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Last updated 1 May 2014

Education

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| 1990 | Ph.D. Biology, University of Utah |
| 1983 | M.S. Zoology (with Distinction), University of Oklahoma |
| 1981 | B. S. Ecology & Behavioral Biology (magna cum laude), University of Minnesota |

Academic and Scientific Positions

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| 2013 | Visiting Scholar, University of Queensland (January-March) |
| 2009-10 | Visiting Scholar, University of Queensland. |
| 2007- | Founding Director, Institute for Contemporary Evolution, Davis, California |
| 2007-08 | Visiting Scholar, University of Queensland. |
| 2004-08 | Faculty in Tropical Medicine, Lake Atitlan Medical Project, Guatemala. |
| 2003-04 | Visiting Scholar, University of Queensland. |
| 1998- | Associate, Department of Entomology, University of California–Davis |
| 1998- | Affiliate, Center for Population Biology, University of California–Davis |
| 1996-98 | Assistant Professor, Department of Biology, University of New Mexico. |
| 1991-96 | Postdoctoral Associate, Center for Population Biology, Univ. California–Davis. |
| 1992-93 | Faculty, Sierra Institute, University of California–Santa Cruz. |
| 1992 | Faculty, Organization for Tropical Studies, Costa Rica. |
| 1990 | Faculty, School for Field Studies, Costa Rica. |
| 1990- | Director, Carroll-Loye Biological Research (Entomological and Environmental Testing). |

Research for Industry

1990- Approximately 120 industrial studies testing phytochemicals and other products for control and repulsion of mosquitoes, ticks, fleas, and lice in humans and domestic animals.

Selected Professional Services

2006-9 Member, US Centers for Disease Control Working Group in Insect Repellents.
2005-6 Advisory Associate, Walter Reed Army Institute of Research.
2005-10 Advisory Associate, Armed Forces Pest Management Board.
2005-6 Advisory Associate, USDA Agricultural Research Service.
1998- Advisor, National Insect Repellent Efficacy Testing Guidelines, US Environmental Protection Agency, Washington, DC.

Regulatory Review of Contract Research

2005-11 CITI Course in the Protection of Human Research Subjects– Certification of Completion.
2006- US EPA Office of Pesticide Programs Science and Ethics Approval.
2006- US EPA Human Studies Review Board Protocol Review.
1998- US EPA Inspected: Good Laboratory Practice Standards.
1998- California State EPA Protocol Approval.
1998-03 University of California, San Francisco Medical Center, Institutional Review Board Protocol Approval for Human Subject Studies.
1997-00 US FDA Protocol Review.

Selected Honors and Awards

2007 Fulbright. Inaugural Alumni Initiative Award, Australian-American Fulbright Commission.
1981 *Magna cum laude*, College of Biological Sciences, University of Minnesota.

Fellowships

2010- Senior Research Fellow, Center for Tropical Research, UCLA Institute of the Environment.
2003-4 Fulbright Senior Scholar to Australia.
1986-90 US National Institutes of Health Research Service Fellow, Genetics.
1985 Smithsonian Tropical Research Institute, Panama.

Selected Grants

- 2010-13 US National Science Foundation. Interdisciplinary Solutions to Evolutionary Challenges in Food, Health and the Environment.
- 2008-10 Commonwealth Scientific and Industrial Research Organization, Australia. Interdisciplinary Solutions to Evolutionary Challenges in Food, Health and the Environment.
University of Queensland School of Life Sciences: Interdisciplinary Solutions to Evolutionary Challenges in Food, Health and the Environment.
- 2007 Australian–American Fulbright Commission. Adaptive management– a proposal for evolutionary conservation biology.

