

# Jason G. Hamilton

## Curriculum Vitae

Department of Environmental Studies and Science  
Ithaca College  
Ithaca, NY 14850

Phone: (607) 274-1439  
FAX: (607) 274-1131  
jhamilton@ithaca.edu

### EDUCATION

Ph.D University of California, Santa Barbara, CA	Plant Ecology	1997
M.A University of California, Santa Barbara, CA	Plant Ecology	1993
Ph.D University of California, Santa Barbara, CA	Physical Chemistry	1991
M.A University of California, Santa Barbara, CA	Physical Chemistry	1987
B.A Grinnell College, Grinnell, IA	Chemistry	1985

### FELLOWSHIPS AND AWARDS

Level II Merit, Ithaca College Humanities & Sciences, 2008  
Richard B. Fischer Environmental Conservation Award (awarded to Ithaca College Natural Lands Committee), 2008  
Co-recipient Dean's Group Award, Ithaca College Humanities & Sciences, 2005  
Level II Merit, Ithaca College Humanities & Sciences, 2005  
Level II Merit, Ithaca College Humanities & Sciences, 2004  
Level II Merit, Ithaca College Humanities & Sciences, 2002  
U.C. Santa Barbara Departmental Regents Fellowship, 1997  
U.C. Santa Barbara General Affiliates Dissertation Fellowship, 1997  
Vernon I. Cheadle Graduate Research Award (U.C. Santa Barbara), 1995  
Inducted as lifetime member of Phi Lambda Upsilon (national chemistry honorary society), 1990  
University of California Regents Fellowship, 1985

### POSITIONS

9/07 – present	Associate Professor, Dept. of Environmental Studies and Sciences, Ithaca College, Ithaca, NY.
8/07 – 8/09	Associate Professor, Dept. of Biology, Ithaca College, Ithaca, NY.
8/01 – 7/07	Assistant Professor, Dept. of Biology, Ithaca College, Ithaca, NY.
8/98 – 8/01	Post-doctoral Research Associate, Dept. of Plant Biology, University of Illinois, Urbana, IL.
3/92 – 8/98	Adjunct Faculty Member, Antioch University, Santa Barbara, CA.
9/88 - 9/91; 9/96 - 12/97	Educational Consultant, University of California, Santa Barbara, CA.
9/91 - 6/92	Assistant Director of TA Training, University of California, Santa Barbara, CA.
6/88 - 8/88	Associate Lecturer, Dept. of Chemistry, University of California, Santa Barbara, CA.

## COURSES TAUGHT

- Environmental Sentinels
- Ecophysiology
- Environmental Science II
- Environmental Studies Capstone Seminar
- General Ecology
- Introduction to Environmental Research
- Literature in Biology
- Natural Resources Ecology
- Principles of Biology Laboratory
- Projects in Sustainability
- Research in Biology
- We've Got Issues: FLEFF mini-course

## GRANTS

Ithaca College Integrative Curriculum initiative "Integration-Insight-Creativity-Character (ICC)". Co-PI with G. Rowland & others. 2009-2012. \$44,000.

National Science Foundation "Multi-disciplinary Sustainability Modules: Integrating STEM Courses". Co-PI with T. Pfaff, A. Erkan, & M. Rogers. 2009-2012. \$149,000.

HSBC Bank "The Commitment to Change: Ithaca Colleges Environmental and Sustainability Model", Co-recipient with Susan Allen-Gil. 2008. \$500,000.

Environmental Protection Agency "Multi-faceted sustainability on Ithaca College natural lands", Co-PI with J.L. Confer, R. Porter, S. Swensen, P. Melcher, C. Wheatley. 2004. \$10,000 + \$10,000 in matching funds.

National Science Foundation "Applying Science to Sustainability"- Summer Curriculum Development Grant. 2003. \$1000.

National Science Foundation "Herbivory and photosynthesis of oaks under elevated atmospheric CO<sub>2</sub>". Co-PI with E.H. DeLucia, A.R. Crofts, M.R. Berenbaum, and A.R. Zangerl. 2003-2005. \$587,000.

USDA National Research Initiative "Effects of CO<sub>2</sub> and ozone on herbivory in soybeans". Co-PI with E.H. DeLucia, A.R. Crofts, M.R. Berenbaum, and A.R. Zangerl. 2002-2004. \$200,000.

Ithaca College summer faculty research grant "Effects of carbon dioxide and ozone on plant-insect interactions. 2002. \$3350.

NSF Major research instrumentation grant. "Acquisition of microscopy core facility for biological research. J.C. Hardwick, Hamilton, J.G., Servetnick, M.D., Smith, A.M. 2001. \$78,643.

University of Illinois Critical Research Initiatives: "Functional consequences of herbivory for plant production." Co-PI with M.R. Berenbaum, A.R. Crofts, E.H. DeLucia, A.R. Zangler, and R.E. Zielinski. 1999-2001. \$190,000

Mildred E. Mathias Student Research Grant: "Life-stage related interference between native perennial grasses and non-native annual grasses." 1995. \$2000

California Native Plant Society Doc Burr Graduate Research Grant: "Temperature effects on growth of native perennial grasses and non-native annual grasses in Californian grasslands." 1994. \$1000

