nancy Collins Johnson, Ph.D. 1991 (Professor,, Northern Arizona University)
- Gordon Brown, Ph.D. 1992 (Associate Professor,, St. John's University)
- John Lichter, Ph.D. 1995 (Associate Professor, Bowdoin College)
- Tania Vincent, Ph.D. 1996
- Evan Siemann, Ph.D. 1997 (Professor, Rice University)
- Amy Symstad, Ph.D. 1998 (Research Ecologist, Northern Prairie Wildlife Research Center, U.S. Geological Survey)
- Elena Litchman, Ph.D. 1997 (Associate Professor, Michigan State University)
- Clarence Lehman, Ph.D. 2000 (Adjunct Faculty Member, University of Minnesota)
- Chris Klausmeier, Ph.D. 2000. (Associate Professor, Michigan State University)
- Charles Mitchell, Ph.D. 2001 (Associate Professor, North Carolina State University, Chapel Hill)
- Joseph Fargione, Ph.D. 2004 (North American Region Lead Scientist, The Nature Conservancy)
- Stan Harpole, Ph.D. 2005 (Assistant Professor, Iowa State University)
- Chris Clark, Ph.D. 2007 (AAAS Science and Technology Policy Fellow, US EPA)
- Ray Dybzinski, Ph.D. 2007 (Post-Doc, Princeton University)

***Current Ph.D. Students***

- Peter Hawthorne
- Rachel Putnam
- Margaret Kosmala
- Peter Wragg
- Matthew Burgess
- Jane Cowles
- Adam Clark

***Masters*** (Major Advisor)

- Frederick Johnson, M.S. 1981
- Mark McKone, M.S. 1981
- Greg Rice, M.S. 1981
- David Rugg, M.S. 1982
- Richard Kiesling, M.S. 1983
- Mary L. Cowan, M.S. 1986
- Clarence Lehman, M.S. 1992
- Anita Bajpai, M.S. 1996
- Erik Wardenaar, M.S. 1997
- Alan Flory, M.S. 2009

**MAJOR UNIVERSITY COMMITTEES AND SERVICE:**

- 1976-1978 EBB Seminar Committee (Head 1977-1978)
- 1976-1977 Phycologist Search Committee
- 1977-1978 All-College Seminar Committee
- 1978-1982 Itasca Curriculum Committee
- 1978 Population Ecologist Search Committee
- 1979 Experimental Field Ecologist Search Committee (Head)
- 1980-present Cedar Creek Advisory Committee
- 1980-1990 EBB Graduate Examination Committee
- 1980-1981 Population Ecologist Search Committee
- 1980 Freshwater Biological Institute Head Search Committee
- 1981-1989 Greenhouse Committee (Head)
- 1984-1985 Graduate Student Evaluation Committee (Head)
- 1985-1986 EBB Seminar Committee (Head)
- 1986-1987 Search Committee for Dean of Biology
- 1986-1988 Departmental Tenure and Promotion Committee
- 1986-1988 College Tenure and Promotion Committee
- 1986-1988 Head, Committee to establish a Microbial Ecology Minor Graduate Program
- 1987-1988 Provost's Committee to Develop a Comprehensive Plan for Biological Sciences
- 1987-1992 Member, General Research Advisory Council, Graduate School
- 1988 Microbial Ecologist Search Committee (Soils Department)
- 1988-1991 Director of Graduate Studies, Microbial Ecology Minor
- 1988-1990 Biological Sciences Building Committee
- 1989 Weed Ecologist Search Committee (Agronomy Department)
- 1989-1991 Deans' Advisory Committee for Biology
- 1989-1993 Oversight Committee, Gray Freshwater Biology Institute
- 1990-1991 Microbial Ecology Search Committee (Head, EEB)
- 1990-1991 Member, Research Executive Council (Staff Representative for Vice Provost of Arts, Sciences and Engineering)
- 1990-1993 Member, Gray Freshwater Biological Institute Advisory Board
- 1991 Head, EEB Teaching Responsibilities Committee
- 1992 EEB Ecologist Search Committee
- 1992-1995 Chair, General Research Advisory Committee (Awards intramural research support for university faculty)
- 1992-1995 Member, Graduate School Executive Council
- 1992-1994 Member, Gray Freshwater Biological Institute Limnologist Search Committee
- 1993-1995 Member, Indirect Cost Recovery Committee (Office of V.P. for Research)
- 1994-1995 Member, Search Committee for Provost of Arts, Sciences, and Engineering
- 1995-1996 EEB Awards Committee
- 1995-1998 Advisory Committee, Department of Ecology, Evolution and Behavior
- 1995-1996 Member, Search Committee for Fesler-Lampert Professorship in Ecological Economics
- 1995-1996 Member, Provost Committee to Reevaluate Biological Sciences