Publications and manuscripts

Books and Edited Volumes

- 2011 Carroll, S. P., Kinnison, M., and Bernatchez, L. eds. 2011. In the Light of Evolution: Interdisciplinary Challenges in Food, Health and the Environment. *Evolutionary Applications* 4:155-413.
- 2009 Carroll, S. P, ed. Causes and consequences of adaptive evolution. *Functional Ecology*. [Virtual issue web access](#)
- 2008 Carroll, S. P. and Fox, C. W., eds. *Conservation Biology–Evolution in Action*. 380 pp. Oxford: Oxford University Press.
- 2007 Hendry, A., Carroll, S. P., and Reznick, D., eds. Evolution on Ecological Time-Scales (a special feature with 9 articles). *Functional Ecology* 21:387-477. [Web access to the papers](#)

Papers & Chapters

In review

- Carroll et al. Applying evolutionary biology to address global challenges. *Science*.
- Smith et al. Prescriptive evolution to conserve and manage biodiversity. *Annual Review of Ecology, Evolution and Systematics*.
- Gildenhuys et al. Home sweet home: resolving biogeographic ranges of invasive balloon vines in the genus *Cardiospermum*. *Diversity and Distributions*.
- 2013 Andrés, J. A.,Thampy, P., Mathieson, M., Loye, J. E., Zalucki, M., Dingle, H. and Carroll, S. P. Hybridization and adaptation to introduced balloon vines in an Australian soapberry bug. *Molecular Ecology*. DOI: 10.1111/mec.12553

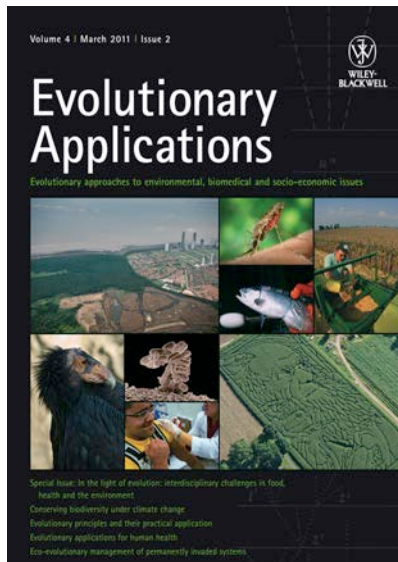
Covers

2014



Editor's choice, most influential article in the first 25 years of *Behavioral Ecology*. Celebratory virtual issue.

2011



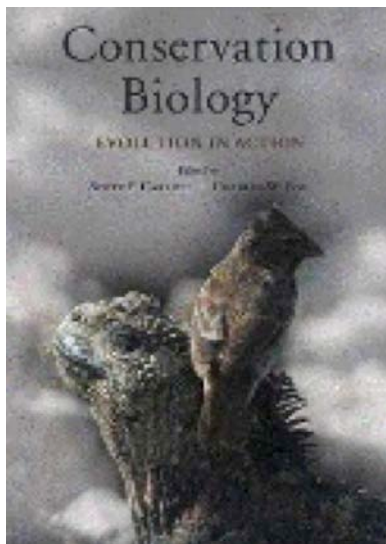
Interdisciplinary Challenges in Food, Health and the Environment. Editor, Special Issue of *Evolutionary Applications* 4:155-413.

2009



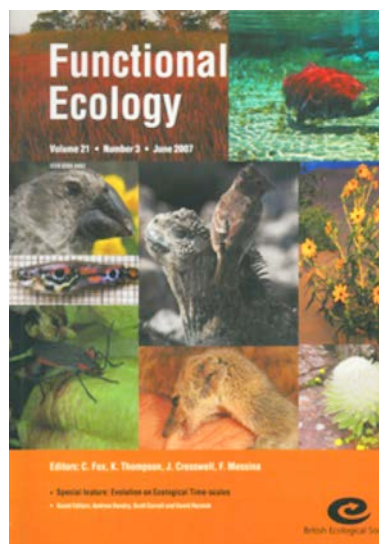
Causes and Consequences of Adaptive Evolution. Editor of virtual issue, *Functional Ecology*, June, 2009.

2008



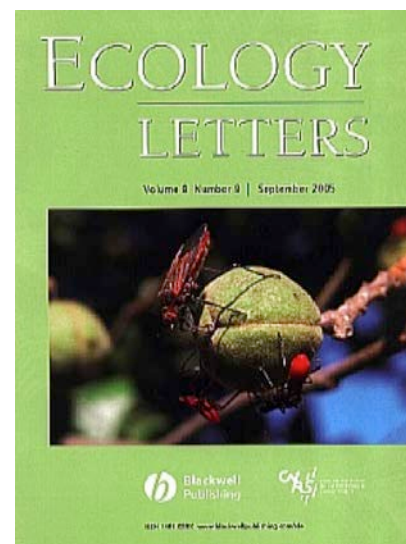
Conservation Biology – Evolution in Action. Editor. Oxford University Press.

