

CONFERENCE
PROGRAMME

2015

EASTERN APICULTURAL SOCIETY ANNUAL CONFERENCE

UNIVERSITY OF GUELPH
ONTARIO, CANADA



EAS ONTARIO
2015





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EAS ONTARIO AT A GLANCE

SUNDAY	Registration 3:00-7:00 PM
MONDAY	<ul style="list-style-type: none"> • Registration 7:30 AM-4:00 PM • Short Course 8:00 AM-4:15 PM • Beeyard open all day • Bee Olympics 4:30-5:30 PM
TUESDAY	<ul style="list-style-type: none"> • Registration 7:30 AM-4:00 PM • Short Course 8:30 AM-4:15 PM • Beeyard open all day • Vendors 10:00 AM-4:15 PM • Propolis, Etc... BBQ & Social 5:30 PM
WEDNESDAY	<ul style="list-style-type: none"> • Registration 7:30 AM-5:00 PM • Short Course 8:00 AM-5:00 PM • Conference 8:00 AM-5:00 PM • Vendors 9:00 AM-5:00 PM • Panel Discussion - Emerging Issues in Pollinator Health 7:30-9:30 PM
THURSDAY	<ul style="list-style-type: none"> • Registration 8:00-9:30 AM • Vendors Closed • Tech Tour 9:00 AM-5:30 PM • Dinner, Social & Auction 5:30-9:30 PM @Dutchman's Gold & Tuckamore Bee Company
FRIDAY	<ul style="list-style-type: none"> • Registration 8:30 AM-Noon • Conference 8:00 AM-5:00 PM • Vendors 9:00 AM-3:00 PM • Banquet & Awards Ceremony 6:00-9:30 PM

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**EAS ONTARIO
2015**



Welcome to Guelph! And if you've come from south of the border welcome to Canada! We are honoured to be hosting EAS 2015. A great deal of planning has finally come to fruition here at the University of Guelph. On behalf of the planning committee, I want to thank you for choosing to attend this year's event. It's you and your support that makes EAS able to play such a vital role in the beekeeping community here in North America. Beyond the lectures and workshops offered in one of its 26 member states or provinces in the eastern U.S. and Canada, EAS sponsors awards to deserving bee researchers and graduate students and offers research grants for applied research projects. As a Director of the Ontario Beekeepers' Association I can tell you that the funds and awareness raised at this year's conference will go a long way to support the work we do here in Ontario and beyond. So please sit back, relax, enjoy the programme we have put forward for you, and Learn, Protect, and Connect!

André Flys
EAS President

**Please visit our vendors
and thank them for their
support. The vendor
area is open Tuesday,
Wednesday, and Friday.**

EAS 2015 Vendors

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Welcome to EAS Ontario! I had heard wonderful stories of the last time EAS was at the University of Guelph, and the 2015 Ontario Team has not let us down. They have a wonderful week in store for you.

I am not going to overwhelm you with the multitude of activities that are planned for you this week. This program guide says it all. Nor will I drone on regarding the skills and teaching ability of the Tech Transfer Team and the excellent list of Canadian and international speakers whom Ernesto Guzman and Les Eccles have assembled for you. The evening and many social events are brought to you by André Flys and the Ontario Beekeepers' Association (OBA). Do not miss the Wednesday night panel discussion on Pollinator Health Issues—the OBA is perhaps the most successful organization in North America to work with their state or provincial government to regulate pesticides harmful to our honey bees. Plus, you can show off your prowess at the Bee Olympics or just relax and exchange ideas with fellow beekeepers on the bus during the Thursday Tech Tour. Take time to taste some award-winning wines, meads, and micro-brews, while soaking up all of that knowledge from the lectures, workshops, and demonstrations.

I have two goals for you this week—to learn and have fun. The Ontarians have planned an edifying, energizing, rich, slightly intoxicating, and enjoyable experience for you. On the other hand, if you do have a gripe, if you find yourself unable to attend a session of your choice because a room is already full, if you are from a state that does not have the same charm and respect for other people as Ontario, or if you are getting yourself all in a fizz and want to spread it around, come see me first—do not go off half-cocked and complain to other attendees or the EAS staff. Our conference volunteers have taken time off from their jobs and beekeeping chores to welcome you. Be nice to them and thank them for their help.

EAS Ontario is my swan song. I have served as your chairman for eight years (and eight conferences), and now it is time to turn over the reins of leadership to a new administration. This week, please take the time to meet Erin MacGregor-Forbes, Jeff Burd, Carol Cottrill, and Jacky Hildreth, the incoming Chair, President, Secretary, and Treasurer, respectively. We will be passing the gavel to them at the Friday night banquet and award ceremony. They are filled with ideas and energy—the conference planning for the next few years is already underway!

What I enjoy the most at each conference is the opportunity to meet and talk with each you. So stop in, say hello, and catch up. I will most often be around the registration desk—ask for me there. If this is your first time at an EAS event, look me up, and I will introduce you to some of the most exciting people in the world. As always, if you have any problems or suggestions to make EAS conferences even better, let me know. At the end of the week, we want you to leave with your noggin filled with information and fun times. Cheers.

Jim Bobb
EAS Chairman



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Sentinel Apiary

The Sentinel apiary monitors honey bee health in real-time using hive scales to track colony weight gain or loss, monthly disease assessments, and traps that collect pollen to determine available plant forage. The scale data is automatically transmitted to our servers and the patterns of nectar flow mapped with alerts to beekeepers due to increases in disease or lack of nutritional resources. The **Sentinel Hives** will allow us to develop *data driven best management practices for beekeepers in real time*, improving honey bee health for all beekeepers.

Remote Tech Teams

Some beekeepers keep bees in places so isolated from other beekeepers that the traditional tech team model would not be economically feasible. We offer this training for those larger (500+) operations who are not near our traditional tech teams but still want to be a part of the BIP team. **Come by our booth and ask us about this!**



For more details and on these and other information, go to www.BeeInformed.org

•••• Stop by and Visit with us at Our EAS booth! ••••

Using Beekeepers' real world experiences to solve Beekeepers' real world problems



Tech Tour

Thursday, August 13

Niagara Falls ©Niagara Parks Commission

On Thursday, join us to experience the sights of Niagara and a couple of the largest beekeeping operations in Ontario. Everyone will be bussed, so no worries about maps, carpooling, or sampling a little mead, wine or local beer.

The Thursday Tech Tour is included in the price of the Wednesday through Friday Conference registration, or the Tour can be purchased as a single day registration on Thursday for US\$100.

The Tour includes five stops: Parker-Bee Apiaries, the Niagara Butterfly Conservatory, Niagara Falls, lunch and tour at Niagara College and BBQ dinner, auctions and entertainment at Dutchman's Gold. This promises to be an interesting day that you won't want to miss. Register early, as space is limited.

Parker-Bee Apiaries All about the Bees Tour one of Ontario's largest apiary, Parker-Bee Apiaries, where owner Mike Parker and the Ontario Beekeepers' Association have been working to develop an innovative ozone unit to clean old comb. You'll also see Parker's unique pallet system for shipping hives for pollination.

We'll stop and see **Niagara Falls**, one of the great natural wonders of the world.

We'll visit the **Niagara Butterfly Conservatory** with over 2,000 colourful tropical butterflies floating freely among lush, exotic blossoms and greenery. Paths wind through the rainforest setting, past a pond, waterfall, and the emergence window, where butterflies leave their pupae and prepare to take their first flight! More than 45 species of butterflies call this beautiful space home.

Take advantage of lunch. Tour of the teaching winery and brewery facilities and the gardens, greenhouses and grounds at beautiful Niagara College at the **Niagara-on-the-Lake campus**, which will soon be home to Canada's first commercial beekeeper program.

Niagara College is nestled against the Niagara Escarpment — a **UNESCO world biosphere reserve** in the heart of Niagara's wine region. At this stop, you'll enjoy lunch provided by Niagara College culinary program students using seasonal produce grown in the culinary garden, which showcases vegetables, small fruits, herbs, and edible flowers.

The grounds also offer a lush Aboriginal Garden, planted near the wetland system to demonstrate the importance of native plants for ceremonial, food, medicinal, and other needs of Aboriginal groups in Canada, and a teaching Hop Yard (with 17 hop varieties), a living lab for the Brewmaster and Brewery Operations Management program at Niagara College. Beer and wine tastings will be available.

