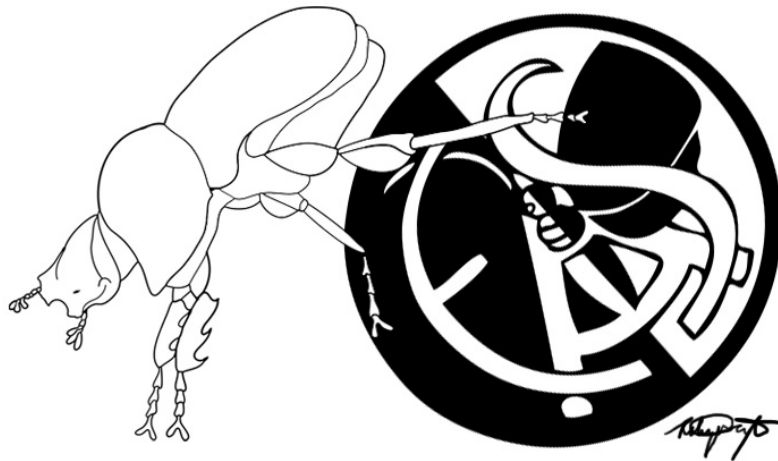


64th Annual Meeting of the Entomological Society of Alberta

27-29 October 2016
University of Calgary



Local Organizing Committee: John Swann (Chair), Ralph Cartar, Megan Evans, Paul Galpern, Rob Longair, Haydee Peralta-Vazquez, Mary Reid, Jenn Retzlaff, Sam Robinson, Riley Waytes

We greatly appreciate the financial support from the University of Calgary's Vice-President (Research), Faculty of Science, and the Department of Biological Sciences.

Entomological Society of Alberta

Executive: Shelley Hoover (President); Ralph Cartar (Vice-President); John Swann (Past-President); Ken Fry (Secretary); Caroline Whitehouse (Treasurer)

Council: Sarah McPike (Northern Director); Mark Oliver (Central Director); Megan Evans (Southern Director); Tonya Mousseau (Editor of Proceedings); Rob Longair (Regional Director to the Entomological Society of Canada)



**UNIVERSITY OF
CALGARY**

Thursday, 27 October 2016

5:00 - 7:00 pm Board of Directors meeting

Last Defence Lounge, 350 MacEwan Student Centre, University of Calgary

7:00 - 10:00 pm **Mixer and Registration**

Last Defence Lounge, 350 MacEwan Student Centre, University of Calgary

Friday, 28 October 2016

BI 211, Biological Sciences Building, University of Calgary

8:30 **Keynote Speaker: Dr. Cory Sheffield**, Royal Saskatchewan Museum

Review of Bee Systematics, Ecology and Conservation in Canada

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| 9:30 | Sosiak, C.: Urban ant biodiversity: a survey of ants in Calgary's urban parks |
| 9:45 | Swann, J.E. The Kananaskis Bioblitz: lessons learned |

10:00 - 10:30 Refreshment Break

Biodiversity

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| 10:30 | Acorn, J.H. What can folk taxonomy teach us about entomological teaching and outreach? |
| 10:45 | Bercha, R.L. Rings and wings: Observations from a nest of the Western Yellowjacket, <i>Vespula pensylvanica</i> (Hymenoptera: Vespidae) |
| 11:00 | Glass, H., Carroll, E., Curley, D., Kienzle, H., Vamosi, S., and Yee, D. A barcoding approach to phylogenetic classification of mosquitoes (Aedini: Aedes, Ochlerotatus) |
| 11:15 | Arachchige, P.L., Brunet, B., and Sperling, F.A. Genome-wide exploration for genes underlying spruce budworm wing pigmentation (Lepidoptera: Tortricidae) |
| 11:30 | Perry, A., Swann, J. and Wildering W. Prevalence of auto-fluorescent proteins and phylogenetic significance of resilin in the family Milichiidae |
| 11:45 | Best, L.R. Notes on the Alpine Pollinator Fauna of Mount Tod in the Shuswap Highland, BC, Canada |

12:00 - 1:00 Lunch

Posters

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| Brunet, B.M.T., Shpeley, D., and Sperling, F.A.H. Crowdsourcing carabid collections. |
| De Clerck-Floate, R. Does timing of release matter in early establishment of a galling insect for yellow toadflax biocontrol? |
| Carscallen, G., Nichols, G., Novotny, V., Volf, M., Miller, S., Teixeira-Anderson, K and Klimes, P. Location, location, location: examining arboreal ant nest distributions in felled trees near Toms Brook, Virginia, USA |