## PUBLICATIONS

- McElrone A.J., **J.G. Hamilton**, A.J. Krafnick, M. Aldea, R.G. Knepp, & E.H. DeLucia. Combined effects of elevated CO<sub>2</sub> and natural climatic variation on leafspot diseases of redbud and sweetgum trees. *Environmental Pollution*, IN PRESS.
- Hamilton, J.G.** 2008. Global Change and Invasive Species: The Demonic Duo. *American Entomologist* 54:100-102.
- Knepp, R.G., **J.G. Hamilton**, A.R. Zangerl, M. R. Berenbaum, and E.H. DeLucia. 2007. Foliage of Oaks Grown under Elevated CO<sub>2</sub> Reduces Performance of *Antheraea polyphemus* (Lepidoptera: Saturniidae). *Environmental Entomology*. 36:609-617.
- Moore, D. J., S. Aref, R.M. Ho, J.S. Phippen, **J.G. Hamilton**, , and E.H. DeLucia. 2006. Inter-annual variation in the response of *Pinus taeda* tree growth to long term Free Air Carbon dioxide Enrichment (FACE). *Global Change Biology*. 12:1367-1377.
- Aldea, M., **J.G. Hamilton**; J. Resti, A.R. Zangerl, M.R. Berenbaum, T. Frank, E.G. DeLucia. 2006. Comparison of photosynthetic damage from arthropod herbivory and pathogen infection in understory hardwood saplings. *Oecologia*. 129:221-232.
- Ort,D.R., E.A. Ainsworth, M. Aldea, D.J. Allen, C.J. Bernacchi, M.R. Berenbaum, G.A. Bollero, G. Cornic, P.A. Davey, O. Dermody, F.G. Dohleman, **J.G. Hamilton**, E.A. Heaton, A.D.B. Leakey, J. Mahoney, T.A. Mies, P.B. Morgan, R.L. Nelson, A. Rogers, A.R. Zangerl, X-G. Zhu, E.H. DeLucia, and S.P. Long. 2006. SoyFACE: The effects and interactions of elevated [CO<sub>2</sub>] and [O<sub>3</sub>] on soybean. *In Nösberger, J. et al*, "Managed ecosystems and CO<sub>2</sub>: case studies, processes and perspectives". Springer Verlag.
- Lawless, L., M. Wood, & J.G. Hamilton. 2005. A method for measuring dietary similarities and its application to the process of dietary acculturation. *Proceedings of the Nutrition Society of New Zealand*. 30:108-114.
- Knepp, R.G., **J.G. Hamilton**, J.E. Mohan, A.R. Zangerl, M.R. Berenbaum, and E.H. DeLucia. 2005. Elevated CO<sub>2</sub> reduces leaf damage by insect herbivores in a forest community. *New Phytologist*. 167:207-218
- Hamilton, J.G.**, O. Dermody, M. Aldea, A.R. Zangerl, A. Rogers, M.R. Berenbaum, and E.H. DeLucia. 2005. Anthropogenic changes in tropospheric composition increase susceptibility of soybean to insect herbivory. *Environmental Entomology*. 34:479-485.
- Aldea, M., **J.G. Hamilton**, J.R. Resti, A.R. Zangerl, M.R. Berenbaum and E.H. DeLucia. 2005. Indirect Effects of Insect Herbivory on Leaf Gas Exchange in Soybean. *Plant, Cell and Environment*. 28:402-411.
- DeLucia, E.H., D.J. Moore, **J.G. Hamilton**, R.B. Thomas, C.J. Springer, and R.J. Norby. 2005. The changing role of forests in the global carbon cycle: Responding to elevated carbon dioxide in the atmosphere. *In*, Lal, R., J. Duxbury, B.A. Stewart, and D.O. Hansen, *Climatic Change and Global Food Security*. Marcel Dekker.
- Hamilton, J.G.**, A.R. Zangerl, M.R. Berenbaum, J. Phippen, M. Aldea, and E.H. DeLucia. 2004. Insect herbivory in an intact forest understory under experimental CO<sub>2</sub> enrichment. *Oecologia*. 138:566-573.
- George, K., R.J. Norby, **J.G. Hamilton** and E.H. DeLucia. 2003. Fine-root respiration in a loblolly pine and sweetgum forest growing in elevated CO<sub>2</sub>. *New Phytologist*. 160:511-522.
- Schenk, H.J., C. Holzapfel, **J.G. Hamilton** and B.E. Mahall. 2003. Spatial ecology of a small desert shrub on adjacent geological substrates. *Journal of Ecology*. 91:383-395.
- Hamilton, J.G.**, J.R. Griffin, and M.R. Stromberg. 2002. Long-term population dynamics of native *Nassella* bunchgrasses in central California. *Madrono*. 49:274-284.

- Nitao, J.K., A.R. Zangerl, M.R. Berenbaum, and **J.G. Hamilton**. 2002. CNB: requiescat in pace? *Oikos*. 98:540-546.
- DeLucia, E.H., K. George and **J. G. Hamilton**. 2002. Radiation use efficiency of a forest exposed to elevated levels of atmospheric carbon dioxide. *Tree Physiology*. 22:1003-1010.
- Finzi, A.C., E.H. DeLucia, **J.G. Hamilton**, D.D. Richter, and W.H. Schlesinger. 2002. The nitrogen budget of a pine forest under free air CO<sub>2</sub> enrichment. *Oecologia*. 132:567-578.
- Hamilton, J.G.**, E. H. DeLucia, K. George, S. L. Naidu, A. C. Finzi, and W. H. Schlesinger. 2002. Forest carbon balance under elevated CO<sub>2</sub>. *Oecologia*. 131:250-260.
- Zangerl, A.R., **J.G. Hamilton**, T.J. Miller, A.R. Crofts, K. Oxborough, M.R. Berenbaum, and E.H. DeLucia. 2002. Impact of folivory on photosynthesis is greater than the sum of its holes. *Proceedings of the National Academy of Sciences*. 99:1088-1091.
- Hamilton, J.G.**, R. B. Thomas, and E.H. DeLucia. 2001. Direct and indirect effects of elevated CO<sub>2</sub> on leaf respiration in a forest ecosystem. *Plant, Cell and Environment*. 24:975-982.
- Hamilton, J.G.**, A.R. Zangerl, E.H. DeLucia, and M.R. Berenbaum. 2001. The carbon nutrient balance hypothesis: Its rise and fall. *Ecology Letters*. 4:86-95.
- Hamilton, J.G.**, C. Holzapfel, and B.E. Mahall. 1999. Coexistence and interference between a native perennial grass and non-native annual grasses in California. *Oecologia*. 121:518-526.
- DeLucia, E.H., **J.G. Hamilton**, S.L. Naidu, R.B. Thomas, J.A. Andrews, A. Finzi, M. Lavine, R. Matamala, J.E. Mohan, G.R. Hendrey, and W.H. Schlesinger. 1999. Net primary production of a forest ecosystem with experimental CO<sub>2</sub> enrichment. *Science*. 284:1177-1179.
- Hamilton, J.G.** 1997. Changing perceptions of pre-European grasslands in California. *Madrono*. 44:311-333.
- Hamilton, J.G.** 1997. Environmental and biotic factors affecting the occurrence of the native bunchgrass *Nassella pulchra* in California grasslands. Ph.D. Dissertation. University of California, Santa Barbara.
- Hamilton, J. G.** and W. E. Palke. 1993. Bonding in Cyclopropane. *J. Am. Chem. Soc.* 115:4159-4164.
- Hamilton, J.G.** 1991. Development of a steepest descents optimization scheme for a perfect pairing valence bond wave function. Ph.D. Dissertation. University of California, Santa Barbara.

