

## DAVID U. HOOPER

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### Positions held

9/2004-present: Associate Professor, Dept. of Biology, Western Washington University.  
9/2000-9/2004: Assistant Professor, Dept. of Biology, Western Washington University.  
9/98-9/2000: Visiting Assistant Professor, Dept. of Biology, Western Washington University.

### Education

1997-98: NSF Post-Doctoral Fellow with Dr. F.S. Chapin III, Department of Integrative Biology, University of California, Berkeley and at Western Washington University, Bellingham, Washington. Effects of Plant Composition on Arctic Tundra Carbon Balance: Functional Traits and Time Lags.  
1996-97: Post-doctoral research with Dr. F.S. Chapin III, Department of Integrative Biology, University of California, Berkeley. Effects of temperature and vegetation type on arctic tundra carbon balance.  
1996: Ph.D., Biological Sciences, Stanford University. Thesis: "Effects of plant functional group diversity on nutrient cycling in a restored California serpentine grassland." Dr. Peter Vitousek, advisor.  
1984: B.A. *summa cum laude*, Chemistry, concentration in French, Middlebury College, Middlebury, Vermont.

### Current Research Interests

Ecosystem ecology: effects of plant diversity on ecosystem processes; vegetation effects on biogeochemical processes; carbon balance in Arctic tundra; nutrient cycling; impacts of global change and species invasions; restoration ecology.

### Awards and Fellowships

2000: George Mercer Award, with Peter Vitousek, for an outstanding publication in the field of ecology, Ecological Society of America.  
1997-98: National Science Foundation Post-Doctoral Fellow in Biosciences Related to the Environment.  
1990-93: National Science Foundation Graduate Fellow.  
1991: Wessels Teaching Award, Biological Sciences, Stanford University.  
1984: Phi Beta Kappa, American Institute of Chemists Award, Charles B. Allen Award, Middlebury College.

### Teaching Experience

Courses taught in the Dept. of Biology, Western Washington University, unless otherwise noted.  
Introduction to Biology (BI 101) Winter 1999.  
General Biology III (Botany; BI 203) Spring 1999, 2001, Winter 2000.  
Ecology, Evolution, and Biodiversity (BI 204) Spring 2003, Fall 2003.  
Ecology (BI 325) and Ecology Lab (BI 326) Fall 1998, 1999, 2000, 2001, 2002, Spring 2004.  
Ecology (ENVR 325) Huxley College of Environmental Studies. Winter 1999.  
Ecosystem Ecology/Advanced Ecosystem Ecology (BI 416/516) Winter 2000, 2002, 2004, 2006.  
Ecosystem Services (BI 599) Winter 2003.

- 1999: Served as an invited external examiner for students in the Honors Program, Swarthmore College, Swarthmore, Pennsylvania. Dr. Roger Latham, host. May 20-22, 1999.
- 1991-94: Teaching Assistant for "Biology and Global Change" (BIO 117) and core introductory biology lecture (BIO 33) and lab (BIO 44Y), Stanford University. Designed and implemented field study on oak/mistletoe interactions.

### **Advising**

1994-present

- Undergraduate theses: Jody Beh and Rebecca Meredith (graduated 6/05), Rich Gwozdz (graduated 6/03), Jesse Burns (graduated 6/01), Dominic Chiarelli (graduated 6/01), Crystal Elliot (graduated 6/01), and Jeffrey Ninneman (graduated 12/00), Cynthia Benton (graduated 6/94, Stanford University).
- Undergraduate research experience: LeChi Huynh (Summer '05), Theresa Black, Matt Seifert, Nick Marlatt (Spring '04), Lisa Marko, Sean McGrorey (Fall '03), Rebecca Meredith ('03-'04), Tucker Jones (Squalicum High School student, Spring '03), Erica Davis (Spring '03), Kelsie Mullin (Fall '02, Winter '03), Kara Davis (Winter, Spring '02), Mikki Seagren (Fall '01), James Mason (Spring '01), Colleen Mohl (1998-99).
- Masters students: Molly Bernegger, Sarah Harper-Smith, Brad Leckron (all started fall '05), Allison Neils (started fall '04), Leslie Gonzalez (started fall '03), Heather Pedersen (started fall '03), Cara Leverett (graduated spring '03), Leslie Allen (graduated spring '02).
- Masters thesis committees: Adria Banks (Biology), David Waltz (Biology), Amy Savage (Biology), Chris Fabry (Biology), Ellie Rose (Biology), Kevin O'Brien (Huxley College)