Your day will end with a BBQ dinner, silent and queen auctions, and live entertainment graciously hosted by John and Alison Van Alten at **Dutchman's Gold Honey and Maple Products**. Take advantage of this rare opportunity to visit the honey house of one of Ontario's best-known apiaries, a family business since 1981. Dutchman's Gold Staff (John and Alison Van Alten on left)



©Niagara Park Commission



ONTARIO BEEKEEPING HISTORY

Excerpt from
History of Beekeeping in Ontario

Written by Gordon F. Townsend, compiled by
Henry T. Hiemstra
Published by Ontario Beekeepers' Association,
November 2006

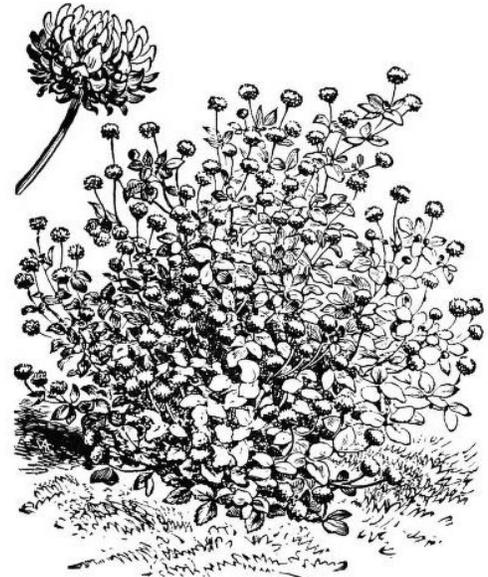


Fig. 159.
ALSIKE CLOVER.
(From Vilmorin-Andrieux, Paris.)

Beekeeping was practically unknown on the American continent before the coming of Europeans. The only known honey was produced in very small quantities in Central America from stingless bees. By 1650, nearly every farm in the areas of North America occupied by settlers used honeybees as their major source of sweet. The first bees brought to America likely arrived with the early Dutch settlers. They were dark bees, very subject to swarming. They became widely distributed throughout both North and South America. In later years, they also proved to have very little resistance to wax moth and Foulbrood. These detrimental characteristics no doubt delayed somewhat the development of beekeeping as a viable industry in Ontario. It was not until the introduction of the light-coloured bee from Italy that many of these problems were overcome.

The first historical record in Ontario about bees is from the Huron and Wyandot mythology, as recorded by Barbeau of the National Museum in Ottawa. It is the story of an old Indian from Essex Peninsula. He was pointing out to his children an insect, the honeybee, and explained that the white man is not far away, since this strange fly-like insect was brought by the white man.

One of the earliest references to beekeeping in Ontario was to those kept in the Bay of Quinte area in 1830. These had likely been brought by the first Loyalist settlers, who had come to the Bay of Quinte and the Niagara areas in the 1780s.

Losee, an old time beekeeper from Cobourg, reported that, as early as 1830, bees were plentiful in Prince Edward County—both wild and domesticated. He recorded that, in that year, his two uncles lost all their bees that they kept in sheds. The loss was likely due to wax moth and Foulbrood. Norman Jones, the father of D.A. Jones, was reported to have had great difficulty with this moth and lost all his hives. Bee hunting was almost as important as game hunting at the time, and Norman Jones was known as one of the best. After 1864, many articles appeared in journals, arguing methods of management.

It was likely the two writers from U.S., Quinby and Langstroth, most influenced the early development of beekeeping in Ontario. Quinby started beekeeping in New York state in 1818, and Langstroth in Massachusetts in 1837.

The Canada Farmer of 1864 was the first farm paper to carry articles on apiculture, and the industry developed from that period.

H.G. Sibbald discussed his recollection of early beekeeping at a convention in 1929. He described the conditions of the 1890s. There were not very many good beekeepers. Most of the bees were kept in box



hives. Some had bought so-called patent hives, but most did not know how to use them and ended up not much better off than if they had used a box hive. Many thought that production of swarms was good beekeeping, and the earlier you produced them the better. Watching for swarms was the main management activity. Even on a Sunday, you might be called from church to tend a swarm. The honey was often extracted from brood combs, and it was necessary to learn just how fast to turn the extractor to avoid mixing the brood with the honey. Honey was extracted about every five days, thus much of it was very high in moisture content.

Beekeeping in Ontario, for more than one hundred years, was tied very closely to the Ontario Agricultural College at Guelph, now part of the University of Guelph. When the Department of Apiculture was formed, it housed the Secretary of the Ontario Beekeepers' Association, the office of the provincial Apiarist, the head of the department, and the Professor of Apiculture. All of the research, teaching, extension, and regulatory work for the Province of Ontario emanated from this group. At times, all of these positions were held by the Head of the Department. This was unique from the procedure followed in other provinces and states, likely due to the fact that, up until the formation of the university in 1964, all expenses were born directly by the Government of Ontario, through the Ministry of Agriculture. This arrangement no doubt played a great part in the success and recognition of the Department. It was much easier to coordinate and carry on the various duties, no doubt at lower overall cost.

The work of the Department over the years has been determined by the problems of an industry that has had many ups and down, usually associated with trends in agricultural crops.

Beekeeping expanded rapidly during the 1920s and 30s to develop a thriving industry in Ontario. It reached a climax in 1938, with a production exceeding 24 million pounds. Since that time, production and marketing have been very erratic, with production declining in Ontario and increasing in Western Canada. The causes of this decline in Ontario are closely tied to changes in agricultural practices. During the 20s and early 30s, there was abundant Sweet Clover. This crop

was the major producer of honey in that period. It reached a peak of 400,000 acres in 1928, decreasing to less than 100,000 acres by 1947. From that time on, the decrease was rapid that no statistical records were kept. Alsike, another major producer, decreased from 200,000 acres in 1929 to less than 30,000 by 1942. Buckwheat, another good honey producer, reached 300,000 decreasing to 50,000 acres by 1952. By 1961, buckwheat was almost nonexistent. During this same period, hedgerows were removed to accommodate larger equipment, and roadsides were sprayed, thus removing much of the wild sources of honey. Balers and forage harvesters were introduced, thus removing most of the clover that was left before it came into bloom. Birdsfoot Trefoil and White Ladino Clover were introduced, neither of which were good honey producers in Southern Ontario. The introduction of corn, planted continually on the same fields, struck the final blow. Unless a good honey plant is introduced into the farming economy, such as Canola, only the exceptional year will yield 9 million pounds.

The wartime rationing of honey and sugar had a temporary effect. The number of beekeepers and colonies reached an all-time high. By 1947, 221,000 colonies and 7,000 beekeepers were registered. Before honey was rationed, there were long lineups at beekeepers' honey houses to buy fresh honey. So difficult did the traffic become in some places, that police were brought in to keep it under control.

Following the wartime rationing of sugar, the interest in beekeeping diminished. In 1958, there were 135,000 colonies operate by 3,126 beekeepers. About this time, Vernal Alfalfa came into use. It was a good honey producer, and crops in many areas started to increase. It was short lived, as large acreages were then being turned over to corn.

It was considered advisable to cover the history under subjects, rather than chronologically, even though this has created some duplication and cross reference. I must apologize if parts of the text appear as autobiography. This was almost inevitable, as I have been association with the industry in one way or another for the past sixty years, and much of the content is derived from my own recollections.



The Fathers of Beekeeping in Ontario

D.A. Jones can be looked upon as the Founder of Commercial Beekeeping in Ontario. He was born in the village of Ringwood in 1836. Beekeeping traced back in his family to the early 17th century. He was the son of Norman Jones, an early York County bee hunter, whose father had also kept bees. His great grandfather, Abel Jones, was a native of Rhode Island. He later moved to Petersburg, NY, where he became an extensive beekeeper. His only brother became president of Massey Harris Implement Company in Brantford.

The town in which he lived changed its name from Clarkesville to Beetown in 1874, and later to Beeton. He had difficulties with waxmoth, so designed his own hive and patented it on July 15, 1870—"The Jones Perfection Hive." Jones was soon to enter the bee supply business. He started selling foundation in 1875. In 1876, he formed a bee supply business which expanded rapidly. Jones established the first bee journal in Canada on April 1, 1885, and called it, The Canadian Bee Journal. Jones was possibly the first person to design a lithographed container. After his exhibit in Toronto, Jones was hailed as the most successful beekeeper of the time. For several years, students came to work with him in large numbers. Several of them were to play prominent places in the industry. George Lang was to become Canada's top comb honey producer; F.W. Jones (no relation) was to become Canada's largest bee supply manufacturer, with headquarters in Bedford, Québec; and R.F. Holterman of Brantford was to become the first official lecturer in Apiculture at the Ontario Agricultural College.

William McEvoy played just as important a part as D.A. Jones in the development of beekeeping in Ontario, but in a completely different way. He was born in the county of Halton in 1844. In 1875, McEvoy recognized the disease of Foulbrood in his apiary and, with his meticulous method described in the "The Struggle for Disease Control", was able to clean it up in one year. In 1892 at a meeting in London, he drew attention to the losses of bees by the use of insecticides, which resulted in the first legislation ever passed to control their use. McEvoy became recognized as the leader in the industry at the time. His method of disease control

was able to avoid a serious setback in the industry until the mid-twenties, when suitable legislation along with burning of diseased hives was introduced.

Rev. W.F. Clarke is often referred to as the Father of The Ontario Agricultural College (now the University of Guelph) and the pioneer and patriarch of modern beekeeping in this country. Although he never operated more than 24 colonies of bees, he was one of the first to introduce the Italian bee, the honey extractor, and other appliances to the beekeepers of Canada.