## POPULAR PRESS

- Borgella, R. & **J.G. Hamilton**. Global Warming is no Longer Debatable. *The Ithacan*. Thursday February 8<sup>th</sup> 2007.
- Hamilton, J.G.** 2005. Katrina and Global Warming. *Ithaca College Quarterly*. 4:48

## SUSTAINABILITY CONSULTING & WORKSHOPS

- Finger Lakes Project Workshop: Infusing Sustainability Into the Curriculum, Ithaca, NY. May 20-22, 2009
- New Roots Charter High School faculty development training in sustainability and integrated curriculum. June 2009.
- Gimme! Coffee, Ithaca, NY. January 2007 – Present
- Finger Lakes Project, Faculty Development Training, Ithaca, NY. 2006 - 2008.
- University of Rochester, Rochester, NY. September 3, 2008.
- California State University, Fullerton. November 5, 6 2007.
- US Department of State NIC Study Group on Strategic Reactions to American Unipolarity: Geopolitical Implications of Global Warming, Carnegie Endowment for International Peace, Washington D.C. Friday April 13, 2007.
- Infusing Sustainability into Higher Education. American Conference of Academic Deans Annual Conference (pre-conference workshop), New Orleans, LA, Wednesday, January 17, 2007.

## INVITED PRESENTATIONS

Drake, T., J. Jordan, J.G. Hamilton. Building Strong Ropes to Nature. Finger Lakes Bioneers Conference. Ithaca, NY. October 16-18, 2009.

Hamilton, J.G. Sustain This!: Total Immersion in Sustainability Science and Education. Dept. of Biology Fall Seminar Series. Ithaca College, Ithaca, NY. September 17, 2009.

Hamilton, J.G. T. Pfaff, A. Erkan, M. Rogers. Multidisciplinary Sustainability Modules: Integrating STEM Courses. Dept. of Physics Fall Seminar Series. Ithaca College, Ithaca, NY. September 15, 2009.

Hamilton, J.G. Talking About Sustainability at Ithaca College. Staff Training, Office of Admissions. Ithaca College, Ithaca, NY. July 30, 2009.

Hamilton, J.G. What Is Sustainability and Where Did It Come From? Invited Seminar, Academic Enrichment Services/Office of Multicultural Affairs Summer Institute. Ithaca College, Ithaca, NY. July 14, 2009.

Pfaff, T., J.G. Hamilton, A. Erkan, M. Rogers. Can You Have Social Justice if Your Village is Under Water?. Invited seminar, Developing a Good Heart in STEM: The 1st Summit on Incorporating Social Justice and Service-Learning into the STEM Curriculum, Ithaca College, Ithaca, NY. June 13, 2009.

Hamilton, J.G. Global Envisioning a Sustainable Future. Invited seminar, Network of Spiritual Progressives and Keuka College Students for Peace, Keuka College, Keuka, NY. April 30, 2009.

Hamilton, J.G. Global Earth Day panel presentation. Sponsored by Campus Greens. Hobart and William Smith Colleges, Geneva, NY. April 20, 2009.

Hamilton, J.G. Global Climate Instability: What do we know and why does it matter? Peace Studies Program invited seminar, Cornell University, Ithaca, NY. December 4, 2008.

Hamilton, J.G. Sustainability: What is it and where did it come from?, Invited Seminar, *Show me the Green! Sustainability in student affairs*. College Student Personnel Association of New York annual conference, November 24, 2008.

Hamilton, J.G. What is Sustainability and where did it come from?, Keynote Seminar, Ithaca Seminar Program. November 21, 2008.

Hamilton, J.G. Just what is Sustainability? Invited Seminar, Associate Deans, Ithaca College. November 20, 2008.