### **Research Grants**

- 2006: National Science Foundation Research Experience for Undergraduates grant supplement. \$6250 to support 1 undergraduate student during summer 2006. *submitted*
- 2005: National Science Foundation Research Experience for Undergraduates grant supplement. \$6250 to support 1 undergraduate student during summer 2005.
- 2004: National Science Foundation grant DEB04-47418, "RUI: Effects of riparian restoration on macroinvertebrate communities in lowland streams of the Pacific Northwest". Not funded, \$540,414.
- 2003: National Science Foundation grant DEB03-40813, "CAREER: Restoring riparian function – linking plant diversity, salmon habitat, and ecological/economic inquiry". Not funded, \$959,941.
- 2002-2007: National Science Foundation grant DEB02-13187, "Patterns of community assembly in serpentine grasslands: the roles of initial plant composition and functional complementarity". Funded: 7/1/02, \$270,000.
- 2003: Lummi Natural Resources, "Census of Wetland Plant Diversity". \$1800 to support work by one undergraduate student (Rebecca Meredith), 8/8-9/15/2003.
- 2001: National Science Foundation Research Experience for Undergraduates grant supplement. \$5000 to support 1 undergraduate student (Jesse Burns) during summer 2001.
- 2000: National Science Foundation Research Experience for Undergraduates grant supplement. \$5000 to support 2 undergraduate students (Dominic Chiarelli and Crystal Elliot) during summer 2000.
- 1999-2002: National Science Foundation grant DEB99-74159, "Effects of plant diversity and functional characteristics on species invasions", \$200,000.
- 1993-94: Morrison Institute for Population and Resource Studies, Stanford University, "Effects of Plant Species Diversity on Nutrient Cycling in a Restored Serpentine Grassland in California", \$7,110.
- 1992-94: National Science Foundation Doctoral Dissertation Improvement Grant DEB-9212995, "Effects of Plant Species Diversity on Nutrient Cycling in a Restored Serpentine Grassland in California", with Dr. P.M. Vitousek (P.I.), \$15,000.

1992-93: Stanford-NASA/Ames Cooperative Program in Global Change, "Effects of Plant Functional Group Diversity on Nutrient Cycling in a Restored California Serpentine Grassland", \$9,360.

## Publications

### In preparation and submitted:

Suding, K.N., S. Lavorel, F.S. Chapin III, H. Cornelissen, S. Díaz, E. Garnier, D. Goldberg, D.U. **Hooper**, S.T. Jackson, and M.L. Navas. submitted. Scaling environmental change from traits to communities to ecosystems: the challenge of complexity at intermediate scales. *Global Change Biology*.

\*Chiarelli, D., D.U. **Hooper**, and T. Balser (in prep) Effects of plant functional group diversity on soil microbial communities. For submission to *Functional Ecology*.

\*paper first authored by undergraduate student

### In press and published:

**Hooper**, D. U., F. S. Chapin, III, J. J. Ewel, A. Hector, P. Inchausti, S. Lavorel, J. H. Lawton, D. Lodge, M. Loreau, S. Naeem, B. Schmid, H. Setälä, A. J. Symstad, J. Vandermeer, and D. A. Wardle (2005) Effects of biodiversity on ecosystem processes: Implications for ecosystem management. A position statement for the Ecological Society of America. (<http://www.esa.org/pao/esaPositions/Statements/effectsBiodiversity.php>)

**Hooper**, D. U., F. S. Chapin, III, J. J. Ewel, A. Hector, P. Inchausti, S. Lavorel, J. H. Lawton, D. Lodge, M. Loreau, S. Naeem, B. Schmid, H. Setälä, A. J. Symstad, J. Vandermeer, and D. A. Wardle (2005) Effects of biodiversity on ecosystem functioning: a consensus of current knowledge. *Ecological Monographs* **75**:3-35.

