

**ALLISON A. SNOW**

**2010 Curriculum Vitae**

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Department of Evolution, Ecology, & Organismal Biology  
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**EDUCATION:**

1982 Ph.D. University of Massachusetts (Botany)  
1978 M.S. University of Massachusetts (Botany)  
1975 B.A. Hampshire College (Biology)

**POSITIONS:**

Director, Undergraduate Research Office at Ohio State University, 2006-present  
Professor, Department of Evolution, Ecology, and Organismal Biology, 2000-present  
Adjunct Professor, Department of Horticulture and Crop Science, 2007-present  
Associate Professor, Ohio State University, 1994-1999  
Assistant Professor, Ohio State University, 1988-1993

Visiting Scientist, Royal Veterinary & Agricultural University, Denmark Aug.-Dec. 2004  
Visiting Scientist, University of Michigan Biological Station, Summers, 1989-2009  
Visiting Scientist, Risø National Laboratory, Denmark, July-Dec. 1997  
Visiting Scientist, Las Cruces Biological Station, San Vito, Costa Rica, Jan. – May 1998

Postdoctoral Research Associate:

Smithsonian Environmental Research Center, MD, 1986-1988  
Botany Department, University of California at Davis, 1983-1986

Postdoctoral Research Assistant:

Smithsonian Tropical Research Institute, Panama, 1982  
Rocky Mountain Biological Laboratory, Colorado, 1982

**RESEARCH INTERESTS:**

Evolutionary Ecology, Crop-Wild Hybridization & Transgenic Weeds, Invasive Species,  
Conservation Biology

**HONORS AND AWARDS:**

2008 Fellow, Academic Leadership Program, Committee in Institutional Cooperation  
of the Big Ten Research Universities and the University of Chicago  
2006 Centennial Award, Botanical Society of America  
2004 Technical Person of the Year, Columbus Technical Council, Columbus, OH  
2002 Scientific American – recognized as one of 50 Leaders in Science and  
Technology

- 2002 Ohio State University Distinguished Scholar Award
- 2000 Aldo Leopold Leadership Fellow, Ecological Society of America
- 1992 Fellow of the American Association for the Advancement of Science
- 1986 Smithsonian Postdoctoral Research Fellowship
- 1984 NSF Postdoctoral Fellowship in Environmental Biology

PROFESSIONAL ORGANIZATIONS:

- Past-President, Botanical Society of America, 2005-06
- President, Botanical Society of America, 2004-05
- President-Elect, Botanical Society of America, 2003-04
- Treasurer, International Society for Biosafety Research (publishes Environmental Biosafety Research), 2002-05
- Committee Member, Long-term Planning Committee, American Institute of Biological Sciences, 2005.
- Member: American Association for the Advancement of Science, Botanical Society of America, Weed Science Society of America, Ecological Society of America, International Society for Biosafety Research, Sigma Xi, Council on Undergraduate Research

EDITORIAL POSITIONS:

- Associate Editor for Environmental Biosafety Research, 2001-2006
- Associate Editor for Frontiers in Ecology and the Environment (Ecological Society of America), 2002-03
- Associate Editor for Ecology and Ecological Monographs, 1998-2001
- Associate Editor for Evolution, 1994-1997
- Ad hoc reviewer for: American Journal of Botany, American Naturalist, BioScience, Ecology, Evolution, Molecular Ecology, National Science Foundation, Nature, Science, USDA, Weed Science, Proceedings of the US National Academy of Sciences, Proceedings of the Royal Society of London, New Phytologist, International Journal for Plant Science, Heredity

RECENT ADVISORY PANELS AND OTHER PROFESSIONAL SERVICE:

- Workshop Participant, Synthetic Genomics: Scientists' Understanding of Society's Concerns; Society's Understanding of the Science and Scientists; sponsored by the Alfred P. Sloan Foundation and the J. Craig Venter Institute, 2009-10.
- Planning Committee Member and Plenary Session Chair, 10<sup>th</sup> International Symposium on Biosafety Research, Buenos Aires, Argentina, 2009-10.
- Workshop Participant, "Conceptual models to predict the probability of introgression, naturalization, invasion and impacts of GM and non-native plants." Landcare Research Institute, Lincoln, New Zealand. 2008.
- Panel Member, Evaluation of the Program on the Environmental, Societal and Health Effects of Genetically Modified Organisms, Academy of Finland, 2008.
- Steering Committee, Workshop on Gene Flow from Genetically Modified Crops, Weed