- Hamilton, J.G. Going Green, presentation and panel discussion, Sports Turf Managers of New York annual conference, Syracuse, NY. November 13, 2008.
- Hamilton, J.G. Sustainability – Growing Sustainability at Ithaca College, Invited Seminar, St. Bonaventure University, St. Bonaventure, NY. October 30, 2008.
- Hamilton, J.G. Sustainability – Problems and Solutions, Invited Seminar, St. Bonaventure University, St. Bonaventure, NY. October 30, 2008.
- Hamilton, J.G. The quest for a sustainable world, Sage Wednesdays Seminar Series, Cornell University, Ithaca, NY. October 1, 2008.
- Hamilton, J.G. What is Sustainability and where did it come from?, Keynote Seminar, Ithaca Seminar Program. September 24, 2008.
- Hamilton, J.G. What is Sustainability and where did it come from?, Keynote Seminar, Ithaca College Academic Enrichment Office Summer Institute, July 17, 2008.
- Hamilton, J.G. Envisioning a Sustainable Future: A Leadership Role for Higher Education. Faculty Development Seminar, Onandaga Community College, Syracuse, NY. May 19, 2008.
- Hamilton, J.G. Envisioning a Sustainable Future: A New Role For Scientists. Plenary Talk, Northeast Regional Sigma Xi, Conference, Cornell University, Ithaca, NY. April 19, 2008.
- Hamilton, J.G. Envisioning a Sustainable Future: A Leadership Role for Higher Education. Keynote Seminar, Focus the Nation Program, Rockland Community College, Suffern, NY. February 7, 2008.
- Hamilton, J.G. Earth: Mission Status Briefing. State of the Planet Series, Cornell University, Ithaca, NY, Wednesday January 23, 2008.
- Hamilton, J.G. Global change and invasive species: The demonic duo. Invited Symposium Presentation. Conservation of Insects: Current Status, Future Directions, and an Expanded Role for the Entomological Society. Entomological Society of America Annual Meeting. San Diego, CA Dec. 9-12, 2007.
- Hamilton, J.G. The Earth: Mission Status Briefing. Guest Presentation, Evolution, Ithaca College, Ithaca NY. Nov. 8, 2007.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Faculty Keynote Address, Family Weekend, Ithaca College, Ithaca, NY. Nov. 2, 2007
- Hamilton, J.G. Envisioning Our Future: A Leadership Role for Higher Education, Ithaca College, and You Keynote Seminar, Ithaca Seminar Program. October 22 & 23, 2007.
- Hamilton, J.G. The Earth: Mission Status Briefing. Guest Presentation, Alternative Futures, Ithaca College, Ithaca NY. September, 27, 2007.
- Hamilton, J.G. The Earth: Mission Status Briefing. Dept. of Chemistry, Ithaca College, Ithaca, NY. Thursday, Sept. 20, 2007.
- Hamilton, J.G. Creepy Crawlies: Arthropod evolution and adaptation. Guest Presentation, Insects and People, Ithaca College, Ithaca NY, September, 2007.
- Hamilton, J.G. Envisioning a Sustainable Future: A Leadership Role for Higher Education. Wells College Summer Faculty Retreat, Wells College, Aurora, NY. Monday, Aug 20, 2007.
- Hamilton, J.G. Ithaca College, Higher Education and Sustainability: A call to action. Division of Student Affairs and Residential Life Summer Staff Development Workshop, Ithaca College, Ithaca, NY, Wednesday, Aug 1, 2007.

- Hamilton, J.G. Opening remarks on sustainability. Summer Institute, Office of Multicultural Affairs, Ithaca College, Ithaca, NY, Monday, July 23, 2007.
- Hamilton, J.G. & Rachel May. Examining the relationships between environmental studies and campus sustainability efforts. Second Environmental Studies Summit, Syracuse University, Syracuse, NY, Saturday June 7-10, 2007
- Hamilton, J.G., M. Rogers & S. Swensen. Ithaca College, Higher Education and Sustainability: A call to action. Ithaca College Office of Admissions, Ithaca College, Ithaca, NY, Thursday, May 3, 2007
- Hamilton, J.G., M. Rogers & S. Swensen. Ithaca College, Higher Education and Sustainability: A call to action. Ithaca College Faculty Council, Ithaca College, Ithaca, NY, Tuesday, May 1, 2007
- Hamilton, J.G. Global Change – Gimme! and Sustainability. Gimme! Coffee Company, Ithaca NY, Thursday, April 26, 2007
- Hamilton, J.G., M. Rogers & S. Swensen. The Earth: Mission Status Briefing. Dept. of Chemistry, Ithaca College, Ithaca, NY, Tuesday April 24, 2007
- Hamilton, J.G., M. Rogers & S. Swensen. Growing Sustainability at Ithaca College. Office of Media Relations, Ithaca College, Ithaca, NY, Friday March 16, 2007.
- Hamilton, J.G., M. Rogers & S. Swensen. Earth: Mission Status Briefing. Biology Seminar Series, Ithaca College, Ithaca, NY, Thursday February 8, 2007.
- Hamilton, J.G., M. Rogers & S. Swensen. Earth: Mission Status Briefing. Admission Communication Task Force, Ithaca College, Ithaca, NY, Friday February 2, 2007.
- Hamilton, J.G. & M. Rogers. Earth: Mission Status Briefing. State of the Planet Series, Cornell University, Ithaca, NY, Wednesday January 24, 2007.
- Hamilton, J.G. Sustainability: Mission Status Briefing. Division of Student Affairs and Residential Life Winter Staff Development Workshop, Ithaca College, Ithaca, NY, Wednesday, January 10, 2007.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Faculty Keynote Address, Family Weekend, Ithaca College, Ithaca, NY, Friday, October 27, 2006.
- Hamilton, J.G. The Community-Owned wind farms – How about Connecticut Hill?. Panel Discussion, with Tompkins Renewable Energy Education Alliance Ithaca College, Ithaca, NY, Wednesday, October 25, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Campus Sustainability day, Ithaca College, Ithaca, NY, Wednesday, October 25, 2006.
- Hamilton, J.G. Plant-Insect Interactions in a High CO<sub>2</sub> World: Ripple Effects Across Scales of Integration. Institute for Ecosystem Studies Seminar Series, Milbrook, NY, October 20, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Guest Seminar, Topics in Chemistry and Biochemistry, Ithaca College, Ithaca, NY, Thursday, September 14, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Staff training workshop, Student Affairs and Campus Life, Ithaca College, Ithaca, NY, Wednesday, September 6, 2006.
- Hamilton, J.G. Opening remarks on sustainability. Summer Institute, Office of Multicultural Affairs, Ithaca College, Ithaca, NY, Wednesday, July 26, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Featured Speaker, Association of College and University Housing Officers – International (acuho-i) Annual Meeting, Atlanta GA, Sunday, June 25, 2006.