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1995-1997 Member, Provost's "Kitchen Cabinet"

1995-1998 EEB Advisory Committee

1996-1997 Chair, Search Committee for Ecosystem Ecologist

1997-1998 Chair, CBS Undergraduate Profile Committee (proposed and helped initiate the CBS Freshman Seminar Program)

1998-1999 Member, Search Committee for Department Head of Ecology, Evolution and Behavior

1998-1999 Member, then Chair, EEB Promotions and Tenure Committee

1999- 2000 Member, EEB Long-Range Planning Committee

2000 Member, EEB Search Committee for a Global Ecologist

2000 Chair, EEB Promotion and Tenure Committee

2000-2001 On sabbatical

2001 Member, Commission on Environmental Science and Policy, College of Natural Resources

2000-2002 Member, EEB Search Committee for a Population Biologist

2001-2002 Chair, EEB Post-Doctoral Selection Search Committee

2002-2003 Chair, EEB Search Committee for a Global Ecologist

2003 Member, Task Force on Academic Freedom

2003-2006 Member, Science and Scholarly Advisory Board

2003-2007 EEB, Promotion and Tenure Committee, Chair: 2004-2005

2003-2006 Member, McKnight Endowed Chair Review Committee

2004-2005 Member, Provost's Strategic Planning Task Force

2004-2005 Chair, EEB Promotion and Tenure Committee

2005 Co-Chair, Provost's Task Force on an Honor's College

2005 Member, Provost's University-wide National Academy Committee

2006 Member, Provost's Advisory Committee on the Creation of an Institute on the Environment

2007-2009 Founding Fellow, Institute on the Environment

2008-2009 Member, EEB Search Committee for Ecologist

2009-2011 Resident Fellow, Institute on the Environment

2011-2012 Member, Search Committee for Provost of University of Minnesota

#### **PAPERS PRESENTED AT NATIONAL AND INTERNATIONAL MEETINGS:**

More than 100 papers presented at scientific meetings from 1974 to the present time.

#### **OTHER ACTIVITIES, INCLUDING MEDIA INTERVIEWS**

1981 University of Maryland's "Distinguished Ecologist Seminar Series.

1982 Nominating Committee, Ecological Society of America  
 Convened an invited symposium on "Algal Competition" as part of the Third International Symposium on Microbial Ecology