- Science Society of America, 2007.
- Steering Committee, Workshop on Ecological Risk Assessment of Genetically Engineered Forest Trees, sponsored by Pew Initiative on Food and Biotechnology, and the Institute of Forest Biotechnology, 2006-2007.
- NRC/US National Academy of Sciences Authoring Committee, The Status of Pollinators in North America, 2005-2006.
- Panel Chair, Plant Biotechnology Risk Assessment, USDA-Agricultural Research Service, Plant Biological and Molecular Processes National Program. 2005.
- Scientific Expert, International Potato Center (CIP), Lima, Peru, Center Commissioned External Review of Strategies for the Development and Deployment of Genetically Engineered Potatoes and Sweet Potatoes. 2005.
- Scientific Expert, World Trade Organization Dispute, Geneva, Switzerland. Panel on European Communities - Measures Affecting the Approval and Marketing of Biotech Products. 2004-2006. Decision released September 29, 2006.
- Committee Member, Council for Agricultural Science and Technology, Issue Paper on Gene Flow from Commercialized Biotech Crops. 2004-2005.
- Program Committee Member, 8<sup>th</sup> International Symposium on Biosafety Research, Montpellier, France, 2003-2004.
- NRC/US National Academy of Sciences Authoring Committee, Bioconfinement of Genetically Engineered Organisms, 2002-2003.
- Ecological Society of America, Authoring Committee Chair, Position paper. Genetically engineered organisms and the environment: current status and recommendations, 2002-2004.
- NAFTA Committee for Environmental Cooperation, Advisory Group for Article 13 report on transgenic maize in Mexico, 2002-2004.

#### PEER-REVIEWED PUBLICATIONS

- 2010- Snow, A. A., T. M. Culley, L. G. Campbell, P. M. Sweeney, S. G. Hegde, N. C. Ellstrand. Long-term persistence of crop alleles in weedy populations of wild radish (*Raphanus raphanistrum*). **New Phytologist**, *in press*.
- 2009 - Campbell, L. G., A. A. Snow, P. M. Sweeney. When divergent life histories hybridize: insights into adaptive life-history traits in an annual weed. **New Phytologist** 184:806-818.
- 2009 – Laughlin, K., A. G. Power, A. A. Snow, and L. J. Spencer. Environmental risk assessment of genetically engineered crops: potential fitness-related effects of virus-resistance transgenes in wild squash populations (*Cucurbita pepo*). **Ecological Applications** 19:1091-1101.
- 2009 – Campbell, L.G., and A. A. Snow. De-domestication of radish (*Raphanus sativus*, Brassicaceae) - Can gene flow assist the evolution of feral weeds? **American Journal of Botany** 96:1-10.

- 2009 – Campbell, L. G., A. A. Snow, P. M. Sweeney, and J. M. Ketner. Rapid evolution in crop-weed hybrids under artificial selection for divergent life histories. **Evolutionary Applications** 2:172-186.
- 2008 – Tesso, T. T., I. Kapran, C. Grenier, A. A. Snow, P. M. Sweeney, J. F. Pedersen, D. Marx, G. Bothma, and G. Ejeta. The potential for crop-to-wild gene flow in sorghum in Ethiopia and Niger: a geographic survey. **Crop Science** 48:1435-1431.
- 2008 – Cohen, M. B., A. A. Snow, S. Arpaiea, L. P. Lan, and L. M. Chau. Shared flowering phenology, insect pests, and pathogens among wild, weedy, and cultivated rice in the Mekong Delta, Vietnam: implications for transgenic rice. **Environmental Biosafety Research** 7:73-85
- 2007 – Campbell, L. G., and A. A. Snow. Competition alters life-history traits and increases the relative fecundity of crop-wild hybrids (*Raphanus* spp.). **New Phytologist** 173:648-660.
- 2006 – Campbell, L. G., A. A. Snow, and C. E. Ridley. Weed evolution after crop gene introgression: greater survival and fecundity of hybrids in a new environment. **Ecology Letters** 9:1198-1209.
- 2006 - Reagon, M. R., and A. A. Snow. Cultivated *Helianthus annuus* (Asteraceae) volunteers as a genetic “bridge” to weedy sunflower populations in North America. **American Journal of Botany** 93:127-133.
- 2006 - Chen, L.-Y., A. A. Snow, F. Wang, and B.-R. Lu. Effects of insect-resistance transgenes on fecundity in rice (*Oryza sativa*): a test for underlying costs. **American Journal of Botany** 93:94-101.
- 2006 – Rong, J., B.-R. Lu, Z. Song, J. Su, A. A. Snow, et al. Dramatic reduction of crop-to-crop gene flow within a short distance from transgenic rice fields. **New Phytologist** 173: 346-353.
- 2005 - Klips, R. A., P. M. Sweeney, E. K. F. Bauman, and A. A. Snow. Temporal and geographic variation in predispersal seed predation on *Hibiscus moscheutos* L. (Malvaceae) in Ohio and Maryland, USA. **American Midland Naturalist** 154:286-295.
- 2005 - S. Ortiz-García, E. Ezcurra, B. Schoel, F. Acevedo, J. Soberón, and A. A. Snow. Absence of detectable transgenes in local landraces of maize in Oaxaca, Mexico (2003-2004). **Proceedings of the National Academies of Science**, USA 102:12338-12343. (August 10, 2005, Early Edition Online; <http://www.pnas.org/cgi/content/abstract/0503356102v1> open access article).
- 2005 – Lu, B., and A. A. Snow. Gene flow from genetically modified rice and its environmental