- Hamilton, J.G. The potential impact of global change on insect populations. Guest Seminar, Dept. of Entomology, Cornell University, Monday, March 6, 2006.
- Hamilton, J.G. The quest for a sustainable world -- and how that involves us. Guest Seminar, Dept. of Mathematics, Ithaca College, Ithaca NY, Monday, November 7, 2005.
- Hamilton, J.G. Global Warming: History, Facts and Perceptions. Invited Workshop Presentation. New York State Outdoor Education Association Annual Meeting, Ithaca NY, Friday, October 7, 2005.
- Hamilton, J.G. Plant-Insect Interactions in a High CO<sub>2</sub> World: Ripple Effects Across Scales of Integration. Biogeochemistry and Environmental Biocomplexity Seminar Series, Cornell University, March 4, 2005.
- Hamilton, J.G. Global Warming: Fact and Fiction. Ithaca College, Dept. of Physics, March 3, 2005.
- Hamilton, J.G. Why Sustainability? Center for Natural Sciences Sustainability Group Seminar Series. March 1, 2005, Ithaca College.
- Hamilton, J.G. Sustainability and Higher Education. Plenary Presentation at the Ithaca College Regional Sustainability Summit, February 26, 2005.
- Hamilton, J.G. Herbivory in a high CO<sub>2</sub> world. Rutgers University, Dept. of Biology, November 16, 2004.
- Hamilton, J.G. Science and the Human Prospect: A New Social Contract for Science. Ithaca College, Dept. of Biology, November 11, 2004.
- Hamilton, J.G. Herbivory and crop losses in a high CO<sub>2</sub> world. Wells College, Dept. of Biology. October 24, 2003.
- Direct and Indirect Human Contributions to Terrestrial Greenhouse Gas Fluxes. (Session moderator) September 23-25, National Academies, Washington, DC. Sponsored by Board on Agriculture and Natural Resources, National Academies of Science.
- Hamilton, J.G. Herbivory and crop losses in a high CO<sub>2</sub> world. Syracuse University, Dept. of Biology. February 21, 2003.
- Hamilton, J.G. Crop losses in a high CO<sub>2</sub> world. Cornell University Dept. of Horticulture. February 13, 2003.
- Forest FACE Workshop, Durham NH. (Invited participant) May 1-5, 2002. Sponsored by Oak Ridge National Laboratory.
- Hamilton, J.G. The history of grazing in California and its effect on grassland vegetation. Presented at the Grazing Ecology of Santa Barbara County Conference, September 10, 1994, Gaviota, CA.

## CONFERENCE PRESENTATIONS

- Davis, P., A. Chesney, J.G. Hamilton and S.M. Swensen. Ithaca College's Greenhouse Gas Emissions Inventory: A Piece of the Sustainability Pie. Presented at Association for the Advancement of Sustainability in Higher Education, November 9-11 2008, Raleigh, NC.
- Swensen, S.M. & J.G. Hamilton. Ithaca College's Finger Lakes Project: Education for Sustainability. Presented at Association for the Advancement of Sustainability in Higher Education, November 9-11 2008, Raleigh, NC.
- Swensen, S.M. & J.G. Hamilton. Exploring Positive Growth: The Sustainability Initiative at Ithaca College – The Finger Lakes Project. 2007. Presented at Extending Connections: Greening of the Campus VII, September 6-8, 2007, Muncie Indiana.
- Hamilton, J.G. and S.M. Swensen, 2006. Broadening Participation in Sustainability. Association for the Advancement of Sustainability in Higher Education, Thursday, October 5-8 2006, University of Arizona, Tempe, AZ.
- Hamilton, J.G., J. Sparks, A. Gattis, L. Elich, V. Woodring, A.R. Zangerl, M.R. Berenbaum, & E.H. DeLucia. 2006. Elevated atmospheric CO<sub>2</sub> alters trophic interactions among web-building spiders, insects and plants: A stable isotope analysis. Presented at the Ecological Society of America Conference, August 6-11, 2006, Memphis, TN.
- Swensen, S.M., J.G. Hamilton. 2005. One Building at a Time: Ithaca College's CNS Sustainability Group. Presented at Extending Connections: Greening of the Campus VI, September 15-17, 2005, Muncie Indiana.
- Allen-Gil, S., J.G. Hamilton, G. Thomas, L. Walker, E. Shapiro. 2005. 3-D Sustainability: Curricular Demonstration Projects at Ithaca College. Presented at Extending Connections: Greening of the Campus VI, September 15-17, 2005, Muncie, Indiana.
- Hamilton, J.G., M. Aldea, M., J.P. Resti, A.R. Zangerl, M.R. Berenbaum, T.D. Frank, and E.H DeLucia, 2005. Indirect effects of biotic damage on photosynthesis in a forest understory Presented at the Ecological Society of America Conference, August 7-12, 2005, Montreal, Canada.
- Aldea, M., J.G. Hamilton, J.P. Resti, A.R. Zangerl, M.R. Berenbaum, T.D. Frank, and E.H DeLucia, 2005. Indirect effects of biotic damage on photosynthesis in a forest understory Presented at the American Society of Plant Biology Conference, July 16-20, 2005, Seattle, Washington.
- DeLucia, E.H., O. Dermody, B. O'Neill, M. Aldea, J.G. Hamilton, A.R. Zangerl, A. Rogers and M.R. Berenbaum. 2005. Influence of elevated ozone and carbon dioxide on insect densities. Proceedings of the Illinois Crop Protection Conference. pp 13-15, University of Illinois Extension, College of Agriculture, Consumer and Environmental Science.
- Thomas, G., J.G. Hamilton, S. Allen-Gil, L. Walker, E. Shapiro. Towards Sustainability as "Second Nature" at Ithaca College: The Multiplier Effect of an NSF Curriculum Development Grant. Presented at the Education for Sustainability West's Sustainability and Higher Education Conference "Defining the Vision for Higher Education", October 21- 23, 2004, Portland, OR.
- Dermody, O., J.G. Hamilton, S. Long, and E.H. DeLucia. Direct and indirect effects of CO<sub>2</sub> and O<sub>3</sub> on soybean canopies. Presented at the Ecological society of America Annual Meeting, August 1-6 2004, Portland, OR.
- Aldea, M, J.G. Hamilton, E.H. DeLucia. The Hidden Face of Soybean Herbivory Exposed. Presented at the Ecological society of America Annual Meeting, August 1-6 2004, Portland, OR.
- DeLucia E.H, D.J. Moore, J.G. Hamilton, A. Finzi, J. Pippen, W.H. Schlesinger, R.J. Norby. The Changing Role of Forests in the Global Carbon Cycle: Responses to Elevated Atmospheric CO<sub>2</sub>. Presented at the American Geophysical Union Fall Meeting, December 8 -12 2003, San Francisco, CA.