1984 Advisor to The Institute for Ecosystem Studies, Cary Arboretum



- 1985 Invited participant and section leader for the Cary Conference on the Status and Future of Ecosystem Ecology, Institute of Ecosystem Studies, Millbrook, NY.  
Outside member of search committee to appoint a new chair in Ecological Theory at Lund University, Sweden (other outside member: John Maynard Smith).
- 1987 Invited speaker for the Cary Conference on Long-Term Studies in Ecology: Approaches and Alternatives, Institute of Ecosystem Studies, Millbrook, NY.  
Invited session chair for a conference on the Role of Theory in Ecology, Asilomar Conference Center, Monterey, CA.  
Convenor of a Symposium on "Perspectives on Plant Competition" held at Cedar Creek, and resulting in an edited volume of papers.
- 1988 Invited speaker for a Nordic Ecology Conference on Succession, Umea, Sweden.  
Presented the "Per Brink Lecture in Ecology" at Lund University, Sweden.  
Presented the University of Virginia's Moore Lecture in Ecology.  
Invited speaker on "Causes of Diversity Patterns in Plant Communities" for the Organization for Tropical Studies' Silver Anniversary Symposium, Miami, Florida.  
Member of Editorial Board for the University of Nebraska's "Great Plains Natural Science Series".
- 1989-93 Member of the Ecology Panel of the National Science Foundation.  
Invited speaker for the first Jacques Monod Conference on ecology, titled "Evolutionary Ecology: Species Interactions, Life History Strategies, and Community Dynamics," Roscoff, Brittany, France.
- 1990 Advisory Committee to the Director of the National Science Foundation, Washington, D.C.  
Invited Keynote speaker for the annual meeting of Southeastern Ecologists, Blacksburg, Virginia.
- 1991 Advisor to J.S. Guggenheim Memorial Foundation  
"Visiting Distinguished Ecologist" at Colorado State University, Fort Collins.
- 1991-92 Visiting Scientist, Imperial College of London, Silwood Park  
Appointed to faculty of the University of Groningen, Netherlands, to serve as co-chair on Han Olf's Ph.D. examination committee.
- 1993 Invited Moderator, Cary Conference, titled "Linking Species & Ecosystems," Millbrook, New York.
- 1993-94 Service on the Awards Committee for the Ecological Society of America's Eminent Ecologist Award.
- 1994 Live interview by Chris Welch, KPSA Public Radio 94.1, Berkeley CA.  
Nominated for President of Ecological Society of America.

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- Interviews for two articles by W. K. Stevens of *The New York Times*.  
Interview and article by Tom Meersman, Minneapolis Star Tribune, "Prairie study illustrates value of biodiversity."  
Interview and article by Elizabeth Pennisi of *Science News*.  
Interview with Tracy Watson of U.S. News and World Report.  
Live interview, Chris Welch, KPSA Public Radio, Berkeley, CA.  
Interviewed by Bonnie J. Wallace, Mutual Radio Broadcasting Network, KVOM, for AAAS Radio Science Update #968, "Biodiversity."  
Interview with Ruth Flanagan of *Earth Magazine*.  
Invited speaker for Minnesota Native Plant Society on "Prairie Biodiversity: Causes and Value," Bloomington, Minnesota.  
Visit and interview by film crew from WQED TV in Pittsburgh, PA for "Web of Life" for public television.  
Radio interview with Belle Nowland of the Environmental Action Report for segment "A week on biodiversity."  
Radio interview, Jeremy Cherfas, BBC Science Update across U.K.  
Interview and article by Carl Zimmer of *Discover Magazine*.  
Interview and article by Ruth Flanagan, *Earth Magazine*.  
Participant in GBA Synthesis and Keystone Species Workshop, Hilo, Hawaii.  
Interview and article by Yvonne Baskin in *BioScience*.
- 1995 Interview and article by Ann Brataas, *St. Paul Pioneer Press*.  
Co-Organizer and Local Host of the Global Change in Terrestrial Ecosystems "Focus 4" meeting, Cedar Creek Natural History Area, 23-27 September  
Interview with Mary Losure, MPR, on demise of tall grass prairie.  
Organizer of Long-Term Ecological Research National Coordinating Committee Annual Meeting, Cedar Creek Natural History Area, 20-22 October  
Invited speaker at Minnesota Chapter of The Nature Conservancy.  
Invited Keynote Speaker at the Minnesota Center for Environmental Advocacy's Annual Fund Raising Dinner. Title, "Safety in Numbers: Why Nature's Portfolio Needs Diversity."  
Invited speaker for the Environmental Technology and Services/Corporate Product Responsibility group at 3M.  
Gave presentation on Biodiversity and Ecosystem Function at Pew Scholars Annual Meeting
- 1996-98 On the Forest Research Advisory Committee of the Minnesota Forest Resources Council.  
One of the "Best and Brightest," Mpls./St. Paul Magazine.  
Speaker at the DNR Information & Education Bureau Annual Conference  
Interview and article by Ann Brataas, *St. Paul Pioneer Press*.  
Interview and article by Anne Moffat for "News" in *Science*.  
Interview with Tom Meersman for article in *Star Tribune*.  
Interview with Carol Yoon, *The New York Times*.  
Interview on NPR's "Science Friday"  
Interview with Richard Black, BBC World Service Radio, Radio Science Program,