R. McKnight was most likely the major spirit behind the organization of the Ontario Beekeepers' Association in 1880. He presided over the meetings in Toronto City Hall when the Association was organized, and became its first Secretary Treasurer.

R.F. Holterman wrote extensively on beekeeping in Canada, the U.S., Britain, and Norway. He wrote a pamphlet on beekeeping for the Federal Government for distribution in Europe.

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MARK WINSTON

EAS 2015 KEYNOTE SPEAKER

*Professor
Apiculture & Social Insects
Simon Fraser University, British Columbia*

Recognized as one of the world's leading expert on bees and pollination, Mark has had an illustrious career researching, teaching, writing and commenting on bees and agriculture, environmental issues and science policy. He directed Simon Fraser University's Centre for Dialogue for 12 years, where he achieved wide recognition as a distinguished Canadian educator.

EAS awarded the **Student Award** to Mark Winston in 1979 and the **James I. Hambleton Memorial Award**, recognizing research excellence in apiculture, in 1992.

Mark is also author of
Bee Time: Lessons from the Hive

"There are powerful lessons to be learned from bees about how we humans can better understand our place in nature, engage the people and events surrounding us with greater focus and clarity, interact more effectively in our relationships and communities, and open ourselves to a deeper understanding of who we are as individuals, communities and a species."

BOOK SIGNING

Mark Winston, Robert Page, and other speakers will be signing books in the vendor area. Check the book signing table for the schedule when each author will be available.



ROBERT PAGE

EAS 2015 KEYNOTE SPEAKER

Robert E. Page, Jr. is Provost of the Arizona State University (ASU) and Foundation Chair of Life Sciences. He was the Vice Provost and Dean of the College of Liberal Arts and Sciences and the Founding Director of the School of Life Sciences. He joined ASU in 2004 after spending fifteen years on the faculty of the University of California Davis, where he served as Chair of Entomology. His background is in behavior and population genetics, and the focus of his current research is on the evolution of complex social behavior. Using the honey bee as a model, Dr. Page has dissected their complex foraging division of labor at all levels of biological organization from gene networks to complex social interactions. Dr. Page has published more than 230 research papers and articles, 5 books, and is listed as a "highly-cited author" by the ISI Web of Knowledge, representing the top 1/2 of 1 percent of publishing scientists. He received the Alexander von Humboldt Senior Scientist Award (the Humboldt Prize) in 1995, the highest honor given by the German government to foreign scientists. In 2010, he was elected to the Leopoldina—the German National Academy of Science, the longest continuing academy in the world. Dr. Page is also an Elected Foreign Member of the Brazilian Academy of Science (1999), a Fellow of the American Association for the Advancement of Science (1991), Elected Member of the American Academy of Arts and Sciences (2006), and a Fellow of the Wissenschaftskolleg zu Berlin (2009-2010).

Robert Page may be recognized as one of the authors of *Queen Rearing and Bee Breeding*. More recently, he has authored *The Spirit of the Hive*.

EAS awarded the **James I. Hambleton Memorial Award**, recognizing research excellence in apiculture, to Robert Page in 1988.



ANATOMY WORKSHOP SIGNUP

(Monday AM)

Zachary Huang's Anatomy Workshop, on Monday at 8:30 AM in Graham Hall 3309, will be limited to 30 participants on a first come, first serve basis. As it is a bit of a walk to Graham Hall from Rozanski, please sign up at the registration desk in Rozanski Hall, if you are interested in that program. We do not want you to walk over there and be turned away due to lack of room.

See the friendly faces at the Registration Desk if you have any questions.

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EAS New Jersey 2016--Bee there!

Jeffrey Burd

*It is great to have EAS in Canada -
 Bonita & Dan Conlon*

Daniel & Bonita Conlon

Timothy McMahon

*Wonderful to see all of you here
 again*

David Meldrum

*Beekeepers from Maryland salute
 EAS and Guelph 2015*

Barry Thompson

*Thank you for a great conference.
 See you next year in NJ.*

Christopher Yates



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 thank them and support their businesses.*

MEET & GREET, FRIDAY BANQUET, AND AWARDS CEREMONY

6:00 PM (CREELMAN HALL)

Wrap up the week with a Meet & Greet pre-banquet mingle at 6:00 PM at Creelman Hall. Then at 6:30 PM, join us for the Friday Banquet and our annual Award Ceremony. Meet our newly certified Master Beekeepers and winners of the Honey Show. At the dinner, there will be great food, awards, a few surprises, and you will meet the New Jersey crew for 2016!

Tickets are required to attend this event.

HONEY BEER MAKING WORKSHOP

(Tuesday AM)

Russ Bateman and Cam Fryer, from Royal City Brewery, provide Guelph and the local area with essential craft beer. Located in the “Ward” region of Guelph, customers look forward to try new brews and fill growler jugs to take home their favorite, including the smoked honey beer made with local honey. EAS attendees will have the opportunity to tour this brewer and learn how they make beer on Tuesday, August 11, from 8:30 – 11:45 AM. Any thirsty person will not want to miss this workshop!

*Note this event is off the University of Guelph campus and will require a short 5-minute drive to Royal City Brewery, located at 199 Victoria Rd South in Guelph.

MEAD MAKING WORKSHOPS

(Tuesday PM)

Mazer (Mead Maker) Gavin North, from Honey Pie Hives, and Royal City Brewery will host afternoon mead-making workshops on Tuesday, August 11—the first at 1:00, with a repeat session at 2:45.

Gavin is a Master Beekeeper, and one of the few who create traditional mead, metheglins, and melomels for sale. This workshop will provide the fine skills and tips to beekeepers interested in making their own mead.

*Note this event is off the University of Guelph campus and will require a short 5-minute drive to Royal City Brewery, located at 199 Victoria Rd South in Guelph.

On Tuesday evening, tour the largest beekeeping store in Eastern Canada. The Guelph location for Propolis-Etc... will be hosting a social gathering for 2015 EAS participants. Attendees will be treated to a BBQ dinner, so come and have a free dinner on us!

Propolis-etc...
Beekeeping Supplies



SHORT COURSE WORKSHOPS



Queen Rearing Class

THIS SESSION IS FILLED. IF YOUR NAME TAG SAYS **QUEEN REARING**, YOU ARE REGISTERED FOR THIS TWO-DAY COURSE.

Registrants must commit to attend both Monday and Tuesday, August 10 and 11. Class size is limited to 25 attendees. This queen rearing workshop consists of classroom sessions and demonstrations with hands-on lessons in the bee yard. Participants are required to have prior beekeeping knowledge and experience in maintaining colonies.

Topics include queen biology, methods of rearing queens, preparing a cell builder colony, grafting techniques, and care of cells and queens. Each participant will have the option to buy a copy of the Ontario Queen Rearing Manual which corresponds with the workshop.

Participants will need protective gear (hat, veil) and closed-toe footwear. Long-sleeved, light-colored, and light material clothing is suggested. Full bee suits tend to be very warm. Refillable water bottles are recommended. A notebook and pencil can be handy. Cameras are welcomed. The class is limited to 25 people.



Introductory Beekeeping

This beekeeping workshop consists of classroom sessions and hands-on lessons in the bee yard. Participants of all experience levels are welcome. Topics include basic honey bee biology, beekeeping equipment, working in the bee colony, seasonal beekeeper responsibilities, harvesting and extracting honey, and preparing bee colonies for winter.

Each participant will have the option to buy a copy of the Ontario Beekeeping Manual which corresponds with the workshop.



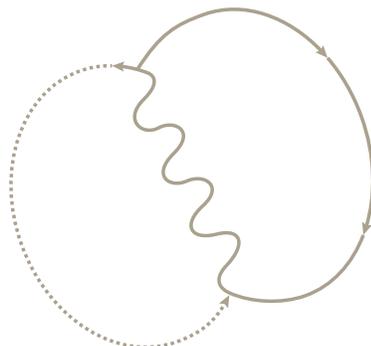
Beekeeping and IPM (Integrated Pest Management)

This intermediate beekeeping workshop consists of classroom sessions and hands-on lessons in the bee yard. Participants should have taken an introductory beekeeping workshop or course and/or have at least one season of beekeeping experience prior to attending. Topics include pest and disease biology and identification, monitoring for pests and diseases, record keeping, treatments and integrated pest management.

Each participant will have the option to buy a copy of the Integrated Pest Management for Beekeeping in Ontario Manual which corresponds with the workshop.



Follow the conference on
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Guelph & EAS 2015*

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and password.)*



TRAIN-THE-TRAINER WORKSHOPS

The Monday morning Train-the-Trainer Workshops are designed to help beekeepers develop stronger clubs, increase availability of bee educational programs, and improve the overall education level of their beekeeping community. You will learn how individual teachers have made a difference in their beekeeping region and community. We encourage any intermediate or advanced level beekeepers to attend these sessions, so you yourself can implement the suggestions. Or you can refer back to the ideas presented, when communicating with the beekeeping educators and leaders in their own home groups.

