

CURRICULUM VITAE

SUSAN J. MAZER

Professor of Ecology and Evolution
Program Director, Ecology Program
National Science Foundation (2004 – 2005)
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EDUCATION:

1981; B.S. Biology; Yale University; New Haven, Connecticut
1983; M.S. Botany; University of California, Davis
1986; Ph.D. Botany; University of California, Davis

FOREIGN LANGUAGE PROFICIENCY: Spanish, French

RESEARCH INTERESTS:

The evolutionary ecology and genetics of seed size, gender, floral traits and their development, life-history traits, and phenotypic plasticity in plants and animals.

Genetic vs. environmental influences on the expression of fitness-related traits and inbreeding depression in wild species

The ecological and evolutionary significance of variation in reproductive traits within and among species: comparative ecological and evolutionary analyses to detect the role of natural selection in molding these traits in tropical and in temperate forests.

Local adaptation within and among species occupying heterogeneous environments and determining the consequences of ecotypic differentiation for restoration efforts.

COURSES TAUGHT:

Rainforest Ecology (visiting instructor for Organization of Tropical Biology graduate course in Costa Rica)
Rainforest Biodiversity (co-instructor for 3-week course at the Tambopata Wildlife Reserve, Peru, sponsored by the Smithsonian Institution)
General Biology (Plant Diversity Section)
General Botany with Lab
Advanced Plant Evolutionary Ecology
Plant Evolutionary Ecology Field and Computer Lab

Population Genetics
Evolutionary Ecology
Reproductive Ecology and Evolution Graduate Seminar
Plant Ecology Graduate Seminar
Evolutionary Ecology Graduate Seminar

Specialty Graduate Seminars

Quantitative Evolutionary Genetics
The Evolutionary Theory of Sex Allocation
The Comparative Method in Evolutionary Biology
Speciation: Theoretical and Empirical Approaches
Phenotypic Plasticity

EMPLOYMENT:

January 2004 – December 2005. Program Director, Ecological Biology Program, National Science Foundation, Arlington, Virginia.

July 1999- present. Full Professor of Ecology and Evolution; Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara.

July 1993 – June 1999. Associate Professor; Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara.

July 1988 - June 1993. Assistant Professor; Department of Biological Sciences, University of California, Santa Barbara.

February 1991 - May 1993 and July 1988 - September 1989. Research Collaborator; Departments of Botany and Paleobiology, respectively; National Museum of Natural History, Smithsonian Institution, Washington, D. C.

January 1987 - June 1988. Smithsonian Post-Doctoral Fellow; Department of Paleobiology; National Museum of Natural History, Smithsonian Institution, Washington, D. C.

FELLOWSHIPS:

1991. UC Regents Faculty Career Development Award

1990. UC Regents Faculty Career Development Award

1989. UC Regents Junior Faculty Fellowship

1987 - 1988. Smithsonian Post-Doctoral Fellowship; National Museum of Natural History

RESEARCH AWARDS, GRANTS AND CONTRACTS:

2006- 2007. University of California Pacific Rim Research Grant. Planning grant to initiate studies of ecosystem services provided by protected rainforest habitats in

Thailand. (Co-investigators: Dr. David Woodruff [UCSD] & Dr. David Greenberg: \$15,000).

2006. University of California Pacific Rim Research Grant. Mini-grant to co-teach rainforest Biodiversity & Research Training course to graduate students at Walailak University, Nakkom Sri Thammarat, Thailand, May 2006 (\$3000).

2002 - 2004. National Parks Foundation Postdoctoral Fellowship Sponsor (postdoctoral fellow: Dr. Kristina Hufford): Molecular genetic and ecological differentiation among Channel Island and mainland wild populations of California native perennial grasses: implications for restoration (\$150,000).

2003 - 2004. National Center for Ecological Analysis and Synthesis. "Beyond hand-pollinations — Linking pollen limitation to plant population biology" Working Group (Co-PI's Drs. Tia-Lynn Ashman, Tiffany Knight, and Martin Morgan: \$64,720).

2001 - 2003. National Center for Ecological Analysis and Synthesis. "Comparative ecology of functional and life history traits among neotropical rainforest species" Working Group (Co-PI's Drs. David Ackerly, Horacio Paz and Miguel Martinez-Ramos: \$53,000).