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- London, for “*BBC Science Magazine*.”
- Interview with Janet Parker, Australian Broadcasting Corporation, Radio National, for show “*Earth Beat*.”
- Interview and article by Pamela Hsia, Microsoft Encarta Encyclopedia, on biodiversity work.
- Co-organizer of the “Spatial Ecology: The Role of Space in Population Dynamics and Interspecific Interactions” workshop in Santa Barbara, California.
- Invited talk at Saint Louis Park High School, Scientist of the Month, St. Louis Park, Minnesota.
- Guest on National Public Radio’s *Talk of the Nation*.
- Interview and article by D. Schneider, *Scientific American*.
- Guest speaker at the “Spring Open House” for the Friends of Belwin, Belwin Center, Afton, MN
- Interview with Karen Schmidt, *Earth Magazine*; Mark Ward, *Milwaukee Journal*; Laura Nergard and Paul Risser, Associated Press; Jim Ludick and S. Coleman, Associated Press Radio; Judy Finn, Monitor Radio; Paula McGrath, BBC Radio; and Ann Moffat, *Science*.
- Interview with S. Newman, *CNN*; Jeff Nielson, *Newton’s Apple*; T. Mulligan, *BBC World Service Radio*; Monte Hanson, *Finance and Commerce*; Tessa Body, Radio K, U of MN; Jim Dawson, *Star Tribune*; Mary Losure, *MPR*; Justin Kaufmann, *WBEZ Radio, NPR, Chicago*; J. Kaiser, *Science*; Bill Stevens, *The New York Times*; and Doug Taylor, *Seattle Environmental Review Newsletter*.
- 1997
- Member of Steering Committee and participant in workshop on “Universal Phenomena in Ecology,” Santa Fe, New Mexico.
- Member of the Science Advisory Group for *The World*, a radio news program on PRI.
- Interview with John Pitman, *Voice of America*; Omar Beer, *Mother Jones*; Yvonne Baskin, *Science*; Camile LaFavere, *Minnesota Alumni Magazine*; and Al Smuskiewicz, *World Book*.
- Interview for “Man in Space,” German public television.
- Interview with Academic Press Daily Insight, on the WWW.
- Presentation to Minnesota Senate Committee on Natural Resources and the Environment.
- Presentation to Legislature, House Environment and Natural Resources Committee hearing.
- Interview with Carole Yoon, *The New York Times*.
- Interview with John Meersman for article in Minneapolis Star Tribune.
- Interview with Richard Harris, NPR, Washington, D.C., airing on “Morning Edition.”
- Interview with Peter Howe, *Boston Globe*; Jeffiner Keen, “Radio Active” show, B.C., Canada; Jabeen Bhatti, *St. Paul Pioneer Press*; Dan Whipple, *Washington Times Magazine*.
- Participated in University of Minnesota’s “Unparalleled Minds” Research Fair.
- 1998
- Presenter at the Conference on "Population, Consumption, and Sustainability: Infinite Growth in a Finite World?" at the Science Museum of Minnesota.
- Interview with *London Times* regarding “Eden” project.
- Presidents New University Student Scholarship Award Luncheon, University of

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Minnesota.

Speaker at CBS Advisory Council.

Speaker for McKnight sponsored seminar on biodiversity.

Spoke and lobbied in D.C. on behalf of Save America's Forests.

1999 Glaser Distinguished Lectureship on Community Ecology, Florida International University, Miami.

Presentation and panel discussion at the Bush Foundation Board of Directors Meeting.

Taped interview with Mari Jensen for NSF's 50<sup>th</sup> Anniversary Book on Biodiversity.

Briefings of the *Benefits of Biodiversity* report in Washington, D.C. before the White House Office of Science and Technology Policy; the House Agriculture Committee and Senate Resources Committee; and the U.S. Senate Committee on Agriculture, Forestry, and Nutrition and the media on behalf of the Council for Agricultural Science and Technology (CAST) and ESA.