- Moore, D.J., S. Aref, A. Finzi, J. Hamilton, J. Pippen, M. Ho, and E.H. DeLucia. Inter-annual variation in the response of tree growth and productivity to exposure to elevated CO<sub>2</sub>. Presented at the Ecological Society of America Annual Meeting, August 4-8, 2003, Savannah, Georgia.
- Knepp, R.G., J.G. Hamilton, and E.H. DeLucia. Insect herbivory in a forest community exposed to free-air CO<sub>2</sub> enrichment. Presented at the Ecological Society of America Annual Meeting, August 4-8, 2003, Savannah, Georgia.
- Hamilton, J.G., O. Dermody, M. Aldea, A.R. Zangerl, M.R. Berenbaum, A. Rogers, and E.H. DeLucia. Elevated atmospheric carbon dioxide affects crop herbivory by insects. Presented at the Ecological Society of America Annual Meeting, August 4-8, 2003, Savannah, Georgia.
- Tang, J., R. Zielinski, A. Zangerl, T. Miller, A. Crofts, K. Oxborough, J. Hamilton, M. Berenbaum, and E. DeLucia. Fluorimeter studies on the effect of herbivory on photosynthesis and rubisco gene expression. Presented at the Ecological Society of America Annual Meeting, August 4-9, 2002, Tucson, Arizona.
- Knepp, R., Hamilton, J., DeLucia, E.H. Plant-insect interactions in a forest community exposed to free-air CO<sub>2</sub> enrichment. Presented at the Ecological Society of America Annual Meeting, August 4-9, 2002, Tucson, Arizona.
- Hamilton, J.G., T.J. Miller, A.R. Crofts, K. Oxborough, and E.H. DeLucia. Photosynthetic performance of remaining leaf tissue after folivory. Presented at the Ecological Society of America Annual Meeting, August 5-10, 2001, Madison, Wisconsin.
- DeLucia, E.H., J.G. Hamilton, W. H. Schlesinger. Manipulative experiments to understand forest productivity under elevated atmospheric CO<sub>2</sub>. Presented at the Ecological Society of America Annual Meeting, August 5-10 August 5-10, 2001, Madison, Wisconsin.
- Hamilton, J.G., A.R. Zangerl, M.R. Berenbaum, E.H. DeLucia. Insect herbivory in an intact forest understory under experimental CO<sub>2</sub> enrichment. Presented at the Ecological Society of America Annual Meeting, August 6-10, 2000, Snowbird, Utah.
- DeLucia E.H., M.R. Berenbaum, A.R. Crofts, J.G. Hamilton, T.J. Miller, K. Oxborough, A.R. Zangerl, R.E. Zielinski. Chemical and photosynthetic responses of plants to insect herbivory. Presented at the Integrative Photosynthesis Training Grant Annual Photosynthesis Symposium, March 4-5, 2000, Allerton, Illinois.
- Hamilton, J. G., E. H. DeLucia, G. R. Hendry and W. H. Schlesinger. Net primary production of a forest ecosystem under experimental CO<sub>2</sub> enrichment. Presented at the Ecological Society of America Annual Meeting, August 8-12, 1999, Spokane, Washington.
- Thomas, R. B, J. G. Hamilton and E. H. DeLucia. Photosynthesis versus nitrogen relationships for five understory and two canopy tree species growing under elevated atmospheric carbon dioxide. Presented at the Ecological Society of America Annual Meeting, August 8-12, 1999, Spokane, Washington.
- Hamilton, J.G., C. Holzapfel, and B.E. Mahall. Life-stage related interference between a native perennial grass and non-native annual competitors. Presented at the Ecological Society of America Annual Meeting, August 10-14, 1997, Albuquerque, New Mexico.
- Hamilton, J.G. and B.E. Mahall. Temperature effects on growth and allocation in competing grass species: Do exotic annuals always outgrow native perennials? Presented at the Ecological Society of America Annual Combined Meeting, August 10-14, 1996, Providence, RI.
- Mahall, B.E., J.G. Hamilton, H.J. Schenk, and A. Stewart-Oaten. The structure of simple *Larrea* dominated communities in southwestern deserts of North America. Presented at the Ecological Society of America Annual Combined Meeting, August 10-14, 1996, Providence, RI.
- Schenk, H.J., C. Holzapfel, J.G. Hamilton, and B.E. Mahall. Spatial patterns in desert plant communities: The ghosts of facilitation past and of competition yet to come. Presented at the Ecological Society of America Annual Combined Meeting, August 10-14, 1996, Providence, RI.

- Hamilton, J.G. Temperature effects on the growth of California grasses: Do exotic annuals always outgrow native perennials? Presented at the California Botanical Society 16th Graduate Student Meetings, February 24, 1996, Rancho Santa Ana Botanic Garden, Claremont, CA.
- Hamilton, J. G. and D. B. Botkin. Preliminary report on development of a carbon cycle model of the Biosphere II closed ecological system. Presented at the Third International Workshop on Closed Ecological Systems, April 24-27, 1992, Oracle, AZ.
- Botkin, D. B. and J. G. Hamilton. The role of engineered ecosystems in ecological research. Presented at the International Conference on Life Support and Biospherics, February 18-20, 1992, Huntsville, AL.