**Hooper**, D. U., and J. S. Dukes (2004) Overyielding among plant functional groups in a long-term experiment. *Ecology Letters* **7**:95-105.

**Hooper**, D.U., Z.G. Cardon, F.S. Chapin III, and M. Durant (2002) Corrected calculations for whole ecosystem measurements of CO<sub>2</sub> flux using the LI-COR 6200 portable photosynthesis system. *Oecologia* **132**: 1-11. DOI 10.1007/s00442-002-0870-3

**Hooper**, D.U., M. Solan, A. Symstad, S. Díaz, M.O. Gessner, N. Buchmann, V. Degrange, P. Grime, F. Hulot, F. Mermillod-Blondin, J. Roy, E. Spehn, L. van Peer (2002) Species diversity, functional diversity and ecosystem functioning. pp. 195-208 in P. Inchausti, M. Loreau, and S. Naeem, eds. *Biodiversity and ecosystem functioning: synthesis and perspectives*. Oxford University Press, Oxford, UK.

Neff, J.C., and D.U. **Hooper** (2002) Vegetation and climate controls on potential CO<sub>2</sub>, DOC and DON production in northern latitude soils. *Global Change Biology* **8**: 872-884.

Loreau, M., S. Naeem, P. Inchausti, J. Bengtsson, J.P. Grime, A. Hector, D.U. **Hooper**, M.A. Huston, D. Raffaelli, B. Schmid, D. Tilman, and D.A. Wardle (2001) Biodiversity and ecosystem functioning: current knowledge and future challenges. *Science* **294**: 804-808.

Thompson, J.N., O. J. Reichman, P.J. Morin, G.A. Polis, M.E. Power, R.W. Sterner, C.A. Couch, L. Gough, R. Holt, D.U. **Hooper**, F. Keesing, C.R. Lovell, B.T. Milne, M.C. Molles, D.W. Roberts, S.Y. Strauss (2001) Frontiers in Ecology. *BioScience*: **51**: 15-24.

**Hooper**, D.U., D.E. Bignell, V.K. Brown, L. Brussaard, J.M. Dangerfield, D.H. Wall, D.A. Wardle, D.C. Coleman, K.E. Giller, P. Lavelle, W.H. v. d. Putten, P.C. d. Ruiter, J. Rusek, W.L. Silver, J.M. Tiedje, and V. Wolters (2000) Interactions between aboveground and belowground biodiversity in terrestrial ecosystems: patterns, mechanisms, and feedbacks. *BioScience* **50**:1049-1061.

Wolters, V., W.L. Silver, D.E. Bignell, D.C. Coleman, P. Lavelle, W.H. van der Putten, P. de Ruiter, J. Rusek, D.H. Wall, D.A. Wardle, L. Brussaard, J.M. Dangerfield, V.K. Brown, K.E. Giller, D.U. **Hooper**, O. Sala, J. Tiedje, and J.A. van Veen (2000) Effects of global changes on above- and belowground biodiversity in terrestrial ecosystems: Implications for ecosystem functioning. *BioScience* **50**:1089-1098.