Radio interview, Voice of America, Washington, D.C.

Invited talk at Saint Louis Park High School, Scientist of the Month, St. Louis Park, Minnesota.

After Dinner Speaker at the 25<sup>th</sup> Anniversary of the Minnesota Center for Environmental Advocacy.

Invited speaker for "Itasca at 90: Field Stations at the Crossroads" Celebration Symposium, University of Minnesota.

Interview with Paul Raeburn for January 2000 Popular Science, their millennium issue.

Interview with Paul Bockhorst, Producer of documentary "The Natural Heritage Project," Idaho State University.

Interview with Laura Tangley, U.S. News and World Report.

Interview with Oliver Baker, *Science News*.

Interview with John Carey, *National Wildlife* magazine.

2000 Invited speaker in the Eminent Biologist Lecture Series, both a public and technical lecture given, University of Pittsburgh.

Invited keynote speaker at the Honors Day Convocation of St. Olaf College, Northfield, MN.

Keynote speaker at the annual convention of The American Hosta Society.

"Biodiversity Advisor" for the Natural Heritage Project, Idaho State University.

Invited speaker on "Biological Diversity" to science staff of the Office of Management and Budget, Washington, D.C.

Presentation to the Uof MN Regents regarding Law, Ethics and Public Policy.

Interviewed for a film documentary, "Uncommon Ground," co-produced by Twin Cities Public Television and The College of Natural Resources at the University of Minnesota.

TV interview on biodiversity research for *DÉCOUVERTE*, a weekly science and technology program of the national French Canadian Broadcasting Corporation, aired in January, 2001.

2001 Radio interview with Beth Eastwood at BBC World Service, April 10, 2001.

Interviewed by Margaret Monro, *National Post*, Canada; by Fred Pearce, *New Scientist*;

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- Lee, *St. Paul Pioneer Press*; and Sally Farley, “The Land”, April 11, 2001.  
Interview with Heather Dewar for *Baltimore Sun* on eco forecasting and agriculture, April 13, 2001.  
Interview with Ann Griffith for article in Santa Barbara News-Press, “Farming, ranching seen as polluters,” April 13, 2001.  
Interviewed by the Santa Barbara News-Press, “Striking a balance,” April 18, 2001, by Public Radio, and by two Santa Barbara area TV stations on the Science article on the environmental impacts of agriculture.  
Contributed to article “Study of plants makes a case for biodiversity” in the Washington Post, April 16, 2001.  
Interviewed by Tom Clarke for *Nature News, Science Update*, “Green apples upset cart,” April 19, 2001.  
Interview for The Gazette, Montreal, Quebec, “Growing food for a new generation: Better farming required, scientists say,” April 27, 2001.  
Served as outside advisor on Review Committee of the Population Biology Graduate Program at the University of California, Davis.  
Served on Review Panel for the German Science Foundation.  
Interview with Gary Taubes with the Essential Science Indicators regarding highly cited papers, October 12, 2001.
- 2002
- Gave presentation to the University of Minnesota Foundation Board.  
Gave address at Graduate School Commencement, University of Minnesota.  
The most-cited scientist in environment/ecology for 1992-2002.  
Interviewed by Cynthia Boyd for article on preserving land appearing in the St. Paul Pioneer Press, Minnesota.  
Interviewed by Madison, Wisconsin, public radio on biodiversity research.  
Interviewed for Great Lakes Radio Consortium programs on human appropriation of plant productivity and on impacts of human-caused nitrogen deposition  
Appeared on NPR’s *Science Friday* to discuss agricultural sustainability  
Interviewed by Chris Williams, Associated Press, for article on biodiversity and ecosystem functioning  
Interviewed by Dan Haugen, The Minnesota Daily, for article on Cedar Creek’s 60<sup>th</sup> Anniversary.  
Interviewed by Amanda Lowthian of Oregon Public Broadcasting for their “Frontiers” program.  
Presentation to the St. Paul Audubon Society.
- 2003
- National Center for Earth-surface Dynamics, National Science Foundation, Univ. of MN.  
Interviewed by Mac Margolis for Newsweek on agricultural sustainability.  
Interview with Menno Schilthuizen for *Science*  
Presentation at Minnesota’s Renewable Energy Research: Status and Opportunities Conference, St. Paul, MN.  
On camera interview for production called “Uncommon Ground”  
Tour for reporters from Maryland and Minnesota  
Interview with Rex Dalton for *Nature*