## STUDENT PRESENTATIONS

- Shapiro, K., C. Tonks. 2009. Maple Syrup Production on South Hill. James J. Whalen Academic Symposium. April 16, 2009. Ithaca College.
- Herits, Brittany. 2006. Carbon metabolism of a local coffee company. James J. Whalen Academic Symposium. April 3, 2006. Ithaca College.
- Viggiano, Justin. 2006. Reducing solid waste with a local coffee company. James J. Whalen Academic Symposium. April 3, 2006. Ithaca College.
- Weck, Rebekah. 2006. Effects of global warming on animal reproduction. James J. Whalen Academic Symposium. April 3, 2006. Ithaca College.
- Gattis, Adam. 2006. Elevated atmospheric CO<sub>2</sub> alters trophic interactions among web-building spiders, insects and plants: A stable isotope analysis. Eastern Colleges Science Conference (ECSC). April 21-22, 2006, St. Joseph's University.
- Resti, Joe. 2005. Indirect effects of biotic damage on photosynthesis in a forest understory. Eastern Colleges Science Conference (ECSC). April 8-9, 2005, Central Connecticut State University.
- Santoriello, Anthony. 2005. Efficacy in Environmental Reform. James J. Whalen Academic Symposium. April 6, 2005. Ithaca College
- Resti, Joe. The Effects of Simulated Herbivory on Soybean Leaf Function. James J. Whalen Academic Symposium. March 22, 2004, Ithaca College, NY.
- Resti, Joe. The Effects of Simulated Herbivory on Soybean Leaf Function. Eastern Colleges Science Conference (ECSC). April 2-3, 2004, Manhattan College, NY.
- Gwinn, Liz., Jenn Chen, James Walker. 2005. Biodiversity management on Ithaca College lands. 1<sup>st</sup> annual campus sustainability day conference. October 26, 2005. Ithaca College.
- Aldea, Mihai., J.G. Hamilton and E.H. DeLucia. Altered atmospheric composition increases insect damage to soybean. National Conferences on Undergraduate Research, March 13-15, 2003, Salt Lake City, Utah.
- Radford, Pleasant, Jr., J.G. Hamilton and E.H. DeLucia. How tropospheric changes alter insect herbivory and leaf chemistry in soybean. Presented at the Undergraduate Mentoring in Environmental Biology Summer Research Symposium, September 14, 2002, Urbana, IL.

## COMMUNITY PRESENTATIONS AND OUTREACH

- Hamilton, J.G. Creepy Crawlies. Belle Sherman Elementary School, 1<sup>st</sup> Grade.. December 10, 2008.
- Hamilton, J.G. Creepy Crawlies. Fall Creek Elementary School, 1<sup>st</sup> Grade.. December 18, 2008.
- Hamilton, J.G. What is Sustainability and where did it come from? Guest presentation, Ithaca College Sustainably Conscious Living Community, Ithaca, NY. Thursday, December 4, 2008.
- Hamilton, J.G. Global Warming and Sustainability: The connections. Guest Seminar, *in* Applied Calculus, Ithaca College, Ithaca NY, Wednesday, November 12, 2008.
- Hamilton, J.G. What is Sustainability and where did it come from? Guest presentation, Cornell Campus Club, Cornell University, Ithaca, NY. Thursday, October 21, 2008.
- Hamilton, J.G. What is Sustainability and where did it come from? Keynote Address & Workshop, *Sowing Seeds of Sustainability*, Ecumenical Community Forum, Centenary United Methodist Church, Bath, NY. October 18, 2008.
- Hamilton, J.G. Edible Plants & Other Natural Wonders of South Hill. Ithaca College Natural Lands guided nature walk.. September 26, 2008.
- Drake, T. J. Jordan & J.G. Hamilton. Building Strong Ropes to Nature. Home Green Home seminar series, Ithaca, NY. July 24, 2008.
- Hamilton, J.G. Panel Presentation for *11<sup>th</sup> Hour*. Earth Day, Sponsored by Ithaca College Environmental Society. Ithaca College, April 22, 2008.
- Hamilton, J.G. Creepy Crawlies. Dryden Elementary School, 5<sup>th</sup> Grade.. March 10, 2008.
- Hamilton, J.G. The latest on sustainability & global warming. Episcopalian Policy Sunday Keynote Address. Church of the Good Shepherd, Savona, NY. February 10, 2008
- Hamilton, J.G. The latest on sustainability & global warming. Episcopalian Policy Sunday Keynote Address. St. Thomas Episcopal Church, Bath, NY. February 10, 2008
- Hamilton, J.G. Global Warming/Global Climate Change: Faith Calls Us to Live Sustainably on the Earth. Panel Discussion with Per Pinstrip Anderson & Rev. George Heyman. Catholic Charities, Elmira, NY. January 30, 2008.
- Cooper, C., D. Flerlage, J.G. Hamilton. Media Bites: Is this Global Warming Story True? Science Cabaret Series. Ithaca, NY, November 27, 2007.
- Hamilton, J.G. Future of our Planet. Panel Discussion with Per Pinstrip Anderson & Rev. David Grimm. The First Unitarian Society of Ithaca, Ithaca, NY. Nov. 8, 2007.
- Hamilton, J.G. Global Warming fact & Fiction. Trumansburg, 5,7,8<sup>th</sup> grades. Nov. 19, 2007.
- Hamilton, J.G. Creepy Crawlies. Cayuga Heights Elementary School. Nov. 14, 2007.
- Hamilton, J.G. Global Warming fact & Fiction. Dryden Elementary School, 5<sup>th</sup> Grade.. Oct. 24, 2007.
- Hamilton, J.G. & T. Nilsen-Hodges. Seeing through the eyes of a native: Experiential Ecology. Week-long mini-course. Elizabeth Anne Clune Montessori School, Ithaca, NY, June 11-15, 2007.
- Hamilton, J.G. Creepy Crawlies: Arthropod evolution and adaptation. Guest Presentation, Principles of Biology Laboratories, Ithaca College, Ithaca NY, April 2-5, 2007.