2007



Evolution on Ecological Time-scales. Editor of special feature, *Functional Ecology* 21: 387-477.

2005



And the beak shall inherit – evolution in response to invasion. *Ecology Letters* 8: 944-951.

- Gildenhuis E., Ellis, A., Carroll, S. P., Le Roux, J. The ecology, biogeography, history and future of two globally important weeds: *Cardiospermum halicacabum* Linn. and *C. grandiflorum* Sw. *NeoBiota* 19: 45-65. doi: 10.3897/neobiota.19.5279
- 2012 Carroll, S. P. and Loye, J. E. Soapberry bug native and introduced host plants: the biogeography of anthropogenic evolution. *Annals of the Entomological Society of America* 105: 671-684.
- Perreira, C, Carroll, S. P. and Loye, J. E. *Leptocoris ursulae* (Hemiptera, Rhopalidae, Serinethinae), a new species of soapberry bug from Uganda. *Deutsche Entomologische Zeitschrift* 122: 123-124.
- 2011 Carroll, S. P. Conciliation biology: the eco-evolutionary management of permanently invaded biotic systems. *Evolutionary Applications* 4: 184-199.
- Carroll, S. P., Kinnison, M., and Bernatchez, L. In the light of evolution: interdisciplinary challenges in food, health and the environment. *Evolutionary Applications* 4: 155-158.
- Hendry, A. P., M. T. Kinnison, M. Heino, T. Day, T. B. Smith, G. Fitt, C. T. Bergstrom, J. Oakeshott, P. S. Jørgensen, M. P. Zalucki, G. Gilchrist, S. Southerton, A. Sih, S. Strauss, R. F. Denison and S. P. Carroll. Evolutionary principles and their practical application. *Evolutionary Applications* 4:159-183.
- Davis, M. A., Chew, M. K., Hobbs, R. J., Lugo, A. E., Ewel, J. J., Vermeij, G. J., Brown, J. H., Rosenzweig, M. L., Gardener, M. R., Carroll, S. P., Thompson, K., Pickett, S. T. A., Stromberg, J. C., Del Tredici, P., Suding, K. N., Eherenfeld, J. G., Grime, J. P., Mascaro, J., Briggs, J. C. Don't judge species on their origins. *Nature* 474:153-154. [A Nature Editors' 2011 top Comment Piece.]
- Fradin, M. and Carroll, S. P. Insect Repellents, Chapter 47. Pp. 872-882 in *Wilderness Medicine, 6th ed.* (P. S. Auerbach. ed.). Elsevier, Philadelphia.
- 2010 Ghalambor, C. K, Angeloni, L., and Carroll, S. P. Behavior as phenotypic plasticity. Pp. 90-107 in *Behavioral Ecology* (Westneat, D. and Fox, C. W., eds.). Oxford University Press. Don't judge species by their origins. *Nature* 474: 153-154.
- 2009 Dingle, H, Carroll, S. P., and Famula, T. R. Influence of genetic architecture on contemporary local evolution in the soapberry bug, *Jadera haematoloma*: artificial selection on beak length. *Journal of Evolutionary Biology* 22: 2031-2040.
- Carroll, S. P. and Fox, C. W. Evolution of Life Histories. Pp. 567-570 in M. Ruse & J. Travis (editors) *Evolution: The First Four Billion Years*. Belknap Press, Cambridge, MA.
- 2008 Carroll, S. P. Facing change: forms and foundations of adaptation to biotic invasions. *Molecular Ecology* 17: 361-372.