How to Organize a Bee School

EAS MB Carol Cottrill

Getting Past Lighting the Smoker

EAS MB Landi Simone

Stepping up to Intermediate Bee School

EAS MB Erin MacGregor-Forbes

How to Develop and Increase High Quality Programs in a Regional Bee Club

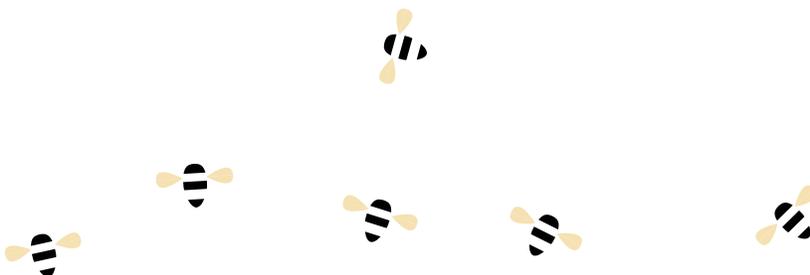
EAS MB Robert Sears

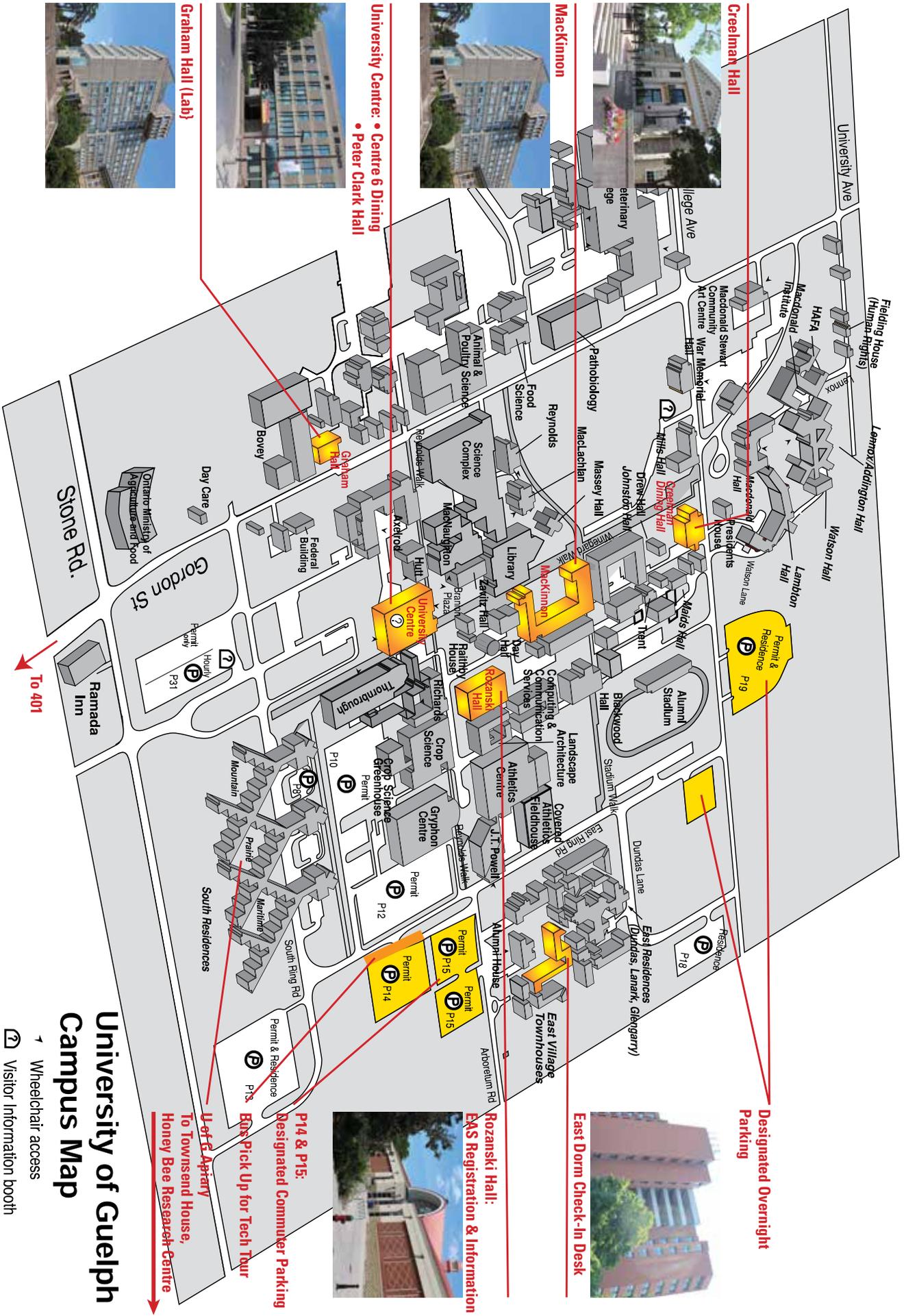
This session focuses on the logistics of creating a beginning (or other level) bee school in your area. We're not talking content; we are talking planning and execution. This is an important step to consider when increasing the amount of education in your area. With over ten years of experience teaching and organizing bee schools, Carol is an EAS Master Beekeeper whose knowledge will save you time, effort, and enable you to focus on what you really need to work on—your new beekeepers!

In her many years of teaching beginning bee school, Landi has realized that actual hands-on hive experience, right at the beginning of the new beekeeper's journey into beekeeping, makes a critical difference in their confidence and overall quality as a beekeeper. Landi will discuss the logistics of how she gets new beekeepers into the apiary to inspect their first hives (not just watching her do an inspection) and the impact that makes on the quality of the new beekeepers in her region. She'll also talk about the basics of a good core beekeeping class that helps new beekeepers learn to be good observers and diagnosticians of their bees.

Erin is a mover and a shaker in her beekeeping community. She realized early on that there is a gap in beekeeping education. Books and classes are focused on beginning beekeeping or advanced topics, and the realities and practicalities of building up are not well addressed. So Erin created an intermediate level bee school in Maine, designed for people with 2-7 hives and 2+ years of beekeeping, to fill the gap. This course has run for five years in Erin's area, and in 2015, she taught it in Massachusetts as well. In this session we will discuss the how and why of teaching Intermediate Bee School. Erin will provide the PowerPoint presentation of her 6-week Intermediate School for participants to use and expand in their own area.

Bob Sears and the Eastern Missouri Beekeepers Association have developed a vibrant, motivated, well-endowed (financially), and well-educated group through their education, outreach, and niche-filling activities. Bob will discuss the how and why of the programs they offer, and the benefits that are achieved by both the individuals and the club. From the club nuc pick-up to "Extractaganza," Bob (and the Eastern Missouri Beekeepers Association) share their successful solutions to problems that every club faces in terms of engagement, increasing education and reducing redundancy in beekeeping operations.





Creelman Hall



Mackinnon



University Centre: • Centre 6 Dining • Peter Clark Hall



Graham Hall (Lab)



Designated Overnight Parking



East Dorm Check-in Desk

Rozanski Hall: EAS Registration & Information



P14 & P15: Designated Commuter Parking

Bus Pick Up for Tech Tour

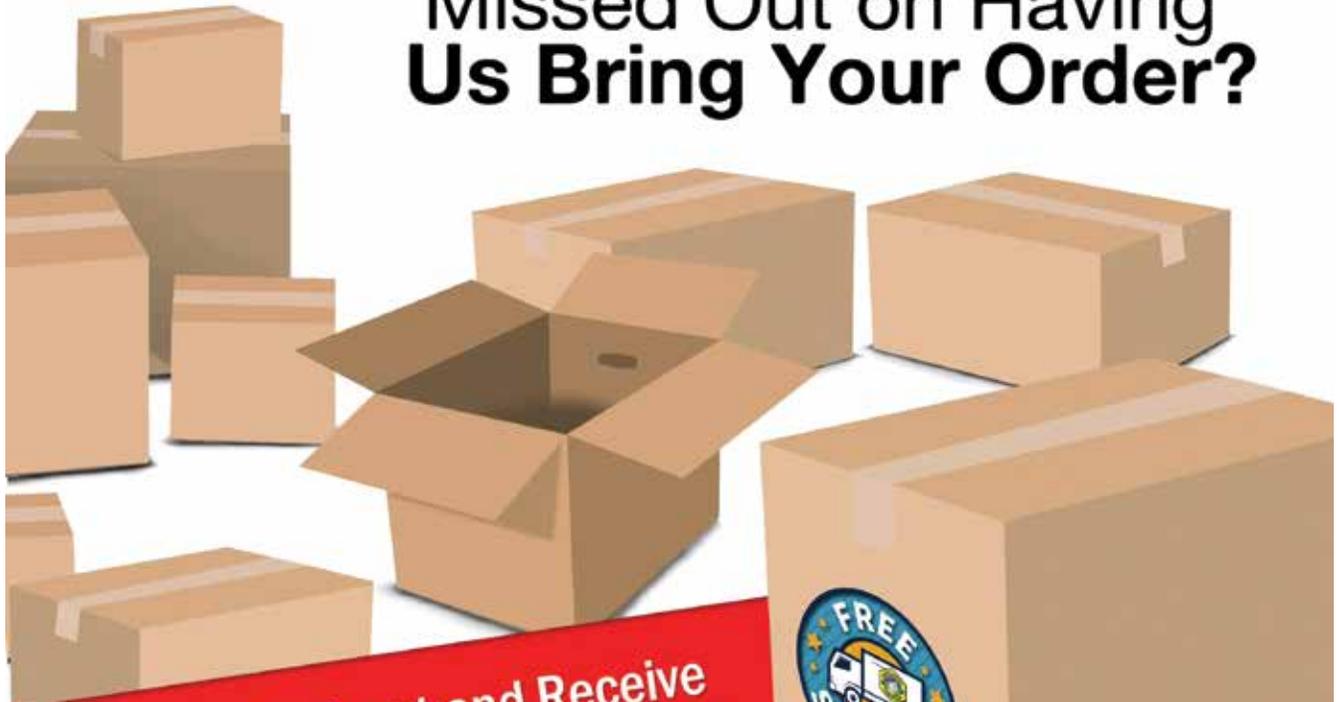
Left Apartment To Townsend House, Honey Bee Research Centre