- consequences. **BioScience** 55:669-678.
- 2005 - Selbo, S. M., and A. A. Snow. Flowering phenology and genetic similarity among local and recently introduced populations of *Andropogon gerardii* in Ohio. **Restoration Ecology** 13:1-7.
- 2005 - Snow, A. A., D. A. Andow, P. Gepts, E. M. Hallerman, A. Power, J. M. Tiedje, and L. L. Wolfenbarger. Genetically engineered organisms and the environment: current status and recommendations. **Ecological Applications** 15:377-404. Position paper of the Ecological Society of America -[www.esa.org/pao/esaPositions/Papers/geo\\_position.htm](http://www.esa.org/pao/esaPositions/Papers/geo_position.htm)
- 2004 – Selbo, S. M., and A. A. Snow. The potential for hybridization between *Typha angustifolia* and *T. latifolia* in a constructed wetland. **Aquatic Botany** 78:361-369.
- 2003 - Snow, A. A. Genetic engineering: unnatural selection. **Nature** 424:619.
- 2003 - Snow, A. A., D. Pilson, L. H. Rieseberg, M. Paulsen, N. Pleskac, M. R. Reagon, D. E. Wolf, and S. M. Selbo. A *Bt* transgene reduces herbivory and enhances fecundity in wild sunflowers. **Ecological Applications** 13:279-286.
- 2001 – Cummings, C. L., H. M. Alexander, A. A. Snow, L. H. Rieseberg, M. J. Kim, and T. M. Culley. Fecundity selection in an experimental sunflower crop-wild system: how well do ecological data predict crop allele persistence? **Ecological Applications** 12:1661-1671.
- 2001 – Spencer, L. J., and A. A. Snow. Fecundity of transgenic wild-crop hybrids of *Cucurbita pepo* (Cucurbitaceae): implications for crop-to-wild gene flow. **Heredity** 86:694-702.
- 2001 - Snow, A. A., K. L. Uthus, and T. M. Culley. Fitness of hybrids between cultivated radish and weedy *Raphanus raphanistrum*: implications for rapid evolution in weeds. **Ecological Applications** 11:934-943.
- 2001 - Borgella, R., Jr., A. A. Snow, and T. A. Gavin. Species richness and pollen loads of hummingbirds using forest fragments in southern Costa Rica. **Biotropica** 33:90-109.
- 2001 - Alexander, H. M., C. L. Cummings, L. Kahn, and A. A. Snow. Seed size variation and predation of seeds produced by wild and crop-wild sunflowers. **American Journal of Botany** 88:623-627.
- 2000 - Snow, A. A., T. P. Spira, and H. Liu. Effects of sequential pollination on the success of “fast” and “slow” pollen donors in *Hibiscus moscheutos* (Malvaceae). **American Journal of Botany** 87:1656-1659.
- 1999 - Cummings, C., H. M. Alexander, and A. A. Snow. Increased predispersal seed predation in sunflower wild-crop hybrids. **Oecologia** 121:330-338.

- 1999 – Jørgensen, R. B., B. Andersen, A. A. Snow, T. P. Hauser, and H. Østergård. Ecological risks of growing genetically modified crops. **Plant Biotechnology** 16: 69-71.
- 1999 – Snow, A. A., B. Andersen, and R. B. Jørgensen. Costs of transgenic herbicide resistance introgressed from *Brassica napus* into weedy *Brassica rapa*. **Molecular Ecology** 8:605-615.
- 1998 - Snow, A. A., P. Moran-Palma, L. H. Rieseberg, A. Wszcelaki, and G. Seiler. Fecundity, phenology, and seed dormancy of F<sub>1</sub> wild-crop hybrids in sunflower (*Helianthus annuus*, Asteraceae). **American Journal of Botany** 85: 794-801.
- 1998 - Lee, T. N. and A. A. Snow. Pollinator preferences and the persistence of crop genes in wild radish populations (*Raphanus raphanistrum*, Brassicaceae). **American Journal of Botany** 85:333-349.
- 1998 - Snow, A. A., and P. G. Parker. Molecular markers for population biology. **Ecology** 79:359-360.
- 1998 - Parker, P. G., A. A. Snow, M. D. Schug, G. C. Booton, and P. A. Fuerst. What molecules can tell us about populations: choosing and using a molecular marker. **Ecology** 79:361-382.
- 1998 - Linder, C. R., I. Taha, G. J. Seiler, A. A. Snow, and L. H. Rieseberg. Long-term introgression of crop genes into wild sunflower populations. **Theoretical and Applied Genetics** 96:339-347.
- 1998 - Case, A. L., P. S. Curtis, and A. A. Snow. Heritable variation in stomatal responses to elevated CO<sub>2</sub> in wild radish, *Raphanus raphanistrum*. **American Journal of Botany** 85:253-258.
- 1997 - Emms, S. K., D. A. Stratton, and A. A. Snow. The effect of inflorescence size on male fitness: experimental tests in the andromonoecious lily, *Zigadenus paniculatus*. **Evolution** 51:1481-1489.
- 1997 - Whitton, J., D. E. Wolf, D. M. Arias, A. A. Snow, and L. H. Rieseberg. The persistence of cultivar alleles in wild populations of sunflowers five generations after hybridization. **Theoretical and Applied Genetics** 95:33-40.
- 1997 - Moran-Palma, P., and A. A. Snow. The effect of interplant distance on mating success of federally threatened, self-incompatible *Hymenoxys herbacea* (Asteraceae). **American Journal of Botany** 84:233-238.
- 1997 - Snow, A. A., and P. Moran-Palma. Commercial cultivation of transgenic plants: potential