Friday, 28 October 2016 cont'd

Spatial and Temporal Ecology

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| 1:00 | Meehan, M, Song, Z, Cobb, T, Lumley, L, and Proctor, H. The effect of environmental and spatial processes on oribatid mite assemblages across provincial and regional scales in Alberta, Canada |
| 1:15 | Duffton, S., Otani, J., Laird, R. Effects of crop rotation and canopy cover on assemblages of ground beetles (Coleoptera: Carabidae) in the Peace River Region |
| 1:30 | Punko, R.N. and Cartar, R.V. The importance of matrix and corridors for non-native <i>Pterostichus melanarius</i> (Carabidae; Coleoptera) in an agro-ecosystem |
| 1:45 | MacDonald, Z.G., Anderson, I., Acorn, J.H., and Nielsen, S.E. Beyond island biogeography: using butterfly assemblages on lake islands to test two competing hypotheses explaining species diversity on fragmented landscapes |
| 2:00 | Wilches, D., Laird, R., Floate, K., Fields, P. Survival of <i>Trogoderma granarium</i> (Coleoptera: Dermestidae) at extreme temperatures |
| 2:15 | Kutby, R., Cartar, R.V. Colony development in bumble bees: A test of the food availability and food continuity hypotheses |
| 2:30 | Cartar, R.V. and Lindeman, J. Resource-tracking by bumble bees: Insights from spatial competition for fireweed |

2:45 - 3:15 Refreshment Break

Forest Health

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| 3:15 | Goulding, M., LaMontagne, J., and Reid, M. Traits of white spruce that predict attack and success of spruce beetles |
| 3:30 | Murphy, W. and Reid, M. The role of tree diameter in host orientation of mountain pine beetle |
| 3:45 | Reid, M.L., Alcock, J., Sekhon J., and Wilkinson, K. Hiding in plain sight: prospects of benign bark beetles killing trees in a new climate. |
| 4:00 | Ahn, S. and Reid, M.L. Physiological condition of mountain pine beetle and their ability to survive monoterpenes |
| 4:15 | Sjolie, D.M., Batallas, R., Hoefele, D., Arachchige, P., Saran, C., Keddie, B.A., MacQuarrie, C.J.K., Evenden, M.L. The sublethal effect of microsporidian infection on flight capacity of the forest tent caterpillar, <i>Malacosoma disstria</i> (Lepidoptera: Lasiocampidae) |
| 4:30 | Shegelski, V., Evenden, M., Sperling, F.A.H. Morphology and gene expression associated with dispersal capability in mountain pine beetle (<i>Dendroctonus ponderosae</i>) |
| 4:45 | Peralta-Vazquez, G.H. and Reid, M. Drivers don't care about their hitchhikers: phenotype-dependent dispersal of mountain pine beetle and the costly consequences for its ectosymbionts |
| 5:00 | Sperling, F.A.H. and Dupuis, J.R. Phylogeny and species delimitation of the spruce budworm group: A historical perspective |

Banquet (Atrium of the Administration Building, University of Calgary)

Cash Bar/Drinks 5:30-6:30pm

Banquet Dinner 6:30-9:00pm

Banquet Speaker: Ben Gadd

Icefield Bunnies, Gullible Bees and Why the Tallest Mountain is Not the Highest

Saturday, Oct 29, 2016

Pollinators & canola

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| 8:30 | Waytes, R., Cartar, R., and Hoover, S. Are bees ideal and free? The role of competitor density and floral rewards in patch selection of managed pollinators in a gynodioecious crop system |
| 8:45 | Robinson, S.V.J., Cartar, R.V., Pernal, S.F. and Hoover, S.E.R. The spatial distribution of central place foraging pollinators in mass-flowering crops |
| 9:00 | Retzlaff, J.L., Galpern, P., Cartar, R.V. Bumble bee responses to landscape depend on body size in a prairie agro-ecosystem |
| 9:15 | Grocock, N. L., Batallas, R., Sturm, A., Manson, J., and Evenden, M. L. Bumblebee (<i>Bombus</i> spp.) bycatch in moth pheromone traps positioned in canola and wheat crops of central Alberta, Canada |
| 9:30 | Galpern, P., Johnson, S.A., Retzlaff, J. L., Chang, D., Swann, J. High-intensity canola cultivation: an ecological trap for bumble bees? |

10:00 - 10:15 Refreshment Break

Food, smells, and life (history)

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| 10:15 | Thomson, D. Mating disruption 50 years on: pheromones coming of age - finally! |
| 10:30 | Nieman, C, and Floate, K.D. LongRange® (eprinomectin), faecal residues, and dung-breeding insects |
| 10:45 | Jorgensen, A., Otani, J., Evenden, M. Sex pheromone monitoring of wheat midge: efficacy of commercially available lures and traps |
| 11:00 | McPike, S., Evenden, M. Effects of nutritional provision and volatile plant chemical lures on parasitism of <i>Caloptilia fraxinella</i> by <i>Apanteles polychrosidis</i> on green ash in Edmonton |
| 11:15 | Mader, C., Erbilgin, N., and Watts, J. Parasitic wasp Sudoku: Field studies of the life history of <i>Coccophagus gossypariae</i> |

11:30 - 12:30 Annual General Meeting