2002. Vandenberg Air Force Base: Factors influencing the successful restoration of Native Grasslands at Vandenberg Air Force Base, Santa Barbara County, California (\$22,500)

2001. UCSB Committee on Research (intramural grant: \$19,000), Molecular genetic evidence for gene flow and hybridization between resident and alien populations of California native perennial grasses at the UC Sedgwick Ranch Reserve.

2001. Pearl Chase Conservation Fund (intramural grant awarded by UCSB; \$17,634), Local Adaptation, Conservation, and Restoration of California Grasslands.

2000-2001. National Science Foundation Population Biology Panel, Small Grant for Exploratory Research. Gene Flow and Hybridization Between Introduced and Endemic Populations of Three Native Perennial Grass Species. Co-PI, O. James Reichman. (\$22,464).

2001. Research Experiences for Undergraduates Award. National Science Foundation, Program in Population Biology and Physiological Ecology (\$10,000).

1999 – 2001. Vandenberg Air Force Base Conservation Fund. Restoration of Native Grasslands at Vandenberg Air Force Base, Santa Barbara County, California. (\$90,000).

2000 – 2001. California State Department of Fish and Game. Molecular genetic variation within and among populations of two federally endangered species:

Arenaria paludicola (Caryophyllaceae) and Rorippa gambelii (Brassicaceae) (\$36,000).

1999 – 2000. UC Agriculture and Natural Resources. Seed Preparation, Cultivation and Preservation of Two Endangered Species, Rorippa gambelii and Arenaria paludicola (\$1800).

1998 – 1999. Vandenberg Air Force Base Conservation Fund. Restoration of Native Grasslands at Vandenberg Air Force Base, Santa Barbara County, California. (\$20,000).

1999 – 2003. National Science Foundation Population Biology Panel. The evolution of sex ratio and gender in selfing vs. outcrossing Clarkia spp. (Onagraceae): testing components of sex allocation theory. Collaborative grant with Dr. Veronique Delesalle (Gettysburg College). (Total award: \$308,000; award to Susan Mazer/UCSB: \$223,000).

1999 – 2000. California State Department of Fish and Game. Restoration and recovery of Arenaria paludicola (Caryophyllaceae) and Rorippa gambelii (Brassicaceae): two endangered species. (\$24,000).

1998 - 1999. California State Department of Fish and Game. Restoration and recovery of Arenaria paludicola (Caryophyllaceae) and Rorippa gambelii (Brassicaceae): two endangered species. (\$11,200).

1999 - 2000. Vandenberg Air Force Base. Effects of grazing on the diversity and relative abundances of California native perennial grass species in a serpentine grassland (\$24,000).

1998 - 1999. Vandenberg Air Force Base. Restoration of native grasslands at Vandenberg Air Force Base, Record Number 08981080 (\$30,000).

1997 – 1998. University of California, Santa Barbara, Committee on Research Grant. Gender allocation in wild plant species: testing assumptions and predictions. (\$5,000)

1998 - 1999. University of California, Santa Barbara, Committee on Research Grant. Sex allocation and gender expression in Clarkia unguiculata vs. C. exilis: testing assumptions of sex allocation theory (\$4,000).

1999 – 2000. University of California, Santa Barbara, Committee on Research Grant. Testing the assumptions of sex allocation theory in Clarkia species (\$5,000)

1991 - 1997. National Science Foundation Presidential Young Investigator Award in recognition of research and teaching accomplishments. \$25,000/year + \$37,500/year available in matching funds from the National Science Foundation (a total of \$291,251 was awarded from NSF, in addition to matching funds from several sources [below]).

1995 - 1996. Variation in Siring Success in Clarkia unguiculata. NSF Dissertation Improvement Award (with Steve Travers). (\$1827)

1995. Centre National de Recherche Scientifique (France). One-year Poste-Rouge sabbatical fellowship as an Associate Research Director in the Laboratoire d'Evolution et Systematique des Végétaux, Université de Paris-Sud XI, Orsay, France.