- ecological risks. **BioScience** 47:86-97.
- 1997 - Klips, R. A., and A. A. Snow. Facultative, delayed autonomous self-pollination in *Hibiscus laevis*. **American Journal of Botany** 84:48-53.
- 1996 - Snow, A. A., and T. P. Spira. Pollen-tube competition and male fitness in *Hibiscus moscheutos*. **Evolution** 50:1866-1870.
- 1996 - Spira, T. P., A. A. Snow, and M. A. Puterbaugh. The timing and effectiveness of sequential pollinations in *Hibiscus moscheutos*. **Oecologia** 105:230-235.
- 1995 - Snow, A. A., and K. F. Grove. Protandry, a neuter phase, and unisexual umbels in a hermaphroditic, neotropical vine (*Bomarea acutifolia*, Amaryllidaceae). **American Journal of Botany** 82:741-744.
- 1994 - Snow, A. A. Post-pollination mechanisms for sexual selection in plants. **American Naturalist** 144:S69-S83.
- 1994 - Curtis, P. S., A. A. Snow, and A. S. Miller. Genotype-specific effects of elevated CO<sub>2</sub> on fecundity in wild radish (*Raphanus raphanistrum*). **Oecologia** 97:100-105.
- 1993 - Snow, A. A., and P. O. Lewis. Reproductive traits and male fertility in plants: empirical approaches. **Annual Review of Ecology and Systematics** 24:331-351.
- 1993 - Windus, J. L., and A. A. Snow. Fruit set and seed predation in *Gentiana saponaria*, a rare gentian in Ohio. **American Midland Naturalist** 129:346-351.
- 1993 - Snow, A. A., and T. P. Spira. Individual variation in the vigor of self pollen and self progeny in *Hibiscus moscheutos* (Malvaceae). **American Journal of Botany** 80:160-164.
- 1992 - Lewis, P.O., and A. A. Snow. Deterministic paternity exclusion using RAPD markers. **Molecular Ecology** 1:155-160.
- 1992 - Whisler, S. J., and A. A. Snow. Potential for the loss of self-incompatibility in pollen-limited populations of mayapple (*Podophyllum peltatum*). **American Journal of Botany** 79:1273-1285.
- 1992 - Spira, T. P., A. A. Snow, D. F. Whigham, and J. Leak. Flower visitation, pollen deposition, and pollen-tube competition in *Hibiscus moscheutos* (Malvaceae). **American Journal of Botany** 79:428-433.
- 1991 - Snow, A. A., and T. P. Spira. Pollen vigour and the potential for sexual selection in plants. **Nature** 325:796-797.

