

# BEEKEEPING FOR THE FUTURE

## THE 14 ANNUAL INTEGRATED PEST MANAGEMENT WORKSHOP

February 9 – 10, 2016

Alberta Beekeepers Commission and Alberta Agriculture and Forestry annually sponsor the IPM workshop for Integrated Pest Management Workshop. Once again it is time to get an update of what is new in the bee world. A line up of speakers from the USA, Europe, and Canada will cover a wide array of subjects including bee health, viruses, Nosema, Varroa mites, Small Hive Beetle, Neonicotinoids, healthy environment, colony management and bee nutrition. Development of new miticides will be also included. We are pleased to confirm: Professor Dr. Joachim de Miranda, Swedish University of Agricultural Sciences, Sweden; Professor Reed Johnson, The Ohio State University; Professor Valérie Fournier, University of Laval, currently a visiting scientist at University of California, Davis; Dr. Pernal, Stephen, Research Scientist, Apiculture, Officer-in-Charge, Beaverlodge Research Farm, Beaverlodge and a commercial beekeeper.

Location: Executive Royal Inn, West Edmonton,  
10010 – 178 Street Edmonton AB T5S 1T3  
780 484 6000 Toll Free 1 800 661 4879

Registration Forms can be found at  
[www.albertabeekeepers.org](http://www.albertabeekeepers.org)

## IPM Guest Speakers

This year we have excellent speakers.

Professor Dr. Joachim de Miranda, Swedish University of Agricultural Sciences, Sweden. The Honeybee Research Group at Swedish University of Agriculture is internationally renowned for its work on honeybee pathology, especially microsporidia (Nosema), bacterial diseases (American and European foulbrood), parasitic mites (Varroa, Acarapis) and viruses. The current focus of the group is on the interactions between different parasites, pathogens and pesticides in relation to individual bee and colony health. Dr. de Miranda interest is honeybee viruses, in particular the genetic composition and variability of virus population, the relevance of this variability for the adaptation and pathology of the viruses at individual bee and colony level, the effect of virus infections on the social immune systems of the bee and the interactions of viruses with other pathogens and parasites.

Professor Reed Johnson, The Ohio State University. Insect pollinators are vital for the production of many crops. These crops are also vulnerable to pests and diseases, which are often controlled through the use of pesticides. The challenge is that pesticides may be toxic to insect pollinators, setting up a conflict between the need for pollination and the need for pest and disease control. Dr. Johnson seeks in his research program to understand how to protect pollinators from the pesticides and other toxins they encounter. He also determines the exposure and effects of corn seed treatment insecticides to honey bees.

Professor Valérie Fournier, University of Laval Currently a Visiting Scientist at University of California, Davis. Dr. Fournier interest is focused on studying the effects of sublethal neonicotinoid exposure on brain state and behaviour of honey bee workers. She also studies accumulation of residues of pesticides in the environment. Her research includes mitigation of bees' exposure to pesticides to reduce impacts on bees and other pollinators.

Dr. Pernal, Stephen, Research Scientist, Apiculture, Officer-in-Charge, Beaverlodge Research Farm, Beaverlodge, Canada. Dr. Pernal research focus is on management and detection of honey bee diseases, detection and reduction of antibiotic residues in honey, control of parasitic mites, American foulbrood and nosema of honey bees. Currently, he is involved in devising therapies and management strategies for the control of Nosema ceranae as well as co-leading a Genome Canada project evaluating markers for resistance to AFB and V. destructor. Dr. Pernal is also on the advisory committee of the National Diagnostic Centre in Beaverlodge.

A commercial beekeeper (To be announced). He will share his experience on how to run healthy sustainable bee operation.