

**Field Entomology for Arborists  
- Unleash the Bug Expert Within -**

As an Arborist, you encounter countless species of insects in your daily work, but how often do you come across the unknown? Was it a predator, a beneficial species, or perhaps a new invasive pest? Take part in a 2-day workshop filled with interactive activities designed to sharpen your scouting, identification and skills for pests and beneficial insects of trees and shrubs. ISA CEU's are available!

Due to overwhelming demand, we're bringing back this engaging two-day workshop! Immerse yourself in a blend of fun, interactive group learning, all set against the backdrop of the great outdoors. During these two days, you'll hone your scouting and identification skills specifically for pests and beneficial insects inhabiting the Ontario landscape. Our focus will be on the fascinating insects that thrive in and around trees and shrubs.

This distinctive, information-packed workshop aims to boost your confidence and enhance your ability in detecting and identifying the diverse array of insects discovered in Southern Ontario. Throughout this workshop, you'll acquire a valuable skillset and discover resources that empower you to respond confidently to client inquiries regarding insects, all while cultivating trust and fostering loyalty.

**You will learn to:**

1. Identify: Confidently recognize the common orders and families of insects in the landscape
2. Strategize: Discover multiple resources and strategies to help you identify insects quickly
3. Capture: Learn how to properly capture specimens and images for diagnostic purposes.

**Details:**

- Dates: July 23–25, 2024
- Location: Biodiverse, natural learning environment of the **Queens University Biological Research Station** Elgin, Ontario (north of Kingston)
- Instructors: Dave Cheung, Marvin Gunderman & Jen Llewellyn
- 2 full day workshop spread across 3 days (July 23rd-25th)
- ISA CEU Credits available

Registration includes two-nights accommodation, all meals and course manual. Motivated by their contagious passion for learning, Dave Cheung, Marvin Gunderman and Jen Llewellyn will lead the workshop in an inspiring, engaging, team building style filled with group learning and FUN.

The workshop comprises a series of interactive lectures that cover the diversity of insects with an emphasis on the major orders (Coleoptera, Diptera, Hymenoptera,

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Lepidoptera and Hemiptera). You will learn about the incredible behaviours of parasitic wasps, discover the amazing diversity of flies, and be fascinated by the lifecycle of host switching parthenogenic gall-making aphids, and much more.

Put your freshly acquired knowledge to the test during our interactive team-based games. Whether you're racing against the clock in "Speed-ID" or strategizing in "Insect Guess Who", rest assured that both fun and learning await. As the workshop concludes, brace yourself for the ultimate team-based challenge—a culmination of your identification, scouting, and collecting skills!

Join us for an engaging, fun-filled two-day workshop, and depart with honed entomological skills and new friends that will add to your expertise as a well-rounded arborist.

### **Schedule:**

Tuesday, July 23 evening: 5:00 PM – 10:30 PM (4 Hours)

Wednesday, July 24 8:00 AM – 10:30 PM (10 Hours)

Thursday, July 25 8:00 AM – 6:00 PM (7 Hours)

### **Your Instructors:**

**Marvin Gunderman** retired from McMaster University in Hamilton after a 28-year career in applied entomology, where he combined his love for teaching & entomology as Manager of Technical Services. Marvin has taught the Insect Taxonomy/Ecology for the Ontario Universities Program in field Biology (OUPFB) at the Queen's University Biological Station near Elgin for 24 years. Marv has also taught insect modules locally and abroad (Honduras, 2009 and Costa Rica, 2010), lectured and led tutorials about insects in several undergraduate courses at McMaster University.

**Dave Cheung** spent most of his days rigging up electronics in unforeseeable ways and chasing insects with a net as a child. He now blends his passions of entomology, technology, and education. Dave has worked as a collection manager at the Natural History Museum of Denmark and has experience teaching numerous entomology courses including, the University of Guelph, University of Copenhagen, Ontario Universities Program in Field Biology and Niagara College. Dave is now focused on building DKB Digital Designs which is dedicated to developing educational software such as [Bugdex](#) and [BugFinder](#).

**Jen Llewellyn** spent 23 years as the Provincial Nursery and Landscape Specialist with OMAFRA. She holds a B.Sc. and M.Sc. in Horticulture from the University of Guelph and is also an ISA Certified Arborist. Jen has had the privilege of working closely with the nursery, landscape and arboriculture sectors to troubleshoot challenges with the production and maintenance of woody and herbaceous ornamental plants with an emphasis in plant health. She has recently moved to the private sector and is now a Consulting Arborist & Biologist with her husband at Green Bird Horticultural Ltd.

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**Diversity of insects**  
Discover the major groups of insects. Learn about what makes them different and how to tell them apart. Identify which orders include pests and beneficial insects.



9:00  
am

10:00  
am



**Insect Guess Who**  
Put your new found skills to the test. Come up with strategic yes or no questions to identify your opposing team's specimen before yours is exposed.

**Group Collecting**  
Explore the beautiful surrounds at QUBS while collecting insects. Learn how to wield the various insect collecting tools and put that knowledge to practice.



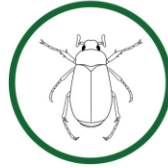
11:00  
am

12:00  
am



**Lunch**  
Enjoy a delicious and nutritious warm meal prepared by the friendly kitchen staff at QUBS.

**Coleoptera**  
Learn about the amazing world of beetles in this lecture. You will learn how to identify common beetle families as well as certain pest species relevant to the industry.



1:00  
pm

2:00  
pm



**Speed ID**  
In this fast-paced game, you will learn to hone your eye to look for diagnostic characteristics. Make use of special cards to boost your points or prevent other teams from getting ahead.

**Night Collecting**  
End of the day with a visit to the insect light trap. Encounter some of the big and beautiful insects species found right here at QUBS, such as longhorn beetles, dobsonflies and sphinx moths.



10:30  
pm

Typical day at the workshop. Lectures are broken-up with fun, high-energy games and collecting trips.



Refine your imaging skills through our interactive studio and field photography workshops. Discover techniques to enhance the quality of your diagnostic images.

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Seize the opportunity to explore the stunning and tranquil campus at the Queens Biological Research Station during breaks and moments of camaraderie. Not only will you delve into the fascinating world of insects, but you'll also do so alongside like-minded individuals.