- 1991 - Snow, A. A., and T. P. Spira. Differential pollen-tube growth rates and nonrandom fertilization in *Hibiscus moscheutos* (Malvaceae). **American Journal of Botany** 78:1419-1426.
- 1991 - Snow, A. A. Effects of pollen load size on sporophyte competitive ability in two *Epilobium* species. **American Midland Naturalist** 125:348-355.
- 1990 - Snow, A. A. Effects of pollen load size and number of donors on sporophyte fitness in *Raphanus raphanistrum*. **American Naturalist** 136:742-758.
- 1989 - Snow, A. A., and D. F. Whigham. Costs of flower and fruit production in *Tipularia discolor* (Orchidaceae). **Ecology** 70:1286-1293.
- 1989 - Snow, A. A. Assessing the gender role of hermaphroditic flowers. **Functional Ecology** 3:249-250.
- 1989 - Stanton, M. L., A. A. Snow, S. N. Handel, and J. Berezky. The impact of flower color polymorphism on mating patterns in experimental populations of wild radish (*Raphanus raphanistrum*). **Evolution** 43:335-346.
- 1988 - Snow, A. A., and S. J. Mazer. Gametophytic selection in *Raphanus raphanistrum*: a test for heritable pollen competitive ability. **Evolution** 42:1065-1075.
- 1988 - Snow, A. A., and M. L. Stanton. Aphids limit fecundity of a weedy annual (*Raphanus sativus*). **American Journal of Botany** 75:589-593.
- 1987 - Snow, A. A., and D. W. Roubik. Pollen deposition and removal by bees visiting two tree species in Panama. **Biotropica** 19:57-63.
- 1986 - Stanton, M. L., A. A. Snow, and S. N. Handel. Floral evolution: attractiveness to pollinators increases male fitness in a hermaphroditic angiosperm. **Science** 232:1625-1627.
- 1986 - Snow, A. A. Pollination dynamics of *Epilobium canum* (Onagraceae): consequences for gametophytic selection. **American Journal of Botany** 73:139-151.
- 1986 - Mazer, S. J., A. A. Snow, and M. L. Stanton. 1986. Fertilization dynamics and parental effects on fruit development in *Raphanus raphanistrum*: consequences for seed size variation. **American Journal of Botany** 75:500-511.
- 1984 - Vince, S. W., and A. A. Snow. Plant zonation in an Alaskan salt marsh. I. Distribution, abundance, and environmental factors. **Journal of Ecology** 72:651-668.

1984 - Snow, A. A., and S. W. Vince. Plant zonation in an Alaskan salt marsh. II. An experimental study of the role of edaphic conditions. **Journal of Ecology** 72:669-684.

1982 - Snow, A. A. Pollination intensity and potential seed set in *Passiflora vitifolia*. **Oecologia** 55:231-237.

#### BOOKS & BOOK CHAPTERS:

2006 - National Research Council. Status of Pollinators in North America. Coauthored with 15 NRC Committee Members. National Academies Press, Washington, DC. ISBN 0-309-10289-8.

2005 - Snow, A. A., and L. G. Campbell. Can feral radishes become weeds? Pp. 193-208 **In:** J. Gressel (Ed.). Crop ferality and volunteerism. CRC Press, Taylor & Francis Group, LLC, Boca Raton, FL. ISBN 0-8493-2895-0.

2005 - Snow, A. A. Genetic modification and gene flow: an overview. Pp. 107-118 **In:** D. L. Kleinman, A. J. Kinchy, and J. Handlesman (Eds.). Controversies in Science and Technology: From Maize to Menopause. University of Wisconsin Press, Madison, WI. ISBN 0-299-20394-8.

2004 - Commission for Environmental Cooperation of North America. 2004. Maize and Biodiversity: the Effects of Transgenic Maize in Mexico. Key Findings and Recommendations. Secretariat Article 13 Report, November 8, 2004. North American Agreement on Environmental Cooperation, NAFTA. <http://www.cec.org/maize/>, ISBN 2-923358-00-7, Commission for Environmental Cooperation, Quebec, Canada.

2004 – National Research Council. Biological confinement of genetically engineered organisms. Coauthored with 11 NRC Committee Members. National Academies Press, Washington, DC. 236 pp. ISBN 0-309-09085-7

2004 - Pilson, D., A. A. Snow, L. H. Rieseberg and H. M. Alexander. A protocol for evaluating the ecological risks associated with gene flow from transgenic crops into their wild relatives: the case of cultivated sunflower and wild *Helianthus annuus*. Chapter 17 in H. C. M. den Nijs, D. Bartsch, J. Sweet (Eds.). Introgression from genetically modified plants into wild relatives. ISBN 0-85199-816X CAB International Publishing

2000 – National Research Council. Genetically modified pest-protected plants: science and regulation. Coauthored with 11 NRC Committee Members. National Academies Press, Washington, DC. 263 pp. ISBN 0-309-06930-0

1997 - Snow, A. A. Potential for gene flow between transgenic crops and wild relatives. pp. 53-57 **In:** A. J. Hruska and M. L. Pavon (eds.), Transgenic Plants in Mesoamerican

Agriculture. Zamorano Academic Press, Zamorano, Honduras.

- 1996 - Snow, A. A., T. P. Spira, R. Simpson, and R. A. Klips. The ecology of geitonogamous pollination. pp. 191-216 **In:** D. G. Lloyd and S. C. H. Barrett (eds.), *Floral Biology*. Chapman and Hall, N.Y.
- 1992 - Snow, A. A., and T. P. Spira. 1995. Pollen germination as a component of pollen competitive ability. pp. 388-392 **In:** D.L. Mulcahy (ed.), *Angiosperm pollen and ovules*. Springer-Verlag, N.Y.
- 1986 - Snow, A. A. Evidence for and against pollen tube competition in natural populations. pp. 330-338 **In:** D. L. Mulcahy, G. B. Mulcahy, and E. Ottaviano (eds.), *Biotechnology and Ecology of Pollen*. Springer-Verlag, N.Y.
- 1983 - Mulcahy, D. L., P. S. Curtis, and A. A. Snow. 1983. Pollen tube competition in a natural population of *Geranium maculatum*. pp. 330-338 **In:** C. E. Jones and R. J. Little (eds.), *A Handbook of Experimental Pollination Biology*. Van Nostrand Reinhold, N.Y.