1995. Research Experiences for Undergraduates Award. National Science Foundation, Program in Population Biology and Physiological Ecology (\$4,000). To provide undergraduate research assistantships for the project, "Sex Allocation and Gender in Wild Populations of Spergularia marina (the sand-spurrey: Caryophyllaceae): An examination of the assumptions of theoretical models."

1994. Research Experiences for Undergraduates Award. National Science Foundation, Program in Population Biology and Physiological Ecology (\$5,000). To provide undergraduate research assistantships for the project, "Sex Allocation and Gender in Wild Populations of Spergularia marina (the sand-spurrey: Caryophyllaceae)"

1993 - 1994. National Geographic Society, "Ecological Consequences of Forest Fragmentation on an Amazonian Palm Community" (\$37,024, including matching funds from the National Science Foundation [Presidential Young Investigator Award])

1993 - 1994. Grant from Glaxo Pharmaceuticals, Inc. for the "Collection of Vegetative and Reproductive Botanical Specimens from Rainforest Species of Southeastern Peru for Medicinal Testing" and for the publication of a photographic Guide to the Fruits and Seeds of Lowland Tropical Rainforest Species of Madre de Dios. (\$150,000: including matching funds from the NSF PYI Award)

1993 - 1994. The Nature Conservancy, "Distribution, Abundance, and Reproductive Biology of Field and Greenhouse Populations of Gambel's Watercress (Rorippa gambellii: Brassicaceae) and Marsh Sandwort (Arenaria paludicola: Caryophyllaceae). (\$46,282: including matching funds from the NSF Presidential Young Investigator Award)

1992 - 1994. National Science Foundation. Program in Population Biology and Physiological Ecology (\$85,000. With Dr. Veronique Delesalle, Emory University). Sex Allocation and Gender in Wild Populations of Spergularia marina (the sand-spurrey: Caryophyllaceae): An examination of the assumptions of theoretical models.

1992 - 1993. California State Department of Fish and Game. (\$81,628: including matching funds from the National Science Foundation). Demography and Reproductive Biology of Field and Greenhouse Populations of Kern mallow (Eremalche kernensis: Malvaceae), Woolly threads (Lembertia congdonii: Asteraceae), and Jewelflower (Caulanthus californicus: Brassicaceae), three endangered species of California.

1991 - 1992. Competitive Research Award. Smithsonian Institution National Museum of Natural History BIOLAT Research Program. \$3500 grant to continue the study of seed dispersal, seed accumulation and the seed flora in Manu National Park, Peru .

1992 - 1993. California State Department of Fish and Game. (\$10,000: including matching funds from the National Science Foundation). Reproductive Biology of the Rare Astragalus lentiginosus var. piscinensis from (Leguminosae) Fish Slough Natural Area, Bishop, California.

1991 - 1993. National Science Foundation Grant for Improving Doctoral Dissertation Research (\$8000, with Charles T. Schick). Program in Population Biology and Physiological Ecology. “Causes of Geographic Variation in Flower Size in Nemophila menziesii H. & A. (Hydrophyllaceae).

1992 - 1993. Faculty General Research Grant (\$3000; University of California, Santa Barbara). Support of ongoing research project, “Quantitative genetics and evolutionary implications of gender variation in Spergularia marina”.

1991 - 1992. Faculty General Research Grant (\$4000; University of California, Santa Barbara). Support of ongoing research project, “Constancy of genetic parameters of life history and reproductive traits in Raphanus sativus”.

1990 - 1991. Competitive Research Award. Smithsonian Institution National Museum of Natural History BIOLAT Research Program. \$5000 grant to continue the study of seed dispersal, seed accumulation and the seed flora in Manu National Park, Peru.

1990 - 1991. Faculty General Research Grant (\$4000; University of California, Santa Barbara). Support of ongoing research project, “Constancy of genetic parameters of life history and reproductive traits in Raphanus sativus”.

1990 - 1991. Hoover Trust and Hardman Fund. With Charles T. Schick (\$1000) to conduct dissertation research on geographic variation in flower size in Nemophila menziesii.

1990 - 1991. American Philosophical Society. \$4000 to continue study, “Seed dispersal and accumulation within and among habitats of a neotropical rainforest (Manu National Park, Peru)”.

