

Dr. Ian C. Robertson
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ACADEMIC POSITIONS

Associate Professor

Department of Biological Sciences, Boise State University, Boise, ID 83725 (2005-present)

Assistant Professor

Department of Biological Sciences, Boise State University, Boise, ID 83725 (2000-2005)

POSTDOCTORAL POSITIONS

NSERC Postdoctoral Fellow

Department of Biology, University of Alberta, Edmonton, AB, Canada (1998-2000)

DEGREES

Ph.D. (Biology) – 1998, Simon Fraser University, Burnaby, BC, Canada

M.Sc. (Zoology) – 1992, University of Toronto, Mississauga, ON, Canada

B.Sc. (Honors Biology) – 1989, Carleton University, Ottawa, ON, Canada

AWARDS AND HONORS

2010 – Boise State University, College of Arts and Sciences Distinguished Teaching Award

PROFESSIONAL AFFILIATIONS

Entomological Society of America (1996 to present)

Entomological Society of Canada (1993 to present)

Royal Entomological Society (2000-2009)

SERVICE TO PROFESSION

2011 - Requested by USFWS to review proposed rule which designates critical habitat for *Lepidium papilliferum*. Report submitted June, 2011.

2009 - Requested by USFWS to review and comment on new information and analyses about population processes in *Lepidium papilliferum*. Report submitted March 23, 2009.

2006 - Served as invited expert on scientific panel to discuss extinction risk to slickspot peppergrass, *Lepidium papilliferum*. Meeting was held in Boise, ID, May 1-3, 2006.

2003 - Served as invited expert on scientific panel to discuss extinction risk to slickspot peppergrass, *Lepidium papilliferum*. Meeting was held at the USFWS office in Portland OR, Nov 5-6, 2003.

2004-2006 - secretary/treasurer of BSU chapter of Sigma Xi, The Scientific Research Society

2004-2006 - member of board of trustees for Northwest Science Association

2003 - member of organizing committee for national Animal Behavior Society Meeting at Boise State University

2000 to present - reviewed 28 scientific manuscripts for peer-reviewed journals.

TEACHING EXPERIENCE (Boise State)

BIOL 191 – General Biology I
BIOL 192 – General Biology II (zoology section)
BIOL 426/526 – Insect Ecology
ZOOL 305/305G – Entomology (also listed as BIOL 497/597)
BIOL 598 – Graduate Seminar (Topics: pollination biology; evolution of flight; evolution of insect societies; insect mating systems; animal societies)

Douglas D, **Robertson IC** & S Billinge. 2008. Custom Biology B.192 Lab Manual, McGraw Hill. I authored chapters 8-14 (pp 163-288, including 7 custom illustrations).

SCIENTIFIC PRESENTATIONS

Invited Speaker

- Robertson IC & JP White. “Seed predation by Owyhee harvester ants threatens the survival of slickspot peppergrass, a rare Idaho endemic”. Intermountain Native Plant Summit 2009, Boise, ID, March 24-26, 2009
- Robertson IC & JP White. “Harvester Ants: Implications for *Lepidium papilliferum*”. Idaho Rare Plant Conference, Boise ID, Feb 10-12, 2009
- Robertson IC. “Insect-mediated pollination in *Lepidium papilliferum*”. BLM workshop on pollinators and conservation. Boise, ID, Feb 21, 2008.
- Robertson IC, Ulappa AC & S Billinge. Insect-mediated pollination and spatial structuring in *Lepidium papilliferum* populations. Invited symposium presentation at the 88th Annual Meeting of the American Association for the Advancement of Science Pacific Division, Boise ID, June 17-21 2007.
- Stillman A, Novak SJ, Robertson IC & JF Smith. Population genetics of a rare polyploidy, *Lepidium papilliferum* (Brassicaceae), a Southwest Idaho endemic. Invited symposium presentation at the 88th Annual Meeting of the American Association for the Advancement of Science Pacific Division, Boise ID, June 17-21 2007.
- Smith JF, Stillman AJ, Larson SR, Culumber CM, Robertson IC & SJ Novak. A phylogenetic analysis of *Lepidium papilliferum* and *L. davisii* (Brassicaceae) reveals the relations of these rare endemic species. Invited symposium presentation at the 88th Annual Meeting of the American Association for the Advancement of Science Pacific Division, Boise ID, June 17-21 2007.
- Robertson IC. “Visitation versus Pollination: Measuring the relative contributions of insects to the pollination of slickspot peppergrass”. Idaho Rare Plant Conference, Boise, ID, Feb 2004