University of Guelph Campus Map

-  Wheelchair access
-  Visitor Information booth



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OPEN INVITATION TO TOUR TOWNSEND HOUSE, HONEY BEE RESEARCH CENTRE

We will be hosting an open house tour Monday, August 10, between 7:00 and 9:00 PM, with a second opportunity to visit on Thursday, August 13, from 9:00 to 11:00 AM.—for those who won't be attending the technical tour. Come anytime between these hours and wander around the grounds and bee yards. Stop in at all the stations which we'll have set up, showcasing our research activities, beekeeping gadgets, indoor overwintering facilities, extracting room, double nuc hive management system, Cloake board queen rearing, and much more.

It is a pleasant, ten-minute walk down a brand new sidewalk from parking lot P13. We have some parking available onsite, for those who can't make the walk. We are at 308 Stone Road East. Parking lot P13 and our location can be found on the map in this Program Guide. Hope to meet you there!

Paul Kelly and all the HBRC staff and students





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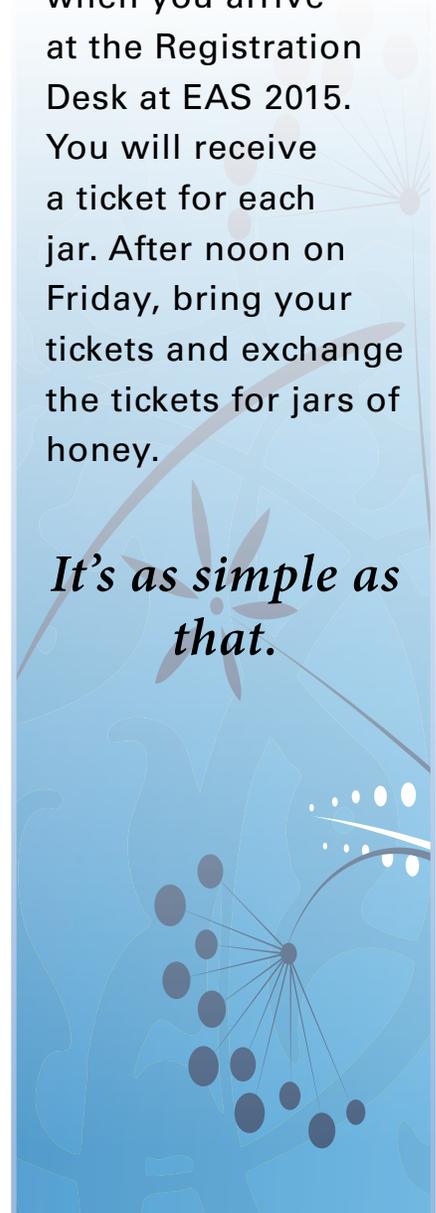
©2002, 2009, 2012 Wellmark International. 10242012

Honey Exchange

Want to try out some different honeys? Exchange up to three jars of honey with another beekeeper!

Drop off up to three jars of honey, clearly labeled, when you arrive at the Registration Desk at EAS 2015. You will receive a ticket for each jar. After noon on Friday, bring your tickets and exchange the tickets for jars of honey.

It's as simple as that.





Beekeeping Academy for Kids

A one day camp for children interested in bees, sustainable agriculture, and their environment.

What: A one day camp offered to students in the greater community of Toronto. Students will be introduced to the world of bees with hands-on activities, crafts, and games. Highlights of the day will be inspecting a honey bee hive, hunting native bees, and collecting data as a citizen scientist.

When: Wednesday, August 12, from 9:00am to 3:00pm.

Where: University of Guelph, Townsend House, 308 Stone Road East, Guelph, Ontario. The camp will take place at the University Honey Bee Research Centre and Arboretum.

Who: Sarah Red-Laird, aka Bee Girl, and University Honey Bee Research Centre staff will work with a small group of grade 4–6 students.

How Much: Students can register for \$60 (CAD) through <https://easbeekeepingacademy.eventbrite.com>. There are also limited number of scholarships available, and we are offering a 20% discount for siblings registering together. Email sarah@beegirl.org for more information.

More Details: The Beekeeping Academy is a one day camp for kids going into grades four through six. Students will spend their day in a fun and educational immersion into the world of the bee. During the morning hours, we will take an in-depth look into bee anatomy, biology, and sociology, and their vital role in our food system. The afternoon will be spent up close and personal with honey bee hives and native bee observations. Throughout the day students will learn about challenges bees face and how they can be part of the solution in the bee's survival.

Kids are asked to bring a brown bag lunch, a snack, and a water bottle.

We will provide all of the beekeeping gear for the day.

Space is limited, so please register early. We will then be in touch shortly with confirmation of your registration.



Parking

Parking for attendees who stay overnight in the dorms is included in the accommodation rates. Residents will receive a GREEN parking pass and may park in P19 (North residences), P17 (East residences and Townhouses) or P13 (South residences).

If you are staying in one of the hotels, it is suggested that you walk from the hotel to save on parking. But if you need to drive to campus, the parking cost is \$9.00 per day (including tax) or \$36.00 per week (including tax). Parking permits are required Monday through Friday, from 8:00am to 5:00pm. An ORANGE conference parking pass entitles visitors to park in lots P13, P14, P15, & P19. Parking permits can be purchased at the registration desk.

Please note that the parking passes must be displayed on the vehicle's dashboard.



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July 27, 2015

MEDIA ADVISORY

International scientists to speak in Guelph on pollinator health

“Emerging Issues in Pollinator Health”

If you're looking to learn more about the science behind the debate on bee health, this panel of scientists working on pollinator health issues will be of interest to you.

The program features a special expert panel discussion addressing emerging issues related to pollinator health and agriculture. This will include the status and importance of pollinators in Ontario and worldwide; the results and strategies of monitoring programs in Italy; and the implications of some of the recent agricultural trends, including neonicotinoid seed treatments. This panel will be of particular interest, given the recent regulatory action in Ontario on treated seeds. Panelists will speak to the multiple stressors on pollinators as well as policy issues that must be addressed for the future health of agriculture and the environment.

This event has been organized by the University of Guelph, the Ontario Beekeepers' Association and the Eastern Apicultural Society as part of the annual beekeeping conference, this year being held at the University of Guelph from August 10 - 14. This event is of particular interest to beekeepers and anyone interested in the factors related to pollinator health that must be addressed to reduce mortality for both honey bees and other insect pollinators. The event is open to the public at no charge. There will be an opportunity for media representatives to meet with panelists after the discussion.

DATE: Wednesday, August 12, 2015

TIME: 7:30-9:30 pm

LOCATION: The University of Guelph, Rozanski 104

The expert panel includes: (see attached backgrounder for bios)

- Ernesto Guzman, Professor and Director of the Honey Bee Research Centre, University of Guelph
- Christian Krupke, Professor of Entomology, Purdue University
- Franco Mutinelli, Professor at Zooprofilattico Sperimentale delle Venezie, Italy
- Nigel Raine, Rebanks Family Chair in Pollinator Conservation, University of Guelph
- Moderator: André Flys, EAS President, OBA 2nd Vice President, and owner Pioneer Brand Honey, Nobleton.