1989 and 1990. Competitive Research Awards. Smithsonian Institution National Museum of Natural History BIOLAT Research Program. \$2500 and \$2765 grants to continue the study of the ecology of seed dispersal in Manu National Park, Peru.

1989. Faculty General Research Grant (\$4000; University of California, Santa Barbara). Support of ongoing research project in Manu National Park, “Comparative seed ecology in a neotropical rainforest: seed dispersal and accumulation in four habitats”.

1988. Faculty General Research Grant (\$5000; University of California, Santa Barbara). Support of pilot study, “Genetic and environmental influences on components of reproduction in Raphanus raphanistrum (wild radish): effects of population density on estimates of genetic parameters”.

1988. Smithsonian Institution Research Opportunities Fund (\$1500); seed money to initiate a longterm study of seed dispersal in the lowland tropical Amazonian rainforest of Manu National Park, Peru as a participating ecologist and research associate in the collaborative Peruvian/North American Smithsonian BIOLAT program.

1984 - 1985. Co-author and co-investigator of an ecological consulting contract with the Northern California Power Agency (\$50,000): “The reproductive biology, life history and boron-tolerance of Streptanthus morrisonii (Brassicaceae)”.

INVITED INTERNATIONAL SYMPOSIA:

January, 2006. Second Field Ecology Symposium in Biodiversity Management, King Mongkut's University of Technology-Thonburi, Bangkok, Thailand. “Pollen-limited seed initiation in *Etilingera littoralis* (Zingiberaceae), in Khao Nan National Park, Nakhon Si Thammarat Province, Thailand.

November, 2005. NSF-DFG United States – Germany Conference on Biodiversity, American Association for the Advancement of Science. Title: “Seed size, adult abundances and habitat preferences in neotropical rainforests: alternative approaches to the study of morphological diversity”

May, 2005. Abdul Salam Institute of Theoretical Physics, Trieste, Italy, “Interspecific scaling of seed size and adult abundances of neotropical woody species within and across habitats: is size destiny?”

October, 2004. Botanical Congress of Mexico, Oaxaca, Mexico. “Seed size, habitat preference, and adult abundances of neotropical woody species”

September, 2004. University of Lausanne, Switzerland, Pollination Biology Graduate Workshop. “Mating system, pollen competition in selfing vs. outcrossing taxa: novel predictions for the comparative study of pollen tube growth rates”

June, 2004. Association for Tropical Biology Symposium: Morphology and life history of tropical woody species. “Seed size, germination syndrome, segregation among habitats, and adult tree population densities in neotropical communities”

June, 1999. International Botanical Congress, St. Louis, Missouri. “Ecology and evolution of plant reproductive traits” (symposium organizers: Susan J. Mazer and Christophe Thébaud)

September, 1995. Jacques Monod Conference on Genetics and Adaptation, Centre National de Recherche Scientifique, Aussois, France. "Sex allocation, variation, and covariation in floral and gender-related traits: evolutionary predictions and preliminary observations."

INVITED NATIONAL SYMPOSIA:

2002, May. Penn State University Plant Physiology Symposium, *Plant Reproduction 2002*. Title of presentation: "Fickle Sex Expression in Selfing and Outcrossing *Clarkia* (Onagraceae): the evolution of interspecific variation in ontogenetic trajectories"

1997, August. Symposium on Adaptive Genetic Variation in the Wild, Ecological Society of America meetings, Albuquerque, New Mexico. Title of presentation: "Geographic variation in flower size in Raphanus raphanistrum (wild radish: Brassicaceae): the potential role of pollinators as selective agents in flower size evolution. "

1991, April. National Symposium Organized by Dr. Robert Wyatt and sponsored by the Center for Continuing Education at the University of Georgia. Symposium Title: "Ecology and Evolution of Plant Reproduction: New Approaches"; Chapter Title: "Environmental Modification of Gender Allocation in Wild Radish: consequences for natural and sexual selection." Symposium contributions have been published by Chapman & Hall.

1989, June. National meetings of the Society for the Study of Evolution; Penn State University. Invited Symposium Speaker; symposium title: "Phylogenetic approaches to the study of evolutionary innovation"; presentation title, "Comparative approaches to the study of seed size evolution within and among angiosperm taxa."