- Carroll, S. P. and Watters, J. W. Driving phenotypic variability with genetic and environmental heterogeneity: adaptation as a first principal of conservation management. Pp. 181-198 in *Conservation Biology–Evolution in Action*, (Carroll, S. P. and Fox, C. W., eds.). Oxford: Oxford University Press.
- Carroll S. P. and Fox C. W. The next communities: evolution and the integration of invasive species. Pp. 239-251 in *Conservation Biology–Evolution in Action*, (Carroll, S. P. and Fox, C. W, eds.). Oxford: Oxford University Press.
- Carroll, S. P. Prolonged efficacy of IR3535 repellents against mosquitoes and blacklegged ticks in North America. *Journal of Medical Entomology* 45: 706-714.
- 2007 Carroll, S. P, Hendry, A. P., Reznick, D., and Fox, C. W. Evolution on ecological time-scales. *Functional Ecology* 21: 387-393.
- Carroll, S. P. Brave New World: the epistatic foundations of natives adapting to invaders. *Genetica* 129: 193-204.
- Carroll, S. P. Natives adapting to invasives– ecology, genes, and the sustainability of conservation. *Ecological Research* 22: 892-901.
- Carroll, S. P. and Fox, C. W. Dissecting the evolutionary impacts of plant invasions: bugs and beetles as native guides. *Global Change Biology* 13: 1644-1657.
- Ghalambor, C. K, McKay, J. K., Carroll, S. P. and Reznick, D. N. Adaptive versus non-adaptive phenotypic plasticity and the potential for adaptation to new environments. *Functional Ecology* 21: 394-407.
Selected as one of '100 Influential Papers' published by the British Ecological Society in its first 100 years (1913-2013).
- 2006 Strauss, S. Y., Lau, J., and Carroll, S. P. Evolutionary responses of natives to introduced species: What do introductions tell us about natural communities? *Ecology Letters* 9: 357-374.
- Carroll, S. P. and Loye, J. E. Invasion, colonization, and disturbance; historical ecology of the endangered Miami blue butterfly and a guild of subtropical seed-predators in Florida. *Journal of Insect Conservation* 10:13-27.
- Carroll, S. P. Evaluation of topical insect repellents and factors that affect their performance. In *Insect Repellents: Principles, Methods, and Use*, Debboun, M., Strickman, D. and Frances, S. P. (eds.). Boca Raton Florida, CRC Press.
- Carroll, S. P. and Loye, J. E. A commercially-available botanical insect repellent as effective as DEET. *Journal of the American Mosquito Control Association* 22: 507-514.

- Carroll, S. P. and Loye, J. E. Field test of a lemon eucalyptus repellent against biting midges. *Journal of the American Mosquito Control Association* 22: 483-485.
- 2005 Carroll, S. P., Loye, J. E., Dingle, H., Mathieson, M., Famula, T. R. and Zalucki, M. And the beak shall inherit– evolution in response to invasion. *Ecology Letters* 8: 944-951.
- Carroll, S. P., Loye, J. E., Dingle, H., Mathieson, M., and Zalucki, M. Ecology of *Leptocoris* Hahn (Hemiptera: Rhopalidae) Soapberry Bugs in Australia. *Australian Journal of Entomology* 44:344-353.
- Carroll, S. P., Mathieson, M., and Loye, J. E. Invasion history and ecology of the environmental weed Balloon Vine, *Cardiospermum grandiflorum* Swartz, in Australia. *Plant Protection Quarterly* 20: 140-144.
- Pratt, S. M., Spier, S. J., Carroll, S. P., Vaughan, B, Whitcomb M. B., and Wilson W. D. Clinical characteristics and diagnostic test results in horses with internal infection caused by *Corynebacterium pseudotuberculosis*: 30 cases (1995-2003). *Journal of the American Veterinary Medicine Association* 227: 441-448.
- 2004 Spier, S., Leutenegger, C. M., Carroll, S. P., Loye, J. E., Berger Pusterla, J., Carpenter, T. E., and Madigan, J. E. Evaluation of the insect vector(s) for *Corynebacterium pseudotuberculosis* in horses using real time TaqMan PCR. *American Journal of Veterinary Research* 65: 829-834.
- 2003 Carroll, S. P., Dingle H. and Famula, T. R. Rapid appearance of epistasis during adaptive divergence following colonization. *Proceedings of the Royal Society of London B (Suppl.)* 270: S80-S83.
- Carroll, S. P., Marler, M., Winchell, R. and Dingle, H. Evolution of cryptic flight morph and life history differences during host race radiation in the soapberry bug, *Jadera haematoloma* Herrich-Schaeffer (Hemiptera: Rhopalidae). *Annals of the Entomological Society of America* 96: 135-143.
- 2001 Carroll, S. P., Dingle, H., Famula, T. R., and Fox, C. W. Genetic architecture of adaptive differentiation in evolving host races of the soapberry bug, *Jadera haematoloma*. *Genetica* 112-113:257-272.
- 1999 Carroll, S. P. and Corneli, P. S. The evolution of behavioral reaction norms as a problem in ecological genetics: theory, methods and data. Pp. 52-68 *In* S. Foster and J. Endler (eds.), *The Evolution of Behavioral Phenotypes; Perspectives from the Study of Geographic Variation*. Oxford: Oxford University Press.
- 1998 Carroll, S. P., Klassen, S. P. and Dingle, H. Rapidly evolving adaptations to host ecology and nutrition in the soapberry bug. *Evolutionary Ecology* 12: 955-968.