For more information: André Flys, (416) 807-2253 or andre@pioneerbrand.ca



BACKGROUND:

BIOS of Panel Participants:

- **Ernesto Guzman**, Professor and Director of the Honey Bee Research Centre, University of Guelph. Research in Dr. Guzman's lab is focused on three main areas: genetics, behaviour and parasitic mites of honey bees. These studies have contributed to the understanding of foraging behaviour, defensive behaviour and the mechanisms that provide honey bees resistance against parasitic mites, a serious problem facing beekeepers worldwide. Currently, postdoctoral fellows, students and technicians in Dr. Guzman's lab are investigating the effect of parasites and pesticides on the behaviour and immune responses of honey bees.
- **Christian Krupke** is an Associate Professor of Entomology at Purdue University, with a primary responsibility in field crops extension. Dr. Krupke received his B.S. from the University of Guelph, his M.S from Simon Fraser University and his Ph.D. from Washington State University in 2004. His research program at Purdue focuses on the sustainable management of key pests of field crops, primarily corn and soybeans. His main areas of focus include quantifying the impacts of various Bt corn/refuge configurations on the biology of target pests, specifically corn rootworms. He also conducts research and extension programs on several other key pests of field crops, including the western bean cutworm and the soybean aphid and on the non-target effects of seed-applied herbicides upon beneficial insects (pollinators and predators).
- **Franco Mutinelli**, Professor at Zooprofilattico Sperimentale delle Venezie, Italy, has a degree in veterinary medicine from Bologna University, Italy, and holds the Diplomate of the European College of Veterinary Pathologists, and the Executive Master for management of health authorities from Bocconi University, Milan. Since 1989, he has been Veterinary Manager, IZS delle Venezie, Legnaro (Padova), Italy. He is Head of Experimental Veterinary Sciences Division, Head of Diagnostic Services Histopathology and Parasitology Department, and since 2003 Head of the National Reference Laboratory for beekeeping. His main field of activity is the diagnosis and control of honey bee diseases, environment monitoring, legislation, and education and training in apiculture, histopathology of animal diseases, neoplastic pathology and TSEs, rabies diagnosis, surveillance and control, laboratory animal husbandry and welfare, and legislation. He participates in projects funded by the Italian Ministry of Health, Ministry of Agriculture, Ministry of Environment, and international projects related to honey bee and other animal diseases.
- **Nigel Raine**, Rebanks Family Chair in Pollinator Conservation, University of Guelph. Dr. Raine, a leader in pollination conservation and ecology from Britain, joined the University of Guelph, School of Environmental Sciences (SES) in May 2014 as the Rebanks Family Chair in Pollinator Conservation. He was previously a faculty member in the School of Biological Sciences at Royal Holloway University of London. Raine studies the impacts of pesticides on bees, insect behaviour and pollination ecology. His role at Guelph is to raise awareness of the importance and plight of pollinators, inform public policy, and help train highly qualified conservationists and agriculturalists, all critical to the health of pollinators and food systems. He is a Fellow of both the Royal Entomological Society and the Linnean Society of London, has held academic positions at Sheffield University, the Zoological Society of London and Queen Mary University of London and has studied zoology and biological sciences at Magdalen College, University of Oxford.

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EAS 2015 CONFERENCE SCHEDULES

REGISTRATION & INFORMATION	
	Registration and Information Desk at Rozanski Hall
Sunday	3:00 p.m.– 7:00 p.m.
Monday	7:30 a.m.– 4:00 p.m.
Tuesday	7:30 a.m.– 4:00 p.m.
Wednesday	7:30 a.m.– 5:00 p.m.
Thursday	8:00 a.m.– 9:30 a.m.
Friday	8:00 a.m.– Noon
Please return your meal card and dorm keys before you leave campus; you will be billed \$75 to replace each item that is not returned.	

MASTER BEEKEEPERS			
Meet and Greet Candidates	Monday	1:30 p.m.– 2:30 p.m.	MacKinnon 107
Exam Study Groups	Monday	2:30 p.m.– 4:00 p.m.	MacKinnon 107
MB Exam Volunteers' Dinner	Monday	5:00 p.m.– 7:00 p.m.	TBA
Exam Review	Monday	7:00 p.m.– 9:00 p.m.	MacKinnon 107
Written Exams	Tuesday	8:30 a.m.– 12:30 p.m.	MacKinnon 236
Oral Exams	Tuesday	12:30 p.m.– 4:00 p.m.	MacKinnon 236
	Tuesday	10:00 a.m.– 4:00 p.m.	MacKinnon 237
	Tuesday	10:00 a.m.– 4:00 p.m.	MacKinnon 238
Lab Exams	Wednesday	8:30 p.m.– 12:30 p.m.	MacKinnon 238
Field Exams	Wednesday	10:00 a.m.– 4:00 p.m.	Beeyard
Annual Meeting	Friday	7:30 a.m.– 8:30 a.m.	Rozanski 102
Exam Review (Candidates receive scores and get questions answered.)	Friday	3:00 p.m.– 5:00 p.m.	MacKinnon 107
Presentation of New Master Beekeepers at Banquet	Friday	6:00 p.m.– 9:30 p.m.	Creelman Hall

MEETINGS			
EAS Board of Directors Meeting (Buffet will be setup in room)	Wednesday	11:45 a.m.– 1:30 p.m.	University Centre Room 442 (take north elevators)
EAS 2016 New Jersey Preview	Friday	10:30 a.m.– 10:45 a.m.	Rozanski 101
EAS Annual Business Meeting (Everyone is encouraged to attend.)	Friday	10:45 a.m.– Noon	Rozanski 101
Life Members Banquet (Buffet will be setup in room)	Friday	Noon– 1:30 p.m.	University Centre Room 442 (take north elevators)

ANNUAL HONEY SHOW			
Drop Off Show Entries	Rozanski Hall	Tuesday, Wednesday	1:30 p.m.– 4:30 p.m., 10:30 a.m.– Noon
Show Open to Public	TBA	Friday	9:00 a.m.– 3:00 p.m.
Post-Show Pick Up of Entries	TBA	Friday	After 3:00 p.m.
Top Awards Presentation (at Banquet)	Creelman Hall	Friday	6:00 p.m.– 9:30 p.m.

VENDOR SCHEDULE			
Vendor Setup	Monday	8:00 a.m.– 1:30 p.m.	
Vendor Show Open	Tuesday	10:00 a.m.– 4:15 p.m.	Peter Clark Hall
Vendor Show Open	Wednesday	9:00 a.m.– 5:00 p.m.	
Vendor Show Closed	Thursday	Closed	
Vendor Show Open	Friday	9:00 a.m.– 3:00 p.m.	Peter Clark Hall
Vendor Tear Down	Friday	3:00 p.m.– 5:00 p.m.	Hall

2015 EAS SHORT COURSE, Monday, August 10, 2015

6:45 - 7:45 AM	Yoga for everyone @ W.F. Mitchell Building (Athletic Centre) Range Room					
7:00 - 8:30 AM	Breakfast @ University Centre Food Court					
Starts 7:30 AM	Registration @ Rozanski Hall					
8:00-8:30 AM	Welcome to Eastern Apicultural Society and University of Guelph @ Rozanski 103					
	Queen Rearing Workshop (Hosted by Tech Transfer Specialists)	Beginners Intro to Beekeeping (Hosted by Tech Transfer Specialists)	Integrated Pest Management Workshop (Hosted by Tech Transfer Specialists)	Advanced Beekeeping	Advanced Beekeeping (Lab Session)	Train-the-Trainer
	Rozanski 107	Rozanski 105	Rozanski 103	Rozanski 102	Graham Hall 3309	MacKinnon 107
8:30 - 9:15 AM	Welcome and introductions, queen and drone biology, queen rearing equipment, queen and nuc regulations	Welcome and introductions, basic bee biology	Welcome and introductions, pest and disease identification		*Honey bee anatomy, lab session Zachary Huang * Signup at the Registration Desk before heading to Graham Hall.	How to organize a bee school Carol Cottrill
9:15 - 10:00 AM	Protocol for rearing queens, record keeping, timing	Beekeeping equipment, getting started	Monitoring and record keeping			
10:00-10:15 AM	Coffee Break @ Rozanski Hall					
10:15 - 11:00 AM	Yard Session Station #1 Prepare cell builder Station #2 Prepare mating nucs Station #3	Yard Session Station #1 Opening a colony, working a colony, development stages Station #2	Yard Session Station #1 Monitoring (ether roll, alcohol wash, sticky board, sugar dust) Station #2	Managing honey bee defensive behavior Greg Hunt		Stepping up to intermediate bee school Erin MacGregor-Forbes
11:00 - 11:45 AM	Collecting, tagging and clipping queens Station #4 Queen cell care, mated queen care, transportation and introduction	Installing a nuc, making a split, moving a colony Station #3 Queen cell and mated queen care and introduction	Cultural management techniques	Division of labour in honey bee colonies Zachary Huang		How to develop and increase high quality programs in a regional bee club Robert Sears
11:45 - 1:00 PM	Lunch @ University Centre Food Court					
	Advanced Beekeeping	Beginners Intro to Beekeeping	Advanced Beekeeping	Advanced Beekeeping		Master Beekeepers
	Rozanski 107	Rozanski 105	Rozanski 106	Rozanski 102		MacKinnon 107
1:00 - 1:45 PM	Apiculture in Ontario Paul Kozak	Preparing to harvest hive products	Spring management Tammy Horn	Honey bee nutrition and pollination services Les Eccles		Master Beekeepers meet and greet
1:45 - 2:30 PM	With a commercial orchard design like this, who needs to rent bees? Stefan Sobkowiak	Seasonal responsibilities of the beekeeper	Finding and replacing queen bees Tammy Horn	Honey bee pheromones Zachary Huang		
2:30 - 2:45 PM	Coffee Break @ Rozanski Hall					
2:45 - 3:30 PM	Niagara College Commercial Beekeeping Program Al Unwin	Yard Session Station #1 Feeding and Winter Wraps Station #2 Extracting	Doug's double nuc method of overwintering Doug McRory	The swarming cycle of <i>Apis mellifera</i> Gard Otis		Master Beekeepers study groups
3:30 - 4:15 PM	TBA		Indoor wintering of honey bee colonies Rob Currie	Interpreting colony conditions to diagnose swarming supersedure, and emergency queen rearing Gard Otis		
4:30 - 5:30 PM	Beekeeping Olympics @ Bee Yard					
5:30 - 9:00 PM	Fionn MacCool's Restaurant with Local Honey and Pollinated Crop Menu and Royal City Brews 494 Edinburgh Rd S, Guelph					
						Master Beekeepers Exam Review (7:00 - 9:00 PM)