1986, August. Symposium on the Causes and Consequences of Seed Weight; Botanical Society of America; AIBS meetings; Amherst, Massachusetts; "Causes and consequences of seed weight variation in wild radish."

INVITED RESEARCH SEMINARS (1995 - 2004):

May 2006. Department of Geography, UCSB. "The relationship between seed size, abundance, and habitat preferences among neotropical rainforest species: ecological and evolutionary approaches".

April, 2006. Northern Arizona University. "Seed size, tree abundances, and habitat preferences among neotropical rainforest species: is seed size neutral?"

July, 2005. Smithsonian Institution, National Museum of Natural History: “Seed size, abundances, and habitat preferences in Peruvian and Ecuadorian rainforests: ecological and evolutionary approaches”

May, 2005. University of Hawaii, Manoa. “Seed size, tree abundances, and habitat preferences among neotropical rainforest species: seeing the forest and the trees”

March, 2005. University of Connecticut, Storrs. “Seed size, tree abundances, and habitat preferences among neotropical rainforest species: seeing the forest and the trees”

October, 2004. Instituto de Investigaciones en Ecosistemas, Universidad Nacional Autonoma de Mexico (Morelia, Mexico). “Seed size, germination syndrome, adult tree abundances, and habitat preferences in neotropical rainforests: seed size and fate”

July, 2004. Blandy Experimental Station, University of Virginia. “Mating system evolution in farewell-to-spring (*Clarkia*: Onagraceae): developmental, ecological, and evolutionary consequences of selfing in annual wildflowers”

July, 2003. National Science Foundation, Arlington, Virginia. “Novel genetic and developmental tests of sex allocation evolutionary theory in selfing vs. outcrossing *Clarkia* taxa.”

January, 2003. University of Michigan, Ann Arbor. “ Evolutionary trade-offs between the sexes: Responses to selection in *Spergularia marina* (Caryophyllaceae) and future directions in sex allocation research”

November, 2002. Washington University, St. Louis. “ Sex allocation in theory and in practice: Responses to selection on primary sexual traits in *Spergularia marina* (Caryophyllaceae): the battle between the sexes” and “Detecting natural selection at multiple scales: populations, communities and higher taxa”

February 2002. Cancer Workshop: “The Genomic/Proteomic Revolution and Cancer”, sponsored by Johnson & Johnson, organized by Dr. Raymon Ruddon, and convening in Naples, Florida.

January, 2002. University of Oregon, Department of Biology. “Detecting natural selection at multiple scales: populations, communities and higher taxa” and “Sex allocation in theory and in practice: Responses to selection on primary sexual traits in *Spergularia marina* (Caryophyllaceae): the battle between the sexes”

February, 2001. Colorado State University, Department of Biology. “Sex allocation in theory and in practice: Responses to selection on primary sexual traits in *Spergularia marina* (Caryophyllaceae): the battle between the sexes”

January, 2000. University of Toronto, Department of Botany, “Sex allocation in theory and in practice: Responses to selection on primary sexual traits in *Spergularia marina* (Caryophyllaceae): the battle between the sexes”

November, 1999. University of Colorado, Boulder, Department of Ecological, Population, and Organismal Biology, “Sex allocation in theory and in practice: Responses to selection on primary sexual traits in Spergularia marina (Caryophyllaceae): the battle between the sexes”

October, 1999. California State University, Chico. "Responses to selection on male and female investment in an annual plant (Spergularia marina, the sand-spurrey: Caryophyllaceae): the battle between the sexes."

April, 1999. University of Kentucky, Lexington, Department of Ecology and Evolution, “Responses to selection on gender-related traits in Spergularia marina (Caryophyllaceae): the battle between the sexes”

November, 1998. University of Connecticut, Storrs, Department of Ecology and Evolution, “Responses to selection on gender-related traits in Spergularia marina (Caryophyllaceae): the battle between the sexes”

November, 1998. University of Arizona, Tucson, Department of Ecology and Evolution, “Responses to selection on gender-related traits in Spergularia marina (Caryophyllaceae): the battle between the sexes”

January, 1998. Santa Barbara Cancer Foundation Workshop on the Biology of Cancer. Population biology of cancer: an evolutionary perspective.