- Loye, J. and S. P. Carroll. Forum on Insect Behavior in Conservation: Ectoparasite behavior and its effects on avian nest site selection. *Annals of the Entomological Society of America* 91: 159-163.
- 1997 Carroll, S. P., Dingle, H. and Klassen, S. P. Genetic differentiation of fitness-associated traits among rapidly evolving populations of the soapberry bug. *Evolution* 51: 1182-1188.
- Dingle, H., Carroll, S. P. and Loye, J. Behavior, conservation and 99% of the world's biodiversity: Is our ignorance really bliss? In: Clemmons, J. and Buckholz, R., ed. *Behavioral Approaches to Conservation in the Wild*. Oxford: Oxford University Press.
- Carroll, S. P. Review of *Phylogenies and the Comparative Method in Animal Behavior*, Martins, E. P., ed. *Quarterly Review of Biology* 72:231-232.
- 1996 Carroll, S. P. and Dingle, H. The biology of post-invasion events. *Biological Conservation* 78:207-214.
- 1995 Carroll, S. P. and Salamon, M. H. Variation in sexual selection on male body size within and between populations of the soapberry bug. *Animal Behaviour* 50:1463-1474.
- Carroll, S. P. and Corneli, P. S. Interpopulation divergence in male mating tactics in the soapberry bug. II. Genetic change and the evolution of a plastic reaction norm in a variable social environment. *Behavioral Ecology* 6:46-56.
In 2014, this paper was the Editor-in-Chief's choice for a celebratory issue of 'influential' articles from the journal's first 25 years.
- Carroll, S. P. Review of *Behaviour and Evolution*, Slater, P. and Halliday, T., eds. *Quarterly Review of Biology* 70:360-361.
- Loye, J. E. and Carroll, S. P. Birds, bugs and blood: avian parasitism and conservation. *Trends in Ecology and Evolution* 10: 232-235.
- 1994 Carroll, S. P. Invertebrate behavior: in from the field and onto the coffee table. Review of Preston-Mafham, R., and Preston Mafham, K. 1993. *The Encyclopedia of Land Invertebrate Behavior*. MIT Press, Cambridge, Mass. *Behavioral Ecology* 5: 460-461.
- McLennan, L., Lake, F., Carroll S. P., Dingle H. and Boyd, C. A genetic model of color polymorphism in the soapberry bug. *Annals of the Entomological Society of America* 87: 936-940.
- 1993 Carroll, S. P. Interpopulation divergence in male mating tactics in the soapberry bug. I. Mate guarding versus not guarding. *Behavioral Ecology* 4: 156-164.