- Chapin, F.S. III, E.S. Zavaleta, V.T. Eviner, R.L. Naylor, P.M. Vitousek, H.L. Reynolds, D.U. **Hooper**, S. Lavorel, O.E. Sala, S.E. Hobbie, M.C. Mack, and S. Díaz (2000) Functional and societal consequences of changing biotic diversity. *Nature* **405**: 234-242.
- Hooper**, D.U. and L. Johnson (1999) Nitrogen limitation in dryland ecosystems: responses to geographical and temporal variation in precipitation. *Biogeochemistry* **46**: 247-293.
- Naeem, S., F.S. Chapin III, R. Costanza, P.R. Ehrlich, F.B. Golley, D.U. **Hooper**, J.H. Lawton, R.V. O'Neill, H.A. Mooney, O.E. Sala, A.J. Symstad, and D. Tilman (1999) Biodiversity and ecosystem functioning: maintaining natural life support processes. *Issues in Ecology* 4. Ecological Society of America. Washington D.C., USA.
- Hooper**, D.U. 1998. The role of complementarity and competition in ecosystem responses to variation in plant diversity. *Ecology* **79**: 704-719.
- Hooper**, D.U. and P.M. Vitousek. 1998. Effects of plant composition and diversity on nutrient cycling. *Ecological Monographs* **68**: 121-149.
- Chapin, F.S. III, O.E. Sala, I.C. Burke, J.P. Grime, D.U. **Hooper**, W.K. Lauenroth, A. Lombard, H.A. Mooney, A.R. Mosier, S. Naeem, S.W. Pacala, J. Roy, W. Steffen, and D. Tilman. 1998. Ecosystem consequences of changing biodiversity. *BioScience* **48**: 45-52.
- Verville, J.H., S.E. Hobbie, F.S. Chapin III, and D.U. **Hooper**. 1998. Response of tundra CH<sub>4</sub> and CO<sub>2</sub> flux to manipulation of temperature and vegetation. *Biogeochemistry* **41**: 215-235.
- Hooper**, D.U. and P.M. Vitousek. 1997. The effects of plant composition and diversity on ecosystem processes. *Science* **277**: 1302-1305.
- Chapin, F.S. III, B.H. Walker, R.J. Hobbs, D.U. **Hooper**, J.H. Lawton, O.E. Sala, and D. Tilman. 1997. Biotic control over the functioning of ecosystems. *Science* **277**: 500-504.
- Hooper**, D., D. Hawksworth, and S. Dhillon. 1995. Microbial diversity and ecosystem processes. Pages 433-443 in United Nations Environment Programme. *Global Biodiversity Assessment*. Cambridge University Press, Cambridge, UK.
- Vitousek, P.M. and D.U. **Hooper**. 1993. Biological diversity and terrestrial ecosystem biogeochemistry. Pages 3-14 in E.-D. Schulze and H.A. Mooney, editors. *Biodiversity and Ecosystem Function*. Springer-Verlag, Berlin, Germany.

### Contributed papers

- Hooper, D.U., J.S. Dukes, and R. Meredith. 2005. Historical effects of community composition on invader success: functional mechanisms in community assembly. In: *Abstracts: The Ecological Society of America 89<sup>th</sup> Annual Meeting*, Aug. 7-12, 2005. Montreal, Quebec. Ecological Society of America, Washington D.C.
- Hooper, D.U. and J.S. Dukes. 2003. Plant traits, community assembly and ecosystem functioning. p. 154 in: *Abstracts: The Ecological Society of America 88<sup>th</sup> Annual Meeting*, Aug. 2-8, 2003. Savannah, GA. Ecological Society of America, Washington D.C.
- Leverett, C. and D.U. Hooper. 2002. Effects of reed canary grass and red alder on riparian nutrient dynamics. *Bulletin of the Ecological Society of America*, Supplement to Vol. 83, No.4.
- Hooper, D.U., and J.S. Dukes. 2001. Complementarity among grassland functional groups. *Bulletin of the Ecological Society of America*, Supplement to Vol. 82, No.4: 20.
- Dukes, J.S., D.U. Hooper, and J. Verville. 2001. The role of resource availability in plant community invasibility. *Bulletin of the Ecological Society of America*, Supplement to Vol.82, No.4: 84.
- Dukes, J.S., D.U. Hooper, and J. Verville. 2001. The role of resource availability in plant community invasibility. in Sixth Biennial Conference of Research on the Colorado Plateau, Flagstaff, Arizona.
- Hooper, D.U., J.S. Dukes, and J. Verville (2000) Effects of diversity on the invasibility of plant communities in California serpentine grassland. *Bulletin of the Ecological Society of America*, Supplement to Vol. 81, No.4: 121.