COMMENTARY (editor-reviewed):

- 2009 – Snow, A. A. Useful debate needs caution and civility. (letter in response to new article on GM controversies.) **Nature** 461:875.
- 2009 – Snow, A. A. Unwanted transgenes re-discovered in Oaxacan maize. **Molecular Ecology** 18:569-571.
- 2008 – Snow, A. A. Gene flow among transgenic plants and their wild relatives: implications for risk assessment. **Information Systems for Biotechnology News Report**. April 2008, <http://www.isb.vt.edu/>
- 2007 – Snow, A. A., and G. Ejeta. Biosafety of Transgenic Sorghum – A Comment on Visarada and Kishore. **Information Systems for Biotechnology News Report**. May 2007, <http://www.isb.vt.edu/>
- 2006 - Ortiz-García, S., E. Ezcurra, B. Schoel, F. Acevedo, J. Soberón , and A. A. Snow. Transgenic maize in Mexico. Letter to the Editor, **BioScience** 56:709.
- 2006 - Ortiz-García, S., E. Ezcurra, B. Schoel, F. Acevedo, J. Soberón , and A. A. Snow. Reply to Cleveland et al.'s “Detecting (trans)gene flow to landraces in centers of crop origin: lessons from the case of maize in Mexico.” **Environmental Biosafety Research** 4:209-215.
- 2004 - Snow, A. A. Botany in the news - how to communicate the fruits of our research. **Plant**

**Science Bulletin** Vol. 50 (3), pp. 75-76.

- 2004 - Snow, A. A. The role of ecologists in developing transgenic crops. **Agricultural Biotechnology International Conference Newsletter** No. 8, pp. 1-2, July 2004.
- 2004 - Snow, A. A. An ecologist's view of gene flow from transgenic crops. p. 70 in Raney, T., Ed., *The State of Food and Agriculture 2003-2004*, **Food and Agriculture Organization of the United Nations**, ISBN 92-5-105079-1.
- 2003 – Snow, A. A., and D. Pilson. Clarifying press before paper. **Nature Biotechnology** 21:597-598.
- 2003 – Snow, A. A. Consequences of gene flow from transgenic crops. **Environmental Biosafety Research** 2:43-46.
- 2002 – Snow, A. A. Transgenic crops: why gene flow matters. **Nature Biotechnology** 20:542.
- 2002 – Snow, A. A. Moving beyond “industry vs. ecologists” stereotype. **Nature** 420:121. (Response to news story about my research in *Nature* 419:655.)

BOOK REVIEWS (editor reviewed):

- 2007 – Snow, A. A. Seeds for the future: the impact of genetically modified crops on the environment. By Jennifer A. Thomson. Cornell University Press, Ithaca, New York. **Ecology** 88:3214-3215.
- 2007 – Snow, A. A. Intervention: confronting the real risks of genetic engineering and life on a biotech planet. By Denise Caruso. Hybrid Vigor Press. **Nature** 447:380-381.
- 2004 - Snow, A. A. Dangerous liaisons? When cultivated plants mate with their wild relatives. By N. C. Ellstrand. John Hopkins Press. **Information Systems for Biotechnology News Report**. April 2004.
- 1997 - Snow, A. A. The ecological risks of engineered crops. By J. Rissler and M. Mellon. 1996. MIT Press. **Ecology** 78:1294-1295.
- 1994 - Snow, A. A. Techniques for pollination biologists. By C. A. Kearns and D. W. Inouye, 1993. Univ. Press of Colorado. **Trends in Ecology and Evolution** 9:156.
- 1991 - Snow, A. A. Advances in pollination ecology. By A. Dafni and D. Eisikowitch, 1990. Weizmann Science Press of Israel. **Ecology** 72:761.
- 1990 - Snow, A. A. Plant evolutionary ecology. By J. H. Bock and Y. B. Linhart, 1989.

Westview Press. **Ecology** 71:2395.

1984 - Snow, A. A. Mate choice in plants. By M. F. Willson and N. Burley, 1983. Princeton Univ. Press. **Ecology** 65:1025-1026.