- Carroll, S. P. and Moore L. Hummingbirds take their vitamins. *Animal Behaviour* 46: 817-820.
- 1992 Carroll, S. P. and Boyd, C. Host race radiation in the soapberry bug: Natural history, with the history. *Evolution* 46: 1052-1069.
- Carroll, S. P. and Loye, J. E. Natural selection, competition, and cooperation: human biology and human freedom. Pp. 136-146, in: *Cooperation*, A. Coombs, ed. New York: Gilbert and Breach.
- 1991 Carroll, S. P. The adaptive significance of mate guarding in the soapberry bug, *Jadera haematoloma* (Hemiptera: Rhopalidae). *Journal of Insect Behavior* 4: 509-530.
- Loye, J. E. and Carroll, S. P. The effect of nest ectoparasite abundance on cliff swallow colony site selection, nestling development, and departure time. In: Loye, J. E. and Zuk, M., eds., *Bird-Parasite Interactions: Ecology, Evolution and Behavior*. Oxford Univ. Press.
- 1990 Carroll, S. P. and Loye, J. E. Male-biased sex ratios, female promiscuity, and the evolution of copulatory mate-guarding in an aggregating tropical bug, *Dysdercus bimaculatus*. *Journal of Insect Behavior* 3: 33-48.
- Aldrich, J. R., Carroll, S. P., Lusby, W. R., Thompson, M. J., Kochansky, J. P. and Rudmann, A. A. Sapindaceae, cyanolipids, and bugs. *Journal of Chemical Ecology* 60: 199-210.
- Aldrich, J. R., Carroll, S. P., Oliver, J. E., Lusby, W. R., Rudmann, A. A. and Waters, R. M. Exocrine secretions of scentless plant bugs, *Jadera*, *Boisea*, and *Niesthrea* species (Hemiptera: Heteroptera: Rhopalidae). *Biochemical Systematics and Ecology* 18: 369-376.
- 1988 Carroll, S. P. Contrasts in the reproductive ecology of temperate and tropical populations of *Jadera haematoloma* (Rhopalidae), a mate-guarding hemipteran. *Annals of the Entomological Society of America* 81: 54-63.
- 1987 Carroll, S. P. and Loye, J. E. Specialization of *Jadera* species (Hemiptera:Rhopalidae) on seeds of the Sapindaceae, and coevolution of defense and attack. *Annals of the Entomological Society of America* 80: 373-378.
- 1986 Carroll, S. P. and Loye, J. E. Female dimorphism in a male-monomorphic species. *Evolution* 40: 874-876.
- 1985 Carroll, S. P. and Cramer, K. L. Age differences in kleptoparasitism by laughing gulls (*Larus atricilla*) on adult and juvenile brown pelicans (*Pelecanus occidentalis*). *Animal Behaviour* 33: 201-205.

Opinion

Chew, M. and Carroll, S. P. The invasive ideology. *The Scientist*. <http://the-scientist.com/2011/09/07/opinion-the-invasive-ideology/>

Theses

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- 1991 Microevolution of fitness traits in the soapberry bug, *Jadera haematoloma* (Insecta: Rhopalidae).
- 1983 The ecology of reproductive competition among male *Jadera haematoloma* (Insecta: Rhopalidae).

Scientific Web Sites

-
- 2010 Soapberry Bugs of the World. <http://soapberrybug.org/>
- 2010 Institute for Contemporary Evolution. <http://icEvolution.org>

Scientific Films

-
- 2011 Evolution Island– Sustainable Solutions to Global Challenges.
http://www.instituteforcontemporaryevolution.org/01_cms/details.asp?ID=61

Summit Organized

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- 2010 International Summit: Interdisciplinary Solutions to Evolutionary Challenges in Food, Health and the Environment. Heron Island, Australia.

Summit Participant

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- 2010 Interdisciplinary Solutions to Evolutionary Challenges in Food, Health and the Environment. Heron Island, Australia.
- 2007 Evolutionary Change in Human-altered Environments. Invited speaker and participant. Institute of the Environment, University of California, Los Angeles.

Symposia Organized

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- 2005 Global Change: from Genes to Ecosystems. Organizer and speaker. Annual Meeting of the Entomological Society of America, Ft. Lauderdale, Florida.
- Strategic Conference on Partnerships to Create a New Military Insect Repellent. Organizer and speaker. 180th Meeting of the Armed Forces Pest Management Board and Walter Reed Army Institute of Research, Washington DC.

- 2003 Insect Repellents and Public Health. Organizer and speaker. Annual Meeting of the Society for Vector Ecology, Coeur d'Alene, Idaho.
- 1996 Evolutionary Genetics and Behavior. Organizer and speaker. International Society for Behavioral Ecology, Canberra.

Plenary Addresses

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- 2012 Introduction to symposium on Behavioral Plasticity and Evolution, Animal Behavior Society, Albuquerque.