- Hooper, D.U., J.C. Neff, and F.S. Chapin III (1999) Links between production of CO<sub>2</sub> and dissolved organic carbon in soils from Alaskan tundra. *Bulletin of the Ecological Society of America*, Supplement to Vol. 80, No.4: 111.
- Hooper, D.U., and F.S. Chapin III (1998) Effects of latitude and vegetation type on soil organic matter pools in Alaskan tundra. *Bulletin of the Ecological Society of America*, Supplement to Vol. 79, No.4: 177.
- Hooper, D.U. (1997) Effects of plant composition and diversity on primary productivity and nutrient cycling. *Bulletin of the Ecological Society of America*, Supplement to Vol. 78, No.4: 17.
- Hooper, D.U., S.E. Hobbie, J.H. Verville, and F.S. Chapin III (1996) Temperature and vegetation controls on soil CO<sub>2</sub> flux in Alaskan tundra. *Bulletin of the Ecological Society of America*, Supplement to Vol. 77, No.3: 202.
- Hooper, D.U., and P.M. Vitousek (1995) Plant composition has a larger effect on microbial immobilization than does plant diversity in a California serpentine grassland, *Bulletin of the Ecological Society of America*, Supplement to Vol. 76, No.3: 119-120.
- Verville, J.H., F.S. Chapin III, S.E. Hobbie, and D.U. Hooper (1995) Plant growth form more important than temperature in controlling CH<sub>4</sub> flux in Alaskan tundra communities, *Bulletin of the Ecological Society of America*, Supplement to Vol. 76, No.3: 398.
- Hooper, D.U., and P.M. Vitousek (1994) What's diversity got to do, got to do with it? Nutrient cycling in a California serpentine grassland, *Bulletin of the Ecological Society of America*, Supplement to Vol. 75, No.3: 98.
- Hooper, D.U., and P.M. Vitousek (1993) Effects of Plant Species Diversity on Nutrient Cycling in a California Serpentine Grassland, *Bulletin of the Ecological Society of America*, Supplement to Vol. 74, No.3: 280.
- Hooper, D.U., and P.M. Vitousek (1992) Effects of plant diversity on terrestrial ecosystem biogeochemistry: patterns, mechanisms, and constraints, *Bulletin of the Ecological Society of America*, Supplement to Vol. 73, No. 3: 211.

### **Invited Symposia, Conferences, and Talks**

2005

Invited workshop. The fate of nitrogen inputs to terrestrial ecosystems. Pamela Templer, Michelle Mack and Knute Nadelhoffer, organizers. National Center for Ecological Analysis and Synthesis. Santa Barbara, CA. May 9-13, 2005.

Invited talk. "Plant traits, community assembly and ecosystem functioning." Laboratoire d'Ecologie Alpine, CNRS, Université Joseph Fourier, Grenoble, France. 2/8/2005.

2004

Invited workshop. Scaling Plant Functional Traits from Communities to Ecosystems. Borchard Workshop organized by Kate Suding and Sandra Lavorel, Missillac, France. 6/27-7/1, 2004.

Invited workshop. PaleoNorthwest: Science for its own sake, science for decision makers, communication with stakeholders. Organized by Eric Steig, Program on Climate Change, University of Washington. Held at The Chrysalis Inn, Bellingham, WA. 4/15-16/2004.

Invited talk. Northwest Fisheries Science Center, Seattle, WA. 1/22/2004.

Invited talk. Department of Biology, University of British Columbia, 2/10/2004.

Invited talk. Graduate student invited speaker, Institute of Ecology, University of Georgia, 3/5/2004.

2003

Invited workshop and core participant. BioMERGE Adaptive Synthesis Workshop II. Shahid Naeem, organizer, University of Missouri Botanical Gardens, St. Louis, MO, Oct. 24-27, 2003.

Invited talk. Ecological Society of America Organized Oral Session: "Functional ecology and the assembly of plant communities." David Ackerly and Sandra Díaz, organizers. Annual Meeting. Savannah, GA. Aug. 5, 2003.

Invited talks. "The more the merrier? The influence of plant functional traits and diversity on complementarity and invasibility."