2015 EAS SHORT COURSE Tuesday, August 11, 2015

6:45 - 7:45 AM	Yoga for everyone @ W.F. Mitchell Building (Athletic Centre) Range Room							
7:00 - 8:30 AM	Breakfast @ University Centre Food Court							
Starts 7:30 AM	Registration @ Rozanski Hall							
	Queen Rearing Workshop <i>(Hosted by Tech Transfer Specialists)</i>	Advanced Beekeeping	Integrated Pest Management Workshop <i>(Hosted by Tech Transfer Specialists)</i>	Advanced Beekeeping	Advanced Beekeeping (Lab Sessions)	Beer Making Workshop	Master Beekeepers	Master Beekeepers
	<i>Rozanski 107</i>	<i>Rozanski 105</i>	<i>Rozanski 103</i>	<i>Rozanski 102</i>	<i>Graham Hall 3309</i>	<i>199 Victoria Rd S</i>	<i>MacKinnon 236</i>	<i>MacKinnon 237 & 238</i>
8:30 - 9:15 AM	Stock selection and breeding	American foulbrood diagnosis and management <i>Steve Pernal</i>	Treatments	Honey bee viruses and their association with varroa <i>Mollah Hamiduzzaman</i>		<i>Royal City Brewing Co.</i>	Master Beekeepers Written Exam	
9:15 - 10:00 AM	Yard Session Station #1 Frame selection and grafting Station #2 Preparation of cell bars, grafting frames, queen cages and queen candy	Nosema disease, biology and control <i>Daniel Borges</i>	IPM components and values	The varroa project: A citizen science program for hobby beekeepers <i>Rebecca Masterman</i>				Master Beekeepers Oral Exams
10:00-10:15 AM	Break with vendors @ Peter Clark Hall							
10:15 - 11:00 AM	Other queen rearing methods	Honey for competition <i>Ken Coyle</i>	Yard Session Station #1 Oxalic Acid, Thymovar	Varroa mite control <i>Rob Currie</i>	Nosema identification lab session <i>Daniel Borges</i>	<i>Royal City Brewing Co. (Continuation of earlier session.)</i>	Master Beekeepers Written Exam	Master Beekeepers Oral Exams
11:00 - 11:45 AM	<i>(CONTINUED)</i> Yard Session Station #1 Frame selection and grafting Station #2 Preparation of cell bars, grafting frames, queen cages and queen candy		Station #2 Formic Acid, MAQS™ Station #3 Antibiotics, Fumigilin-B Station #4 Apistan®, Checkmite™, Apivar®	Oxalic acid: A miticide for varroa control <i>Medhat Nasr</i>	Nosema identification lab session <i>Daniel Borges</i>			
11:45 - 1:00	Lunch @ University Centre Food Court							
	Queen Rearing Workshop	Advanced Beekeeping	Advanced Beekeeping	Advanced Beekeeping	Advanced Beekeeping	Mead Making Workshop	Master Beekeepers	Master Beekeepers
	<i>Rozanski 107</i>	<i>Rozanski 105</i>	<i>Rozanski 103</i>	<i>Rozanski 102</i>	<i>Rozanski 108</i>	<i>199 Victoria Rd S</i>		
1:00 - 1:45 PM	Extra grafting practice time	Pesticides and basic toxicology <i>Cynthia Scott-Dupree</i>	When beekeeping goes bad <i>Phil Craft</i>	A reduced risk integrated pest management program for honey bees: Basics and in practice <i>Medhat Nasr</i>	Honey bee genetics <i>Greg Hunt</i>	Honey pie hives and herbal mead <i>Gavin North</i>	Master Beekeepers Oral Exams	Master Beekeepers Oral Exams
1:45 - 2:30 PM		The immune system of honey bees <i>Paul Goodwin</i>	From the flower to the cell: Making nectar into honey <i>Dennis vanEngelsdorp</i>	Improving bee management: Pest surveillance and biosecurity <i>Medhat Nasr</i>	Sex determination in honey bees <i>Zachary Huang</i>			
2:30 - 2:45	Break with vendors @ Peter Clark Hall							
2:45 - 3:30 PM		Honey bee pathology: Stressor effects and honey bee defenses <i>Geoff Williams</i>	Helping our bees prepare for winter <i>Phil Craft</i>	Residues in hive and honey products <i>Steve Pernal</i>	The evolution of honey bees <i>Dennis vanEngelsdorp</i>	Honey pie hives and herbal mead <i>Gavin North, (Repeat of earlier session.)</i>	Master Beekeepers Oral Exams	Master Beekeepers Oral Exams
3:30 - 4:15 PM		Small hive beetle in Ontario—what nobody told us <i>Les Eccles</i>	"Ask Dr. Phil" Q&A session <i>Phil Craft</i>	The antimicrobial properties of honey <i>Karol Mathews</i>	Elemental honey bee breeding <i>Ernesto Guzman</i>			
5:30 - 9:00	Dinner @ local restaurants (check sponsoring establishments)							
5:30 - 9:00	Propolis, Etc... BBQ and Social (free but requires preregistration) 367 Michener Road, Guelph, ON							