RECENT CONTRIBUTED PAPERS AT PROFESSIONAL MEETINGS:

(\* designates presenter)

- 2009 – Adugna\*, A. A., P. M. Sweeney, and A. Snow. A high throughput, cost effective, and all-stage DNA extraction protocol for sorghum (*Sorghum bicolor*). Inter-Drought III International Agricultural Symposium. Shanghai, China.
- 2009 – Mercer\*, K. L., A. A. Snow, and H. M. Alexander. Effects of early life history on lifetime fitness in wild sunflower. Annual Meeting of the Ecological Society of America, Albuquerque, NM, August 4, 2009.
- 2009 – Snow, A. A., S. Travis, R. Wildova, P. M. Sweeney,\* et al. DNA markers for studies of hybridizing cattail populations (*Typha latifolia* x *T. angustifolia*) in North America. Society of Wetland Scientists Annual Meeting, Madison, WI, June 22, 2009.
- 2008 – Snow\*, A. A., P. M. Sweeney, C. H. Pearson, D. J. Rath, and M. Reagon. Volunteers vary: fecundity, seed shattering, and dormancy of volunteers from open- and hand-pollinated sunflowers (*Helianthus annuus*). Tenth International Symposium on the Biosafety of Genetically Modified Organisms, Wellington, New Zealand, November 17, 2008.
- 2008 – Snow\*, A. A., P. M. Sweeney, C. Grenier, T. Tesso, I. Kapran, G. Bothma, G. Ejeta, and J. F. Pedersen. Lifetime fecundity of F<sub>1</sub> crop-wild sorghum hybrids: implications for gene flow from transgenic sorghum in Africa. Tenth International Symposium on the Biosafety of Genetically Modified Organisms, Wellington, New Zealand, November 17, 2008.
- 2008 – Snow, A. A. “Starting a Campus-Wide Undergraduate Research Office. Bi-annual meeting of the Council on Undergraduate Research, St. Cloud, Minnesota, June 21, 2008.
- 2008 – Snow\*, A. A., P. Sweeney, S. Su, M. Reagon, C. Grenier, G. Ejeta, I. Kapran, T. Tesso, J. Pedersen, G. Bothma. Gene flow from sorghum to wild and weedy conspecifics in Africa and the USA: implications for transgenic sorghum. Weed Science Society of America Annual Meeting, Chicago, IL, February 6, 2008.
- 2007 – Snow\*, A. A., L. G. Campbell, T. M. Culley, and C. E. Ridley. Long-term field studies of the evolution of crop-weed hybrids in radish: implications for invasiveness. Gene Flow Symposium, North Central Weed Science Society of America, St. Louis, MO, December 12, 2007.
- 2007 – Campbell\*, L. G., A. A. Snow, and P. M. Sweeney. Crop-wild hybridization and the rate of evolution in weeds. Gene Flow Symposium, North Central Weed Science Society of America, St. Louis, MO, December 12, 2007.
- 2007 – Campbell, L. G., and A. A. Snow\*. De-domestication of radish (*Raphanus sativus*) – do feral populations require hybridization to persist? Botanical Society of America, Chicago, IL. July 9, 2007.
- 2007 – Snow\*, A. A., P. M. Sweeney, C. Grenier, I. Kapran, T. Tesso, G. Ejeta, J. F. Petersen,

- G. Bothma. Lifetime fecundity of F<sub>1</sub> crop-wild sorghum hybrids: implications for gene flow from transgenic sorghum in Africa. Botanical Society of America, Chicago, IL. July 10, 2007.
- 2007 – Snow, A. A., P. M. Sweeney\*, C. Grenier, I. Kapran, T. Tesso, G. Ejeta, J. F. Petersen, G. Bothma. Lifetime fecundity of F<sub>1</sub> crop-wild sorghum hybrids: implications for gene flow from transgenic sorghum in Africa. Gene Flow Symposium, North Central Weed Science Society of America, St. Louis, MO, December 12, 2007.
- 2007 – Snow\*, A. A., P. M. Sweeney, R. Wildova, D. E. Goldberg, and J. Gao. Hybrids between *Typha angustifolia* and *T. latifolia* – are they more invasive than their parents? Ohio Invasive Plants Conference, Delaware, OH, Jan. 18, 2007.

#### COURSES TAUGHT:

##### *Courses:*

- 1989 - 2001 - Introduction to Ecology (with laboratory)
- 1989 - 2007 - Plant Population Ecology (graduate course with laboratory; alternate years)
- 1993 - 2001 - Experimental Field Ecology (graduate course, with laboratory, co-taught with Elizabeth Marschall)
- 2001 – 2009 – Senior Seminar for Evolution and Ecology Majors