- Centre for Biodiversity Research, University of British Columbia, Vancouver, B.C. Jan. 22, 2003.
- Dept. of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO. Feb. 2003.
- Dept. of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA. March, 2003.

*2002*

Invited workshop and core participant. BioMERGE Adaptive Synthesis Workshop I. Shahid Naeem, organizer, University of Washington, Seattle, Oct. 25-28, 2002.

Invited talk. Department of Zoology, University of Washington, "The more the merrier? The influence of plant functional traits and diversity on complementarity and invasibility." Seattle, WA. Oct. 22, 2002.

Invited talk. Natural Resources Ecology Lab, Colorado State University, "Effects of plant diversity on ecosystem processes: productivity, nutrient cycling, and resistance to invasion." Ft. Collins, CO, March 18, 2002.

*2001*

Invited talk. Ecological Society of America Symposium: "Functional similarity and functional groups in ecological systems." Annual Meeting. Madison, Wisconsin, Aug. 2001.

Invited talk. "Effects of plant diversity on ecosystem processes: productivity, nutrient cycling, and resistance to invasion." Seminar series for Huxley College of Environmental Sciences, Western Washington University. Feb. 6, 2001.

*2000*

Organized meeting on "Biodiversity and Ecosystem Functioning: a consensus of current knowledge and needs for future research", under the auspices of the Ecological Society of America. Paris, France. Dec. 10-11, 2000.

Synthesis meeting on Biodiversity and Ecosystem Function. Workshop leader for "Functional or species designations". Paris, France. Dec. 6-9, 2000.

Visiting Scholar (invited), Centre for Population Biology, Imperial College at Silwood Park, Ascot, United Kingdom. June 18-30, 2000. Invited talk: "Plant diversity, complementarity, and invasibility in California serpentine grassland." June 29, 2000.

Invited talk. "Diversity effects on ecosystems: productivity, nutrient cycling, and invasibility," Kansas State University, Manhattan, Kansas. April 13, 2000.

*1999*

National Science Foundation Workshop: "Frontiers in Ecology". Washington D.C., December 6-9, 1999.

Department seminar. "Effects of plant diversity on ecosystem processes: productivity, nutrient cycling, and resistance to invasion." Department of Biology, Western Washington University. Bellingham, WA. October 12, 1999.

*1998*

Workshop on "Biodiversity Above and Below the Surface of Soils and Sediments", organized by the Scientific Committee on Problems of the Environment (SCOPE), Lunteren, The Netherlands, October 12-16, 1998.

Invited talk. Symposium on "Biodiversity and Ecosystem Functioning", Wageningen Agricultural University, Wageningen, The Netherlands, October 12, 1998.

Invited talk. "Diversity, ecosystem processes, and policy." Program in Biogeochemistry and Environmental Change, Cornell University, Ithaca, NY. Sept. 11, 1998.

Hewlett Seminar Series, Panel Discussion on Biodiversity and Ecosystem Processes, College of Natural Resources, University of California, Berkeley, Feb. 25, 1998

*1997*

Invited talk. Ecological Society of America Symposium: "Biodiversity and Ecosystem Processes", Annual Meeting. Albuquerque, New Mexico, Aug. 13, 1997

Workshop on Harvesting in the Boreal Forest of Alaska, sponsored by USDA Forest Service, Institute of Northern Forestry Cooperative Research Unit, and the University of Alaska Fairbanks, Institute of Arctic Biology. Fairbanks, Alaska, June 5-7, 1997.

National Center for Ecological Analysis and Synthesis workshop: Extrapolation of Arctic and Boreal Processes that Feedback to Climate, Workshop II: Changes in trace gas fluxes. Santa Barbara, California, April 10-13, 1997

1996

A Comparative Analysis of Nitrogen Cycling in the Temperate and Tropical Americas, Organized by the Scientific Committee on Problems of the Environment: the International SCOPE Nitrogen Project. Termas de Chillan, Chile, Dec. 2-6, 1996.