EAS 2015 GENERAL CONFERENCE -Wednesday, August 12, 2015

	6:45 - 7:45 AM	Yoga for everyone @ W.F. Mitchell Building (Athletic Centre) Range Room					
	7:00 - 8:30 AM	Breakfast @ University Centre Food Court					
	Starts 7:30 AM	Registration @ Rozanski Hall					
Rozanski 104	8:00 - 8:30 AM	Chair and President's Welcome				Master Beekeepers Lab Exam MacKinnon 238 Field Exam in Apiary	
Rozanski 104	8:30 - 9:30 AM	Keynote speaker: Mark L. Winston "Value or values: Audacious ideas for the future of beekeeping"					
Rozanski 104	9:30 - 10:30 AM	Keynote speaker: Robert E. Page Jr. "The spirit of the hive: Mechanisms of social evolution"					
	10:30 - 11:00 AM	Break with vendors @ Peter Clark Hall					
Rozanski 104	11:00 - 11:45 AM	Presentation of Hambleton Award to Ernesto Guzman and talk by awardee "Microbes and natural compounds for the control of honey bee parasites"					
	11:45 - 1:00 PM	Lunch @ University Centre Food Court / EAS Board Meeting @ University Centre Room 442					
		Pesticide and Bee Health Theme	Biology, Pollination, & Agriculture Theme	Best Management Practices Theme	Hive Products and Beekeeping Development Theme	Queen Rearing Workshop	Master Beekeepers
		<i>Rozanski 101</i>	<i>Rozanski 103</i>	<i>Rozanski 102</i>	<i>Rozanski 105</i>	<i>Bee Yard</i>	<i>Bee Yard</i>
	1:00 - 1:30 PM	Field studies examining exposure and effects of neonic on bee health <i>Cynthia Scott-Dupree</i>	The legacy of early nutritional stress for honey bee foragers <i>Heather Mattila</i>	Creating forest-based beekeeping corridors <i>Tammy Horn</i>	Antibacterial and antioxidant activity of Canadian honeys: Main components and their mode of action <i>Katrina Brudzynski</i>	Cell starter to cell finisher	Field Exam
	1:30 - 2:00 PM	Health of honey bee reproductives: Effects of parasites and pesticides on drones and queens <i>Geoff Williams</i>	The influence of genetic diversity on foraging productivity <i>Heather Mattila</i>	A year in the life of Headwaters Farm <i>David Mendes</i>	Honey treatment for wounds: Why it is the best <i>Karol Mathews</i>		
	2:00 - 2:30 PM	Honey bee stressor interactions: Nosema & pesticides, from the laboratory to the field <i>Geoff Williams</i>	Essence of royalty: Honey bee queen pheromone <i>Mark Winston</i>	Bee Squad: Helping people help bees <i>Rebecca Masterman</i>	Biosecurity in the bee yard <i>Paul Kozak</i>		
	2:30 - 3:00 PM	Break with vendors @ Peter Clark Hall					
	3:00 - 3:30 PM	Effects of neonicotinoids and varroa on honey bee health <i>Nuria Morfin</i>	Native pollinators in Ontario agriculture <i>Alana Pindar</i>	Beekeeping in cities Thomas Nolan & <i>Fran Freeman</i>	COLOSS Honey Bee Research Association <i>Geoff Williams</i>		
	3:30 - 4:00 PM	Clothianidin in corn and impact on bee survival, foraging and honey production <i>David MacKay</i>	The Canadian Pollination Initiative has helped apiculture nationally and internationally <i>Peter Kevan</i>	Data Informed Beekeeping Best Management Practices <i>Dennis vanEngelsdorp</i>	Beekeeping development projects: Why some succeed and far too many fail <i>Gard Otis</i>		
	4:00 - 4:30 PM	Pesticides, parasites, pollinators: Impacts of environmental stressors on bees <i>Nigel Raine</i>	Using managed pollinators for biological crop protection and enhanced production <i>Peter Kevan</i>	The challenges of reconciling environmental stewardship and agriculture <i>Rene Van Acker</i>	Amazing beekeeping discoveries at Tel Rehov, Israel: Innovative use of morphometric analyses <i>Gard Otis</i>		
	4:30 - 5:00 PM	A season long study of pesticide exposure in Ontario and Quebec <i>Nadia Tsvetkov</i>	Bee Health Monitoring Program in Italy: Apenet (2008-2009) and BeeNet (2011-2014) and the Bee Emergency Service Team (BEST) <i>Franco Mutinelli</i>	Organic beekeeping <i>Julie White</i>	Beekeeping in Bangladesh <i>Phil Craft</i>		
	5:00 - 7:30 PM	Dinner at local restaurants (check sponsoring establishments)					
Rozanski 104	7:30 - 9:00 PM	Panel Discussion - Emerging Issues in Pollinator Health Franco Mutinelli, Christian Krupke, Nigel Raine and Ernesto Guzman					

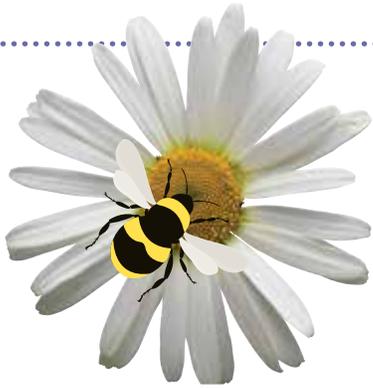
EAS 2015 GENERAL CONFERENCE -Thursday, August 13, 2015	
6:45 - 7:45 AM	Yoga for everyone @ W.F. Mitchell Building (Athletic Centre) Range Room
7:00 - 8:30 AM	Breakfast @ University Centre Food Court
Starts 8:00 AM	Registration @ Rozanski Hall
BUSES LEAVE AT 9:00 AM	Tech Tour (meet buses at P14 Lot on East Ring Rd) Niagara College, Parker Bee Apiaries, Butterfly Conservatory, and Niagara Falls Lunch on Tour
5:30 - 9:30 PM	Dinner and Social at John and Alison Van Altens Farm with Live Music and Queen & Live Auction Dutchman's Gold and Tuckamore Bee Company Food Catered by the Lancaster Smokehouse

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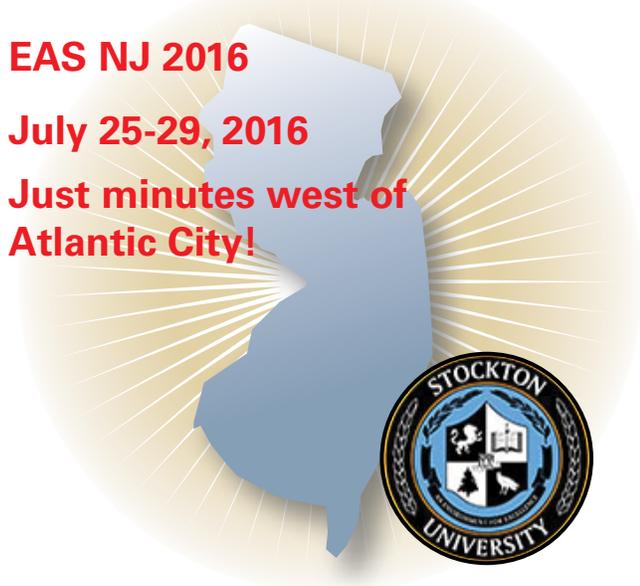
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EAS 2015 GENERAL CONFERENCE - Friday Aug. 14, 2015

6:45 - 7:45 AM		Yoga for everyone @ W.F. Mitchell Building (Athletic Centre) Range Room			
7:00 - 8:30 AM		Breakfast @ University Centre Food Court			
Starts 8:00 AM		Registration @ Rozanski Hall			
Rozanski 101	8:30 - 9:15 AM	Presentation of Student Award and Conference to Andony Melathopoulos and talk by awardee "Where is the value in valuing bee pollination services to agriculture?"			
Rozanski 101	9:15 - 10:00 AM	Presentation of Roger Morse Award and Conference to Dr. Medhat Nasr and talk by awardee "Advances in HopGuard® application for varroa mite control"			
10:00 - 10:30 AM		Break with vendors @ Peter Clark Hall			
		Viruses, Immunity, and Genetics Theme	Nosema & Bee Breeding Theme	EAS Society Business	
		Rozanski 102	Rozanski 103	Rozanski 101	
10:30 - 10:45 AM	Impact and control of honey bee viruses current and future approaches <i>Rob Currie</i>	The Honey Bee Health Project: What have we learned so far? <i>Steve Pernal</i>	EAS 2016 New Jersey Preview Jeff Burd Annual EAS Business Meeting (Starts at 10:45)		
10:45 - 11:00 AM					
11:00 - 11:30 AM	Responses of bees against mites and viruses <i>Mollah Hamiduzzaman</i>	Fruits, vegetables, and probiotics: Natural treatments for nosema disease <i>Daniel Borges</i>			
11:30 - Noon	The use of genomic tools for honey bee health <i>Brock Harpur</i>	<i>Nosema ceranae</i> : Immigrant but not a newcomer! <i>Pegah Valizadeh</i>			
Noon - 1:00 PM		Lunch @ University Centre Food Court / Life Membership Meeting @ University Centre Room 442			
		Breakout Session #1	Breakout Session #2	Queen Breeding	
		Rozanski 102	Rozanski 103	Bee Yard	
1:00 - 1:30 PM	Virulence factors from <i>Paenibacillus larvae</i> , the cause of AFB <i>Rod Merril</i>	Breeding for disease resistance: Using proteomic markers <i>Steve Pernal</i>	Yard Session Check Queen Graft Acceptance		
1:30 - 2:00 PM	The immune system of honey bees <i>Paul Goodwin</i>	Marker assisted selection for breeding resistance to varroa <i>Rob Currie</i>			
2:00 - 2:30 PM	Natural immunity and resistance of honey bees to nosema disease <i>Pegah Valizadeh</i>	Ontario Resistant Honey Bee Selections (ORHBS) program <i>Les Eccles</i>			
2:30 - 3:00 PM		Break @ Peter Clark Hall			
		Breakout Session #1	Breakout Session #2	Breakout Session #3	Master Beekeepers
		Rozanski 102	Rozanski 103	Graham Hall 3309	MacKinnon 107
3:00 - 3:30 PM	Effect of miticides on bee health and behavior <i>Hanan Gashout</i>	Breeding for mite biters, raising and sharing queens <i>Greg Hunt</i>	Instrumental insemination of queens: Demonstration at Townsend House <i>Krispn Given</i>		
3:30 - 4:00 PM	Drivers of colony health: Disease, chemicals, and nutrition...oh, my! <i>Dennis vanEngelsdorp</i>	Breeding for lower defensive behavior <i>Greg Hunt</i>			
4:00 - 4:30 PM	Exploring the relationship between Varroa mites, viruses, and treatment timing <i>Graham Parsons</i>	Queen health: Evaluation of imported and local honey bee stock <i>Patricia Wolf Veiga</i>	Instrumental insemination of queens: Demonstration at Townsend House <i>Krispn Given</i> (Repeat of earlier session.)		
4:30 - 5:00 PM	National honey bee health survey in Canada: First year results <i>Carlos Castillo</i>	Buckfast bee program in Ontario <i>Paul Kelly</i>			
6:00 - 9:30 PM		Banquet and Award Ceremony @ Creelman Hall			

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