##### *Graduate Seminars:*

- 1990 - Evolution of Plant Breeding Systems
- 1990 - Genetic Structure of Plant Populations
- 1990, 1993, 1995, 1997, 1998 - Pollination Ecology of Tropical Plants; module of graduate level Tropical Ecology course, Organization for Tropical Studies; Costa Rica
- 1992 - Plant Reproductive Ecology
- 1992 - Ecological Genetics of Rare Plants
- 1993 - Ecology and Evolution of Plant Ecotypes (co-taught with Dr. Peter Curtis)
- 1995 - Inbreeding, Outbreeding, and Conservation Biology (co-taught with Dr. Patricia Parker)
- 1995 - Statistics for Ecologists
- 1996 - Ecology of Invasive Plants (co-taught with Dr. Peter Curtis)
- 1999 - Restoration and Ecology of Rare Plants (co-taught with Dr. Amy Faivre)
- 2000 - Scientific Writing
- 2002 – Evolutionary Ecology of Weedy and Invasive Plants
- 2003– Molecular Markers and Genetic Diversity in Plant Populations
- 2003 – Gene Flow Between Crops and Wild Relatives
- 2008 - Ecological Genetics of Weedy and Invasive Plants

#### GRADUATE STUDENTS:

- Sandra Whisler**, M.S., 1991. "Pollen limitation of seed production in self-incompatible mayapple colonies (*Podophyllum peltatum*)."
- Kathleen Cochran**, M.S., 1993. "Genetic structure and reproductive success in two clonal, wind-pollinated prairie species." (Co-advisor with Tabor Allison)
- Jennifer Windus**, M.S., 1993. "Sexual dimorphism, reproductive success, and genetic structure

- of a rare fen species (*Valeriana ciliata*)." Employed at the US Fish and Wildlife Service, Columbus, OH.
- Katryn Syverson**, M.S., 1994. "Effects of elevated CO<sub>2</sub> and soil fertility on life history traits in wild radish (*Raphanus raphanistrum*)" (Co-advisor with Peter Curtis).
- Robert Klips**, Ph.D., 1995. "Inbreeding depression, autonomous self-pollination, and the genetic affinities of a rare taxon within the rose-mallows, *Hibiscus* section *Muenchhusia*. Currently an Associate Professor, Ohio State University at Marion.
- Pedro Moran-Palma**, Ph.D. 1997. "Reproductive ecology of *Hymenoxys herbacea* and *Helianthus annuus*."
- Carolee Franklin**, M.S. 1998, "Effects of inbreeding on seed set in federally endangered Running Buffalo Clover (*Trifolium stoloniferum*)."
- Theresa Culley**, Ph.D. 2000. "Breeding system and local genetic structure in two cleistogamous violet species (*Viola*)." Currently an Associate Professor, Univ. of Cincinnati.
- Lawrence Spencer**, Ph.D. 2001. "Fitness studies of hybrids between wild and domesticated, transgenic squash (*Cucurbita pepo*)." Employed as an environmental scientist with the South Florida Water Management District.
- Kristen Uthus**, Ph.D. 2001. "The potential for introgression of cultivated radish (*Raphanus sativus*) alleles into wild radish (*Raphanus raphanistrum*) populations." Employed as an instructor at the University of Michigan Biological Station.
- Sarena Mattson Selbo**, M.S. 2001. "Ecological genetics of native grasses in restored conservation areas". Employed at the US Fish and Wildlife Service, Denver, CO.
- Su Su**, M.S. 2006 "Gene flow between sorghum and its weedy relatives". Employed as a biostatistician at Massachusetts Mutual.
- Michael Reagon**, Ph.D. 2006. "Effects of crop-wild hybridization on population genetic structure of wild sunflower and wild rice". Currently a postdoctoral research at the Univ. of Massachusetts, Amherst.
- Lesley Campbell**, Ph.D. 2007. "Adaptive significance of crop-wild hybridization in wild radish." Currently a Huxley Postdoctoral Fellow at Rice University.
- Amy Campbell**, Ph.D. Candidate, 2007-present, "Evolutionary ecology of switchgrass, a potential biofuel crop."
- Hsiao-chi Chang**, M.S. Candidate, 2008-present, "Phenotypic correlates of a deleterious translocation in crop-wild hybrids of radish (*Raphanus* spp.)."
- Asfaw Adugna**, Ph.D. Candidate at Addis Ababa University, Ethiopia. 2008-present, "Genetic diversity and outcrossing in wild sorghum (*Sorghum bicolor*) in Ethiopia."

POSTDOCTORAL RESEARCHERS:

- Dr. Simon Emms**, Princeton University, 1994-95. "Effects of flower number on male fitness in a desert lily, *Zigadenus paniculatus*."
- Dr. Amy Faivre**, University of Arizona, 1998-00. "Genetic variation in isolated populations of a rare plant, *Valeriana ciliata*"
- Dr. Lawrence Spencer**, 2001- 2002 "Ecological effects of gene flow from crops to weeds."
- Dr. Jill Johnston**, 2002-2003 "Genetic diversity of shattercane and the potential for gene flow from grain sorghum."
- Dr. Kristin Mercer**, 2005-2008. "Evolutionary ecology of crop cultivars and wild relatives."

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**Dr. Patricia Sweeney**, 2003 – present (Senior Research Associate) “Developing genetic markers for the study of gene flow in plants.”