Global Change and Tundra Soil Biology - An International Workshop. Organized by the Arctic-Alpine Terrestrial Ecosystems Research Initiative (ARTERI) of the European Community. Danish Polar Centre, Copenhagen, Denmark, Nov. 1-4, 1996.

1994

Biodiversity and Ecosystem Function, Synthesis Meeting. Scientific Committee on Problems of the Environment/United Nations Environment Programme, Project on Biodiversity and Ecosystem Function. Asilomar, Pacific Grove, CA, Feb. 27-March 3, 1994.

1993

Biological Diversity and Ecosystem Function: Islands as Model Systems. Scientific Committee on Problems of the Environment, Programme on Ecosystem Function of Biodiversity. Nassau, Bahamas, Oct. 7-11, 1993.

### **Committees and Service**

#### *Department and University*

2005-2006 – Executive Committee; Graduate Committee, Greenhouse Committee (Chair), Dept. of Biology, WWU

2003-2004 - Executive Committee, Dept. of Biology, WWU.

April, 2004 – helped lead a tour of riparian restoration sites for WWU's Environmental Journalist program.

2001-2003 - Chair, Biology Department Library Committee, Western Washington University

Spring 2003 – Organized Biology Department student poster session for Scholar's Week.

2002-2003 - Undergraduate Advising Committee, Dept. of Biology

2002-2003 – Scholar's Academy, WWU. Provide mentorship for freshmen whose past accomplishments indicate promising academic careers.

1999-2003 - Seminar Committee, Biology Department, Western Washington University

2001-2003 - Participant in the Teaching and Learning Academy (TLA) to discuss the General Education reform at Western. Participant in the Creativity Dialogue Group during Fall 2001.

2001-2002 – Biology Dept. representative for the Integrated Laboratory Network (ILN) initiative, Bill Wilson (Chemistry, Scientific Technical Services), organizer.

2000-2001 - Organized "Ecolunch", an informal seminar series for all faculty and graduate students in ecology at Western, with participants from Mathematics, Biology, Huxley College, and Fairhaven College.

2000-2003 - Organized a web page, linked to the Biology Department home page, for student jobs in ecology and environmental biology. <http://fire.biol.wwu.edu/hooper/ecojobs.html>

#### *Profession*

Co-chair, with Dr. Peter Vitousek (Stanford University), of a consensus committee on Biodiversity and Ecosystem Functioning for the Ecological Society of America.

Reviewer for proposals from the National Science Foundation, Nebraska Experimental Program to Stimulate Competitive Research (EPSCoR), and the National Research Council.

Reviewer for papers from Canadian Journal of Botany, Conservation Biology (*ad hoc* Editor), Ecology, Ecology Letters, Journal of Vegetation Science, Nature, PNAS, Oecologia, Oikos, and Science.

Reviewer for book chapters for Smith and Smith, *Ecology and Field Biology*, (Benjamin Cummings); Gurevitch, Scheiner, and Fox, *Plant Ecology*; and Inchausti, Loreau, and Naeem, *Biodiversity and ecosystem functioning: synthesis and perspectives*.

*Community*

2005-present – Science Advisor, National Agri-Environmental Standards Initiative (NAESI), Environment Canada.

2006 – Article on “10 Things You Can Do To Help Preserve Species Biodiversity” for Canfei Nesharim (“Wings of the Eagle”), an environmental newsletter for Orthodox Jews. (<http://canfeinesharim.org/newsletter.shtml#3>)

Dec. 1999 - present. Board of Directors, Nooksack Salmon Enhancement Association, Bellingham, Washington. Secretary of the Board for 2001 and 2002.

**Previous Work Experience**

1987-1989: Research assistant investigating the flux of trace sulfur gases from forest soils, under Dr. J. Melillo and Mr. Paul Steudler, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543.

1984-1985: Intern in environmental and public policy conflict mediation. Researched environmental policy alternatives, edited manuscripts, and taught environmental education to school groups and Elder Hostel, under Mr. John Ehrmann, The Keystone Center, Keystone, Colorado 80435.

**Professional Societies**

American Association for the Advancement of Science

American Geophysical Union

Ecological Society of America