November, 1997. University of California, Irvine, Department of Ecology and Evolution. “Floral trait variation and covariation in Spergularia marina (Caryophyllaceae): a test of the assumptions of sex allocation theory”

November, 1997. University of California, Irvine, Department of Ecology and Evolution. “Geographic variation in flower size in Raphanus sativus and the potential role of pollinators in population differentiation”.

November, 1997. University of Chicago, Department of Ecology and Evolution. “Genetic correlations among floral traits in a selfing annual plant: a maladaptive battle between the sexes?”

December, 1995. Centre d'Ecologie Fonctionnelle et Evolutive, Centre National de Recherche Scientifique, Montpellier, France. “Implications of ecological, taxonomic, and life history correlates of seed size among Indiana Dune angiosperms: a comparative study”

October, 1995. Université de Montpellier II, Montpellier, France. “Genetic correlations among sexual traits in selfing and outcrossing species: evolutionary predictions and observations”

September, 1995. Centre National de Recherche Scientifique, Gif, France. “Quantitative genetic variation and covariation within and among floral traits in Spergularia marina (Caryophyllaceae): empirical observations and theoretical predictions”

July, 1995. University of Paris-Sud XI. Laboratoire d'Evolution et Systematique des Végétaux. Quantitative genetic variation and covariation within and among floral traits in Spergularia marina (Caryophyllaceae): empirical observations and theoretical predictions.

July, 1995. University of Grenoble (France). Quantitative genetic variation and covariation within and among floral traits in Spergularia marina (Caryophyllaceae): maternal family correlations and responses to selection.

June, 1995. University of Paris VI (Jussieu, Laboratoire d'Ecologie). The evolution of fruit size and shape in bird-dispersed tropical fruits: allometric patterns and implications at different ecological levels.

March, 1995. San Diego State University. Fruit size and shape in bird-dispersed tropical fruits: allometry in a nutshell.

RECENT CONTRIBUTED PAPERS:

2005. Association for Tropical Biology and Conservation, Uberlandia Brazil: "Seed size, abundances, and habitat preferences in Peruvian and Ecuadorian rainforests: explaining the maintenance of seed size variation"

2003. Sex expression in selfing vs. outcrossing Clarkia species; developmental variation. International meeting of the Society for the Study of Evolution. Chico State University, California.

2002. Fickle sex expression in selfing vs. outcrossing Clarkia species: the evolution of ontogenetic trajectories for floral traits. International meeting of the Society for the Study of Evolution, Champaign-Urbana, Illinois

2001. The evolution of winged seeds in Spergularia marina (Caryophyllaceae): to wing or not to wing? International meeting of the Society for the Study of Evolution, Knoxville, Tennessee.

1998. Does the neighborhood matter? The effects of neighbors on gender expression in Spergularia marina (Caryophyllaceae). (with Dr. Veronique Delesalle). Ecological Society of America meetings, Baltimore, Maryland.

1998. Size-dependent sex allocation in Clarkia unguiculata (Onagraceae): changes within and among genotypes. International meeting of the Society for the Study of Evolution, Vancouver, British Columbia.

1998. Response to selection on primary sexual investment in Spergularia marina (Caryophyllaceae): the accessory traits. (with Dr. Veronique Delesalle). Society for the Study of Evolution meetings, Vancouver, British Columbia.

1997. Genetic constraints on the evolution of sex allocation in plants: responses to selection on gamete production in Spergularia marina (Caryophyllaceae). Society for the Study of Evolution meetings, Boulder, Colorado.

1996. Nutrient levels and salinity affect gender and floral traits in the autogamous Spergularia marina. With Dr. Veronique Delesalle, Ecological Society of America meetings.

1995. Phenotypic and Genetic Variation Within and Among Floral and Gender Traits in Spergularia marina (Caryophyllaceae): ontogenetic and population effects. Petit Pois Deridé National Population Biology Meetings, Lyon, France.