Keynote Addresses

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- 2012 Fribourg Ecology and Evolution Days 2012 on the theme of "Rapid evolution during biological invasions." University of Fribourg, Switzerland.
- 2010 European Platform for Biodiversity Research Strategy, Palma, Mallorca, Spain: 'Anthropogenic Nature: Working *with* contemporary evolution'

Invited Symposium Participant

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- 2013 Guy Bush and Santa Rosalia: Speciation with gene flow and the extraordinary diversity of insects". Entomological Society of America, Austin (November).
Exchange of Insects between Native and Non-native Plants: Novel Food Webs, Invasions, and Biocontrol. Entomological Society of America, Austin (November).
- 2012 Conservation in a globalizing world. Ecological Society of America, Portland, Oregon.
- 2011 Ecological Novelty Conference, Monte Verita, Switzerland.
- 2010 Current Research Diversity of New Arthropod Repellents, Entomological Society of America, San Diego.
Heteropterists' Conference, Entomological Society of America, San Diego.
- 2008 Insect Invasions and Climate Change, International Congress of Entomology, Durban
Global Insect Repellents Symposium, International Congress of Entomology, Durban
Organismal Ecology and Evolution of Invasive Species, University of Kentucky, Lexington.
- 2007 Insect Repellents, Entomological Society of America, San Diego.
Heteropterists' Conference, Entomological Society of America, San Diego.
- 2006 Evolution on Ecological Time Scales. Japanese Ecological Society, Niigata, Japan.
- 2005 Enhancing Control without Pesticides, American Mosquito Control Association, Vancouver, Canada
- 2004 Genetics of Response to Environmental Change, International Congress of Entomology, Brisbane, Australia.
- 2003 Integrated Approaches to Behavior, Introduction, Annual Meeting of the Animal Behavior Society, Boise, Idaho.
- 2000 Evolution in Invasive Species, Annual Meeting of the Ecological Society of America, Snowbird, Utah.
- 1996 Conservation and Animal Behavior, Animal Behavior Society, Lincoln, NB.

- 1995 Heteropteran Ecology, Entomological Society of America, Las Vegas, NV.
 Rapid Evolutionary Change in Wild Populations, Society for the Study of Evolution,
 Montreal.
- 1993 Geographic Variation in Behavior, Animal Behavior Society, Wilmington, NC.
- 1988 Hemipteran Biology, Entomological Society of America, Louisville KY.
- 1986 Hemipteran Ecology, Entomological Society of America, Reno, NV.

Additional Scientific Papers Presented (* invited)

- 2013 Animal Behavior Graduate Group Seminar Series, UC-Davis.
- 2011 Department of Ecology and Evolutionary Biology, UCLA.
 Department of Ecology and Evolution, UC-davis
- 2009 Society for the Study of Evolution, Moscow, Idaho.
- 2007 *CSIRO Entomology, Canberra and Brisbane, Australia.
 American Mosquito Control Association Annual Meeting, Orlando FL.
- 2006 * Laboratory of Insect Ecology, Center of Excellence, Kyoto University.
 *Center for Population Biology, University of California, Davis.
- 2005 *Armed Forces Pest Management Board (179th meeting), Washington, DC.
 *Department of Biology, University of California–Santa Cruz.
 *Department of Entomology, University of California, Davis.
- 2004 *US Environmental Protection Agency, Biopesticides Division, Washington, DC.
 *Department of Zoology, National University of Taiwan, Taipei.
 *Department of Entomology, National University of Taiwan, Taipei.
 *Alan Fletcher Research Station, Department of Primary Industries, Brisbane.
- 2003 *National Science Foundation, Arlington, Virginia.
 Society for Vector Ecology, Coeur d’Alene, Idaho.
 Animal Behavior Society, Boise, Idaho.
- 2002 *Department of Zoology & Entomology, University of Queensland, St. Lucia.
- 2001 *Department of Biology, University of California–Riverside.
 *Department of Biology, University of Kentucky, Lexington.
 *Department of Entomology, University of Kentucky, Lexington.
- 2000 *US Environmental Protection Agency, Scientific Advisory Panel.
- 1999 *Department of Entomology, University of Arizona, Tucson.
- 1998 *Department of Biology, New Mexico State University, Las Cruces.
 *Center for Animal Behavior, University of California–Davis
- 1997 *Department of Entomology, University of Kansas, Lawrence.
 *California Population & Ecological Genetics Group, University of California-Riverside.
- 1996 *Department of Biology, University of California–San Diego.
 *Department of Biological Sciences, University of California–Santa Barbara.
 International Society for Behavioral Ecology, Canberra.
- 1994 *Department of Biology, University of California–Los Angeles.
- 1993 Animal Behavior Society, Davis, CA.
 *Pacific Coast Entomological Society, San Francisco, CA.
- 1992 Society for the Study of Evolution, Berkeley, CA.
 International Society for Behavioral Ecology, Princeton, NJ.
- 1991 Society for the Study of Evolution, Hilo, Hawaii.
- 1990 *School for Field Studies, Beverly, Mass.