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- Science Advisory Committee, Minnesota Science Museum  
Presentation to National Academy of Science members at the University of Minnesota
- 2004 Interviewed by Tinsley Davis for biography appearing with his inaugural article in Proceedings of the National Academy of Sciences.  
Served on Peer Review Board evaluating the Research Unit for the Jena, Germany, biodiversity experiment.  
Interview with Scott Fields for *Environmental Health Perspectives*  
Research was part of a biodiversity exhibit at the Bell Museum of Natural History, University of Minnesota  
Participated in Visions Meeting of the Global Solutions Institute for Environment and Energy.
- 2005 Interview with Dan Olson of MPR  
Interviewed and filmed for University of Minnesota Foundation Distinguished Professors film.  
Interview with Jason Juno for the Minnesota Daily.  
Video taping for Global Solutions video.  
Interviewed by John Whitfield for a book to be put out by the Joseph Henry Press at the National Academy of Sciences.  
Interview with Marc Hequet, journalist, Time Magazine.  
Interview and taping for Cedar Creek portion of documentary for Twin Cities Public TV.  
Invited presentation to St. Paul Garden Club.  
Keynote speaker for U of MN Curiosity Camp held at Cedar Creek Natural History Area.  
Invited presentation to the Minneapolis Garden Club.
- 2006 Interview with Greg Breining, freelance writer, for U of MN College of Biological Sciences.  
Cedar Creek Research Symposium, City of East Bethel, Minnesota.  
Phone and video interview with Jack Penland of ScienCentral News.  
Interview with Richard Van Noorden for article at [news@nature.com](mailto:news@nature.com).  
Interview with Nancy Eve Cohen, WNPR, Connecticut Public Radiol, June 2, 2006.  
Interview by Phil LeBeau for *Survival Guide* segment on CNBC airing July 13, 2006.  
Interview and article by A. Cunningham for *Science News*.  
Interview with Paul Lussier of the Discovery Channel.  
Interview with Bob McDonald for *Quirks & Quarks*, CBC Radio, Toronto, Canada.  
Presentation at EEB's Fall Retreat, Harriet Alexander Nature Center, Roseville, Minnesota.  
Part of external review committee for Brackenridge Field Laboratory, University of Texas at Austin.  
Interview with Mike Meyers, *StarTribune*, Minneapolis, MN.  
Interview with Charlotte Schubert for article at [news@nature.com](mailto:news@nature.com).  
Interview with Chris Joyce, National Public Radio, for *All Things Considered*.  
Interview and article by Nikhil Swaminathan for *Scientific American.com*.  
Interview and article by A. Cunningham for *Science News Online*.