1994. Variation and Covariation among Floral and Gender Traits in Spergularia marina (Caryophyllaceae): ontogenetic and population effects. Society for the Study of Evolution, Athens, Georgia.

1994. Floristic Composition, Soil Quality and Litter Decomposition within and among Terra Firme and Floodplain Habitats in Manu National Park, Peru. Association for Tropical Biology, Guadalajara, Mexico.

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Association for the Advancement of Science
 American Institute of Biological Sciences
 American Society of Naturalists
 Association for Tropical Biology

Botanical Society of America
 Ecological Society of America
 Society for the Study of Evolution
 European Society of Evolutionary Biology

REVIEWS FOR SCIENTIFIC JOURNALS and FUNDING AGENCIES (last 3 years):

American Journal of Botany, American Midland Naturalist, Canadian Journal of Botany; The American Naturalist, Biotropica, Ecography, Ecology, Evolution, Evolutionary Ecology, International Journal of Plant Sciences, Journal of Ecology, Journal of Evolutionary Biology, The New Phytologist, Oecologia and Oikos. Also, ~8 reviews per year for the National Science Foundation Population and Ecological Processes Program Panel and Ecology Program Panel, the National Environmental Research Council, and the Austrian Science Fund.

OTHER RECENT PROFESSIONAL CONTRIBUTIONS & ADMINISTRATIVE DUTIES

International

2003 - 2006 Editorial Board Member, Madroño

- 1999 – 2001 Executive Vice-President and Council Member, Society for the Study of Evolution
- 1997 - 2000 Editorial Board Member, Journal of Evolutionary Biology
- 1997 Served on “Habilitation” promotional committee of Dr. Isabelle Dajoz (University of Paris VI, Jussieu, Laboratoire d’Ecologie, Paris, France).
- 1998 Served on Ph.D. Committee of Horacio Paz, a student at the Universidad Nacional Autonoma de Mexico.
- 1997 Served on “Habilitation” promotional committee of Dr. Jacqui Shykoff (University of Paris VI, Jussieu, Laboratoire d’Ecologie, Paris, France).
- 2000 Served on “Habilitation” promotional committee of Dr. John D. Thompson (Centre d’Ecologie Fonctionnelle et Evolutive, Centre National de Recherche Scientifique, Montpellier, France)
- 1995 – 1998 Served on Ph.D. Committees of five students at the Université de Paris XI, the Université of Montpellier, and the Université Joseph Fourier, Grenoble: Luc Gigord, Laurence Affre, Nathalie Escaravage, Agnes Mignot, and Claudie Doums

National

- April 2006. Served on Advisory Panel to evaluate the Science Plan of the National Science Foundation’s proposed National Ecological Observatory Network (NEON).
- November 2003. Served on Advisory Panel for Evolutionary and Population Ecology competition of the National Science Foundation.
- June 2002 Participated in a 4-day writing conference for “Teaching about the Nature of Science and Biological Evolution” at the Biological Sciences Curriculum Study in Colorado Springs, Colorado. This conference developed text for three teaching modules for the high school and freshman college levels, illustrating the concepts and process of evolution by natural selection.
- 2000 - 2002 Serving on NSF-supported workshop to evaluate desirability and appropriateness of funding an Evolutionary Synthesis Center
- Present Advisory Board for the American Institute of Biological Sciences' BioOne initiative to provide electronic access to journals of societies that are members of the BioOne Consortium

- July 2000. Served on NSF's Committee of Visitors Panel to evaluate activities and fairness of the Systematics and Population Biology Programs from 1996 - 1999.
- May 1999. Served on Advisory Panel for the Integrated Research Challenge grant competition of the National Science Foundation.
- October 1997. Served on the Population Biology Advisory Panel of the National Science Foundation.
- June 1996. Participated in a Site Visit with the Research Training Grant Advisory Panel for the Program in Population Biology of the National Science Foundation
- October 1994. Served on the Population Biology Advisory Panel of the National Science Foundation.
- 1992 within Served on U. S. national subcommittee of the "Steering Committee for the Systematics Agenda 2000", investigating research trends and priorities systematic biology.