- Hamilton, J.G. News from the Front: The latest on sustainability, global warming. Guest Speaker, Tompkins County Public Library, Ithaca NY, Tuesday February 6, 2007.
- Hamilton, J.G. Global Warming and Sustainability: The connections. Guest Seminar, *in* Applied Calculus, Ithaca College, Ithaca NY, Monday November 6, 2006.
- Hamilton, J.G., M. Rogers & S. Swensen. The quest for a sustainable world: What we know - what we can do. Grounds Dept., Ithaca College, Ithaca NY, Thursday, November 9, 2006.
- Hamilton, J.G., M. Rogers & S. Swensen. The quest for a sustainable world: What we know - what we can do. Dept of Writing, Ithaca College, Ithaca NY, Thursday, November 9, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Kickoff presentation for Sustainability Living-learning residence hall community, Ithaca College, Ithaca NY, Sunday, September 10, 2006.
- Hamilton, J.G. Re-envisioning the Future: Sustainability and Meaning in life today. Guest Sermon, First Unitarian Society of Ithaca, Ithaca NY, Sunday, September 3, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Guest Seminar, Residence Hall Professional Staff Training, Ithaca College, Ithaca NY, Tuesday, August 1, 2006.
- Shevory, T., J.G. Hamilton. S. Vormwald. Public Forum. Finger Lakes Environmental Film Festival 7th Art City Series: An Inconvenient Truth. Cinemapolis, Ithaca, NY, Friday June 30, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Summer Orientation Leader Training, Ithaca College, Ithaca NY, Friday, June 16, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Guest Speaker, Illini Life Christian Fellowship, University of Illinois at Urbana-Champaign, Champaign IL, Monday, June 12, 2006.
- Hamilton, J.G. Global climate change and what we each can do about it. Sustainable Tompkins, Ithaca, NY, Thursday April 6, 2006.
- Hamilton, J.G. Global Warming: Fact and Fiction. Guest Seminar, *in* Power: Energy Options for a Sustainable Society, Ithaca College, Ithaca NY, Thursday, March 23, 2006.
- Hamilton, J.G. What Kind of World Do You Want To Live In? Your Health, Your Money, Your Planet, Your Future, Your Decision. Residence Hall Professional Staff, Ithaca College, Ithaca NY, Tuesday, January 31, 2006.
- Hamilton, J.G. What Kind of World Do You Want To Live In? Your Health, Your Money, Your Planet, Your Future, Your Decision. Invited Public Speaker, Student Government Association Sustainability Sub-Committee, Ithaca College, Ithaca NY, Monday, January 30, 2006.
- Hamilton, J.G. The quest for a sustainable world: What we know - what we can do. Guest Seminar, Residence Hall Advisors Spring Orientation, Ithaca College, Ithaca NY, Wednesday, January 11, 2006.
- Hamilton, J.G. Global Warming: Fact and Fiction. Guest Seminar, All College First Year Seminar Program, Ithaca College, Ithaca NY, Thursday, November 17, 2005.
- Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Plenary Talk. Campus Sustainability Day, Ithaca College, Ithaca NY, Wednesday, October 26, 2005.
- Hamilton, J.G. A Systems Model of Ecological Sustainability. Guest Seminar, All College First Year Seminar Program, Ithaca College, Ithaca NY, Thursday, September 22, 2005.
- Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Guest Seminar, Tests and Measurements in Physical Education, Ithaca College, Ithaca NY, Wednesday, September 28, 2005.

Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Guest Seminar, Academic Cabinet, Ithaca College, Ithaca NY, Wednesday, September 21, 2005.

Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Guest Seminar, All College First Year Seminar Program, Ithaca College, Ithaca NY, Thursday, September 1, 2005.

Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Summer Orientation Leaders, Ithaca College Orientation, Ithaca College, Ithaca NY, Tuesday, June 14, 2005.

Hamilton, J.G. The quest for a sustainable world -- and how that involves you. Paleontological Research Institute, Ithaca NY, May 7, 2005.

Hamilton, J.G. What Does Sustainability Have to do With me? Earth Day Keynote Talk. Ithaca College, April 21, 2005.

### **MANUSCRIPT REVIEWER FOR THE FOLLOWING JOURNALS AND GRANT AGENCIES**

American Journal of Botany	New Phytologist
Applied Ecology	Oecologia
Benjamin Cummings Publishers	Physiologia Plantarum
Ecology	Plant Ecology
Global Change Biology	Proceedings of the National Academy of Sciences
Journal of Tropical Forest Research	Sigma Delta Epsilon Graduate Women in Science
Journal of Vegetation Science	Journal of Austral Ecology
Madrono	Environmental Management
Environmental Entomology	

### **SERVICE ACTIVITIES**

- Academic Enrichment Services Faculty Associate (2009-present)
- Partnerships in Sustainability Education steering committee (2005-present)
- Commit-to-Change grant project leader (2008-present)
- Environmental studies steering committee (2006-present)
- MAT admissions committee (2007-present)
- Co-Chair and Faculty Manager for Ithaca College Natural Lands (2004-present)
- Faculty Curator for living arthropod collection (2004-present)
- Co-chair Faculty & Staff for Sustainability (2008-2009)
- Faculty Council (2008-2009)
- Biology Curriculum Committee Student Complaint Liaison (2003-2008)
- American College & University President's Climate Commitment Implementation Committee (2008)
- Search Committee for 1-yr NTE Biology (2007)
- Ithaca College Wind-Turbine Implementation Task Force (2006-2007)
- Search Committee for Animal Ecologist (2006)
- Chair, Plant/insect growth space committee (2004-2008)
- Core member, Center For Natural Sciences Sustainability Committee (2004-2008)
- Manager NSF DUE-Phase I grant "Applying Science to Sustainability" (2004-2005)
- School of Humanities & Sciences Faculty Senate (2003-2006)
- Environmental Studies Curriculum Committee (2003-2006)
- Environmental Science Curriculum Committee (2003-2006)
- Biology Curriculum Committee (2001-2002; Chair 2003, Co-Chair 2004)
- Chair, Biology journal subscriptions review committee (2003-2004)
- Biology Library representative (2002)

- Search committee for plant physiologist (2001)

## **PROFESSIONAL SERVICE ACTIVITIES**

- Science Advisor, Insects Are Food. (2009-present)
- Wilderness Mentoring Guild Advisory Committee (2007-present)
- New Roots Charter Sustainability High School Curricular advisor (2006-present)
- Chair, Board of Trustees, New Roots Charter Sustainability High School (2008-present)