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- Guest on “Midmorning” show on Minnesota Public Radio.  
Co-author of invited Editorial appearing in the *StarTribune*, Minneapolis, Minnesota.
- 2007
- Interview with Bill Hudson, WCCO TV News, Minneapolis, MN.  
Invited testimony to the Minnesota Senate Agriculture Committee.  
Invited address, in the Minnesota House, to six MN House and Senate energy or environment relevant committees, Minnesota State Capitol, St. Paul, Minnesota.  
Presentation to Minnesota House Environment & Natural Resources, and Energy Policy & Finance Committees, St. Paul, Minnesota.  
Briefed US House Agriculture Committee Chair on biodiversity and biofuels.  
Presented an invited luncheon seminar to the German Marshall Fund, Washington, DC.  
Invited ‘Distinguished Speaker’ for the U.S. Department of State Committee on Energy and Natural Resources, Washington, D.C.  
Invited briefing to the U.S. House and Senate Energy Committee staff, Washington, D.C.  
Wrote invited Op-Ed on Biofuels for the Washington Post  
Lead Washington Post internet chat on biofuels.  
Interviewed for *Drive Time Radio* in Washington, D.C.  
Video interview with Jen Wahle, News Anchor KDLT TV, Sioux Falls, SD, for series on ethanol efficiency.  
Participated in and lead panel discussion at Freeman Lecture program, “Food or Fuel: The Emerging Competition,” University of Minnesota.  
Service on Governor Pawlenty’s *Minnesota Climate Change Advisory Group*  
Participated in roundtable discussion on potential energy strategies, at the request of Governor Tim Pawlenty.  
Interviewed at KSTP TV, studios in St. Paul, MN, for program on Global Warming.  
Interviewed with Billie Young for book on University of Minnesota’s research into biofuels.  
Interviewed with KARE 11 News, Minneapolis, MN.  
Interviews and filming with Eric Weiner of Tokyo Broadcasting.  
Interviewed with Chandra Simons for “Dan Rather Reports.”  
Interviewed with Japan’s most popular nightly news program called “Hodo Station” TV Asahi.  
Interviewed with WHYY, PBS in Philadelphia, “Radio Times” with Marty Moss-Cohane.  
Interviewed with Kentaro Araqaki, TV interview for Tokyo Broadcasting System.
- 2008
- Discussion on National Public Radio’s “Science Friday” program about the recently published Science paper on the environmental impacts of alternative types of biofuels.  
Interview with Michael Grunwald from Time Magazine for “The Clean Energy Myth.”  
Interview, KVMR Radio, Nevada City, CA.  
Interview, WCCO Radio, Minneapolis, MN.  
Interview with Jennifer Bogo, Popular Mechanics, for “The Shape of Fuels to Come,”  
Interviewed with Eli Kintisch at Science Magazine for a feature article on research at Cedar Creek Ecological Science Reserve, “News Focus: Minnesota Ecologist Pushes Prairie Biofuels.”  
Filmed interview, Institute on the Environment, University of Minnesota. “Biodiversity

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- Research at Cedar Creek” and “Convincing the Climate Change Skeptics,” broadcast from Institutue on the Environment’s website.  
Filmed interview, Climate Central. “Iowa: Corn and Climate,” aired on PBS’s The NewsHour with Jim Lehrer, January 2009.  
Interview with David Mahoney, MSP Magazine, for “Just Asking... David Tilman.”  
Interview with Steve Marsh from the University of Minnesota Alumni Association’s Minnesota Magazine for a feature article on Dr. Jonathan Foley, “Down to earth.”  
Featured in the Minnesota Public Radio Mid-Day program’s “Voices of America” episode on the environment, discussing population, food production and cellulosic ethanol.
- 2009 Interview with Dan Charles, Science Magazine, for “Science Insider” blog (May 5, 2009).  
Interview with Virginia Gewen, Nature, for feature article on the transformation of ecology into a predictive science.  
Interview with Dr. Andres Roemer for La Ciudad de las Ideas TV program on Mexico’s Channel 40.  
Interview with Erik Stokstad for “Origins” article in Science Magazine.  
Interview with Virginia Gewin for “Rack and Field” News Feature in Nature.  
Interview with Don Shelby at WCCO Radio in Minneapolis, MN.  
Filmed interview with Larkin McPhee for the documentary project, “Mississippi Waters”.
- 2010 Interview with Hans van Maanen for biography in the Koninklijk Nederlandse Akademie van Wetenschappen  
Interview with Susan Milius for “Losing Life’s Variety” feature in *Science News*  
Interview with Wendee Holtcamp for “Can eating less meat curb climate change?” published on *The Daily Climate*  
Contributed to “Scientist’s Soapbox” column in the University of Minnesota IonE’s *Momentum* magazine titled: “Feed the world, save the Earth”  
Interview with Jeff Tollefson of *Nature*
- 2011 Interview with Drew Kerr for *Finance and Commerce*  
CBS Quirks & Quarks, Dec 2011