- 1989 *Department of Ecology and Evolutionary Biology, Princeton University
XXI International Ethological Conference, Utrecht, The Netherlands.
- 1988 *Montgomery Research Foundation, Fairchild Tropical Gardens, Miami FL.
2nd International Conference on Behavioral Ecology, Vancouver Canada.
Animal Behavior Society, Missoula, MT.
XVIII International Congress of Entomology, Vancouver, Canada.
Society for the Study of Evolution, Asilomar, CA.
- *Department of Zoology, University of Florida, Gainesville.
*National Audubon Society Research Center, Tavernier, FL.
- 1986 *Animal Behavior Graduate Group, University of California–Berkeley.
- 1985 Entomological Society of America, Hollywood, FL.
Guild of Rocky Mountain Population Ecologists, Ogden, UT.
- 1984 Entomological Society of America, SW Branch, Oklahoma City, OK
- 1982 American Ornithologists' Union, Chicago.

Teaching

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- 2012 Insects and Evolution, Johns Hopkins Center for Talented Youth, University of California–Davis.
- 2006 Insect Conservation Graduate Seminar, University of California–Davis.
- 2005-8 Faculty, Lake Atitlan Tropical Medicine Course (Darwinian Medicine, Disease ecology and biogeography, tropical ecology), Panajachel, Guatemala.
- 2004 Lectures in Senior Ecology and Conservation Ecology courses, University of Queensland.
- 2002 Jungle Medicine: Tropical Disease Ecology for Doctors, Field Course in Belize, University of California-Davis.
- 1998 Population Biology, Graduate Core, University of New Mexico.
- 1997 Insect Biology, University of New Mexico.
- 1993-94 Tropical Field Ecology and Conservation, Belize and Guatemala, Sierra Institute, University California–Santa Cruz.
- 1992 Tropical Field Ecology, Costa Rica, Resource faculty, Organization for Tropical Studies.
- 1990 Tropical Field Ecology, Costa Rica, School for Field Studies.

Press Coverage

-
- 2012 KARE Television, Minneapolis, Minnesota. Minn. mosquitoes draw California researchers. http://www.kare11.com/news/news_article.aspx?storyid=980579.
- 2011 Daily Kos, 8 September. Evolution to the Rescue!
<http://www.dailykos.com/story/2011/09/08/1014513/-Evolution-to-the-rescue!>
OnEarth Magazine, 6 September. Living with Aliens.
<http://www.onearth.org/article/living-with-aliens>
Science Daily, 8 June. Ecology biased against non-native species?
<http://www.sciencedaily.com/releases/2011/06/110608153538.htm>
Yale Environment 360, 24 February. Alien Species Reconsidered: Finding a Value in Non-Natives. Carl Zimmer.
http://carlzimmer.com/articles/index.php?subaction=showfull&id=1299953039&archive=&start_from=&ucat=14&

- Invasivore.org, 24 Feb. The Contribution of Non-natives to Conservation.
<http://invasivore.org/2011/03/the-contribution-of-non-natives-to-conservation/>
- 2010 Evolution and Biodiversity Blog. Video interview at the 2010 European Platform for Biodiversity Research Strategy following keynote presentation.
<http://evolutionandbiodiversity.blogspot.com/>
- 2007 Australian Broadcasting Corporation, Sydney. 'Hope Aussie bug may control balloon vine weed.' Radio interview with current affairs correspondent Simon Lauder, also presented in print at [the ABC](#).
- 2003 ScienceNow (*Science Magazine Online*). 'Evolution Booster', review by correspondent John Pickrell of our 2003 Royal Society paper on unprecedented deep genetic divergence during rapid adaptation of a native insect to an introduced species.

Professional Societies and Organizations

Australian-American Fulbright Association
Entomological Society of America
American Mosquito Control Association
Belize Agroforestry Research Center