Selected Conference Presentations

- White JP & IC Robertson. “Seed predation on slickspot peppergrass, *Lepidium papilliferum* (Brassicaceae), by the Owyhee harvester ant, *Pogonomyrmex salinus* (Hymenoptera: Formicidae)”. Society for Integrative and Comparative Biology Annual Meeting, Boston MA, Jan 3-7, 2009
- White JP & IC Robertson. “Seed predation on slickspot peppergrass, *Lepidium papilliferum*, (Brassicaceae), by the Owyhee harvester ant, *Pogonomyrmex salinus* (Hymenoptera: Formicidae). Entomological Society of Canada Annual Meeting, Ottawa, ON, Oct 19-22, 2008.

- Williams WI & IC Robertson. "Using rotary flight mills to quantify fat use by Douglas-fir beetles, *Dendroctonus pseudotsugae*. 58th Annual Western Forest Insects Work Conference, Boise ID, March 5-9, 2007.
- Stillman A, Robertson IC, Smith JF & SJ Novak. Assessing allozyme diversity and polyploidy in the rare southwestern Idaho endemic, *Lepidium papilliferum*. Botanical Society of America Annual Meeting, Chicago IL, July 7-11, 2007.
- Billinge S & IC Robertson. Reproductive success as a function of outcrossing distance in *Lepidium papilliferum*. Northwest Science Annual Meeting, Boise ID, March 6-8 2006
- Leavitt H & IC Robertson. Petal herbivory by chrysomelid beetles (*Phyllotreta* sp.) is detrimental to pollination and seed production in *Lepidium papilliferum* (Brassicaceae). Northwest Science Annual Meeting, Boise ID, March 6-8 2006
- Stillman A, Robertson I, Smith JF, & SJ Novak. Allozyme diversity in *Lepidium papilliferum* (Brassicaceae), a southwest Idaho endemic. Northwest Science Annual Meeting, Boise ID, March 6-8 2006
- Williams WI & IC Robertson. "Using rotary flight mills to quantify fat use by Douglas-fir beetles, *Dendroctonus pseudotsugae*. Northwest Science Annual Meeting, Boise ID, March 6-8 2006
- Stillman A, Robertson I, Smith JF, & SJ Novak. Allozyme diversity in *Lepidium papilliferum* (Brassicaceae), a southwest Idaho endemic. Botanical Society of America Annual Meeting, Austin, TX, Aug 13-17, 2005
- Williams WI & IC Robertson. "Emergence day and body condition correlate with amount of fat in Douglas-fir beetles (*Dendroctonus pseudotsugae*)" at the Entomological Society of Canada annual meeting in Canmore, AB, Nov 2-5, 2005
- Leavitt H & IC Robertson. "Measuring the relative importance of insect visitors to the pollination of slickspot peppergrass, *Lepidium papilliferum*". Annual meeting of the Entomological Society of America, Cincinnati, OH, 26-29 October, 2003.

PUBLICATIONS

- Robertson IC** & H Leavitt. 2011. Relative contributions to seed production by floral visitors of slickspot peppergrass, *Lepidium papilliferum* (Brassicaceae). Arthropod-Plant Interactions, DOI 10.1007/s11829-011-9142-7
- White JP & **IC Robertson**. 2009. Intense seed predation by harvester ants on a rare mustard. *Écoscience*, 16(4): 508-513.
- White JP & **IC Robertson**. 2009. An unusual life history strategy in *Lepidium papilliferum* (Brassicaceae), a rare mustard endemic to southwestern Idaho. *Northwest Science*, 83(3): 287-290.
- Smith JF, Stillman AJ, Larson SR, Culumber CM, **Robertson IC** & SJ Novak. 2009. Phylogenetic Relationships among *Lepidium papilliferum* (L. Henderson) A. Nels. & J. F. Macbr., *L. montanum* Nutt., and *L. davisii* Rollins (Brassicaceae). *Journal of the Torrey Botanical Society*, 136(2):149-163.
- Billinge S & **IC Robertson**. 2008. Spatial structure and inbreeding depression in slickspot peppergrass, *Lepidium papilliferum* (Brassicaceae). *Botany*, 86: 1002-1008.
- Williams WI & **IC Robertson**. 2008. Using automated flight mills to manipulate fat reserves in Douglas-fir Beetles, *Dendroctonus pseudotsugae* (Hopkins) (Coleoptera: Curculionidae). *Environmental Entomology*, 37: 850-856.
- Leavitt H & **IC Robertson**. 2006. Petal herbivory by chrysomelid beetles (*Phyllotreta* sp.) is detrimental to pollination and seed production in *Lepidium papilliferum* (Brassicaceae). *Ecological Entomology*, 31: 657-660.