University

- 2002 Advisory Committee on Pay Equity at UCSB
- 2001 Chair, Committee to Evaluate the Risk of Exotic Species at UCSB Natural Reserves.
- 2000 -2002 Chancellor's Advisory Committee on the Status of Women
- 1996 Member, Committee on Organizational Structure (to find ways to reduce campus-wide expenses while increasing efficiency in the following activities: Computing, Shops, Publication, Library)
- 1991 - 1994 Chair, Advisory Committee for the Coal Oil Point Natural Reserve
- 1992 - 1994 Member, Faculty Legislature - Area V
- 1993 - 1994 Member, UCSB Student Affairs Council
- 1990 - 1994 Member, UCSB Campus Wetlands Committee
- 1989 - 1994 Member, UCSB Natural Reserve System Advisory Committee
- 1992 Participant in UC-wide Conference on the Report of the University Task Force on Faculty Rewards (Pister Report)

Departmental

- 1997 - 1999 Chair and Organizer of Weekly Research Seminar Series
- 1997 - 1999 Life Sciences Computer Facility Committee
- 1996 - 1999 Committee for the Evaluation and Appointment of Adjunct Faculty
- 1993 - 1995 Department of Biological Sciences Resources (Budget and Space) Committee
- 1993 - 1994 Departmental Introductory Course Committee
- 1993 - 1995 Departmental Advisor and Liaison for Forestry/Agriculture
- 1993 Departmental Reorganization Committee (Administering the Split between Ecology, Evolution & Marine Biology and Cell, Developmental & Molecular Biology)

- 1992 - 1997 Greenhouse Oversight Committee
 1993 New Department of Ecology, Evolution and Marine Biology Instructional Planning Committee
 1992-1993 Organization and Steering Committee of the Life Sciences Computing Facility
 1991-1992 Departmental Operations and Services Planning Committee

PEER-REVIEWED PUBLICATIONS:

1. Mazer, S. J. and B. H. Tiffney. 1982. Fruits of Wetherellia and Palaeowetherellia (?Euphorbiaceae) from Eocene sediments in Virginia and Maryland. *Brittonia* 34: 300-333.
2. Mazer, S.J. , A. A. Snow and M. L. Stanton. 1986. Fertilization dynamics and parental effects upon fruit development in Raphanus raphanistrum: consequences for seed size variation. *American Journal of Botany* 73: 500-511.
3. Mazer, S. J. 1987. Parental effects on components of seed development and seed yield in Raphanus raphanistrum: implications for natural and sexual selection. *Evolution* 41: 355-371.
4. Mazer, S. J. 1987. The quantitative genetics of life-history characters in Raphanus raphanistrum: ecological and evolutionary consequences of seed weight variation. *American Naturalist* 130: 891-914.
5. Mazer, S. J. 1987. Maternal investment and male reproductive success in angiosperms: parent-offspring conflict or sexual selection? *Biological Journal of the Linnean Society* 30: 115-133.
6. Snow, A. A. and S. J. Mazer. 1988. Gametophyte selection in Raphanus raphanistrum: a test for heritable variation in pollen competitive ability. *Evolution* 42: 1065-1075.
7. Nakamura, R. R., M. L. Stanton and S. J. Mazer. 1989. Effects of mate size and mate number on male reproductive success in plants. *Ecology* 70: 71-76.
8. Mazer, S. J. 1989. Ecological, taxonomic, and life history correlates of seed mass among Indiana Dune angiosperms. *Ecological Monographs* 59: 153-175.
9. Mazer, S. J. 1989. Genetic associations among life history and fitness components in wild radish: controlling for maternal effects on seed weight. *Canadian Journal of Botany* 67: 1890-1897.
10. Mazer, S. J., R. R. Nakamura and M. L. Stanton. 1989. Seasonal changes in components of male and female reproductive success in Raphanus sativus L. (Brassicaceae). *Oecologia* 81: 345-353.

11. Mazer, S. J. 1990. Seed mass variation of Indiana Dune genera and families: taxonomic and ecological correlates. *Evolutionary Ecology* 4: 326-358.
12. Byrne, M. and S. J. Mazer. 1990. The effect of position on fruit characteristics, and relationships among components of yield in Phytolacca rivinoides (Phytolaccaceae). *Biotropica* 22: 353-365.
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