- Robertson IC** & D Klemash-Maguire. 2005. Crab spiders deter insect visitations to slickspot peppergrass flowers. *Oikos*, 109: 577-582.
- Robertson IC** & AC Ulappa. 2004. Distance between pollen donor and recipient influences fruiting success in slickspot peppergrass, *Lepidium papilliferum*. *Canadian Journal of Botany*, 82: 1705-1710.
- Robertson IC**. 2004. Importance of outcrossing for fruit production in slickspot peppergrass, *Lepidium papilliferum* L. (Brassicaceae). *Western North American Naturalist*, 64: 265-268.
- Robertson IC** & D. Klemash. 2003. Insect-mediated pollination in slickspot peppergrass, *Lepidium papilliferum* L. (Brassicaceae), and its implications for population viability. *Western North American Naturalist*, 63: 333-342.
- Robertson IC**. 2000. Reproduction and developmental phenology of *Ips perturbatus* (Coleoptera: Scolytidae) inhabiting white spruce. *Canadian Entomologist*, 132: 529-537.
- Roitberg BD, **Robertson IC** & JGA Tyreman. 1999. Vive la variance: a functional oviposition theory for insect herbivores. *Entomologia Experimentalis et Applicata*, 91: 187-194.
- Robertson IC** & BD Roitberg. 1998. Duration of paternal care in pine engraver beetles: why do larger males care less? *Behavioral Ecology & Sociobiology*, 43: 379-386.
- Robertson IC**. 1998. Paternal care enhances male reproductive success in pine engraver beetles. *Animal Behaviour*, 56: 595-602.
- Robertson IC**. 1998. Flight muscle changes in male pine engraver beetles during reproduction: the effects of body size, mating status and breeding failure. *Physiological Entomology*, 23: 75-80.
- Robertson IC**, Robertson, WG & BD Roitberg. 1998. A model of mutual tolerance and the origin of communal associations between unrelated females. *Journal of Insect Behavior*, 11: 265-286.
- Robertson IC**, Roitberg BD, Williamson I & SE Senger. 1995. Contextual chemical ecology: an evolutionary approach to the chemical ecology of insects. *American Entomologist*, 41: 237-239.
- Bouskila A, **Robertson IC**, Robinson ME, Roitberg BD, Tenhumberg B, Tyre AJ & E vanRanden. 1995. Submaximal oviposition rates in a mymarid parasitoid: choosiness should not be ignored. *Ecology*, 76: 1990-1993.
- Robertson IC**. 1995. Extra-pair copulations in burying beetles (Coleoptera: Silphidae). *Journal of the Kansas Entomological Society*, 67: 418-420.
- Robertson IC**. 1993. Nest intrusions, infanticide, and parental care in the burying beetle, *Nicrophorus orbicollis* (Coleoptera: Silphidae). *Journal of Zoology, London*, 231: 583-593.
- Robertson IC**. 1992. Relative abundance of *Nicrophorus pustulatus* (Coleoptera: Silphidae) in a burying beetle community, with notes on its reproductive behavior. *Psyche*, 99: 189-198.
- Robertson I.C.** & PJ Weatherhead. 1992. The role of temperature in microhabitat selection by northern water snakes (*Nerodia sipedon*). *Canadian Journal of Zoology* 70: 417-422.
- Weatherhead, P.J. & **I.C. Robertson**. 1992. Thermal constraints on swimming performance and escape response of northern water snakes (*Nerodia sipedon*). *Canadian Journal of Zoology* 70: 94-98.
- Weatherhead, P.J. & **I.C. Robertson**. 1990. Homing to food by black rat snakes (*Elaphe obsoleta*). *Copeia* 1990: 1164-1165.