

Technology Transfer Program



2018 UPDATE



The Team

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+ summer students



Workshops



Basic:

- Introductory Beekeeping
- Integrated Pest Management
- Queen Rearing

Advanced:

- Integrated Pest Management
- Queen Breeding







Apiology 101

Introduction to Beekeeping



This beginner beekeeping course consists of modules that teach you everything you need to know to get started keeping your own bees. Topics include basic honey bee biology, beekeeping equipment, working in the bee colony, seasonal beekeeper

Integrated Pest Management



This intermediate beekeeping workshop consists of modules that teach you everything you need to know to keep your bees alive and healthy. Topics include pest and disease biology and identification, monitoring for pests and diseases, record keeping, treatments

Ontario Resistant Honey Bee Selection Program



- “...helping Ontario bee breeders select for improved genetic stock since 1992!”
- Collaborative effort between OBA Technology Transfer Team (TTP) and Ontario Bee Breeders Association
- Desirable traits selected by breeders, then hygienic testing is conducted on preferred colonies by TTP technicians
- Highest performing colonies are then selected and bred within a controlled mating system



Hygienic Testing

- Breeder selected colonies
- Freeze kill young brood
- Assess tested areas after 24 hrs
- Rank colonies 1-5 based
- Collect samples for Varroa mite, tracheal mite, and *Nosema* testing
- Breeders use top ranking colonies



← Bad

Good →



Huntsville Isolated Mating Yard

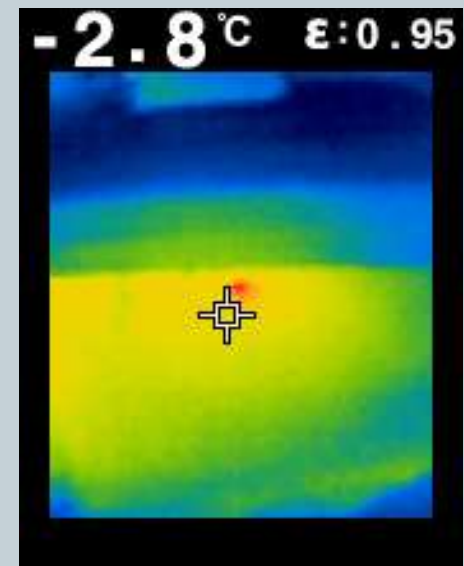
- Reserve of desirable genetics
- Open for ORHBS members to use as a mating yard
- Set-up in summer of 2015, ongoing.

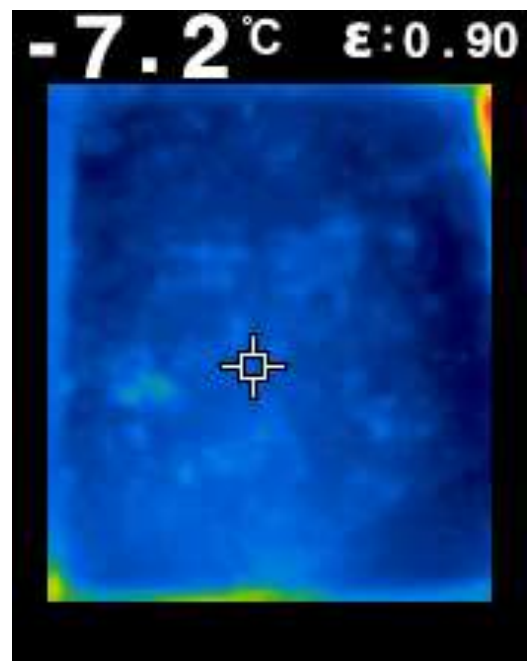
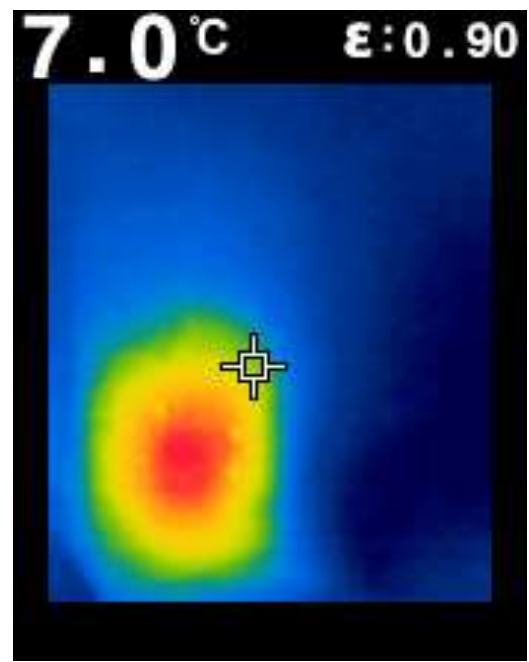
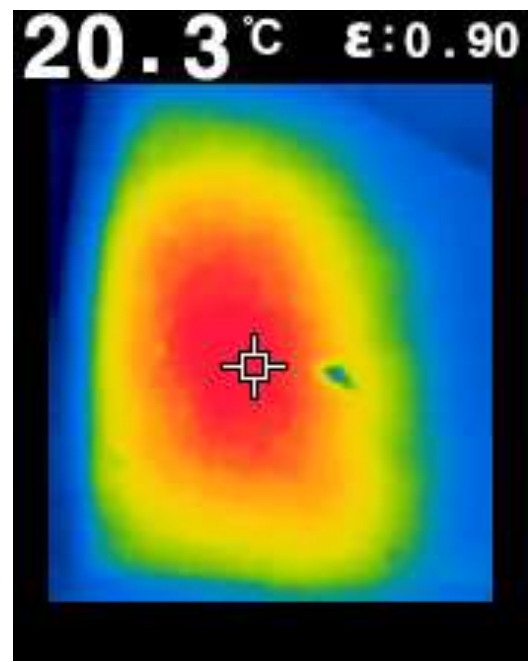
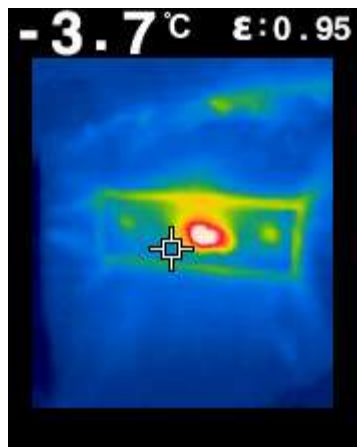
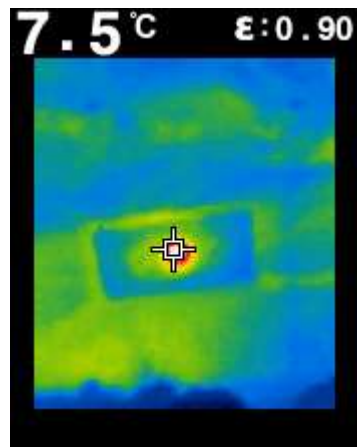
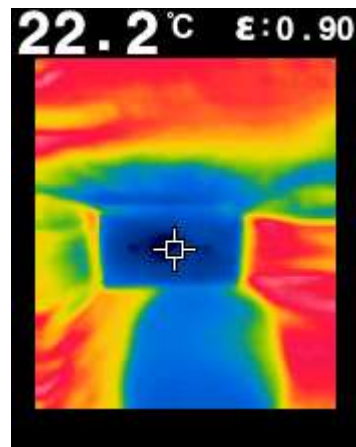


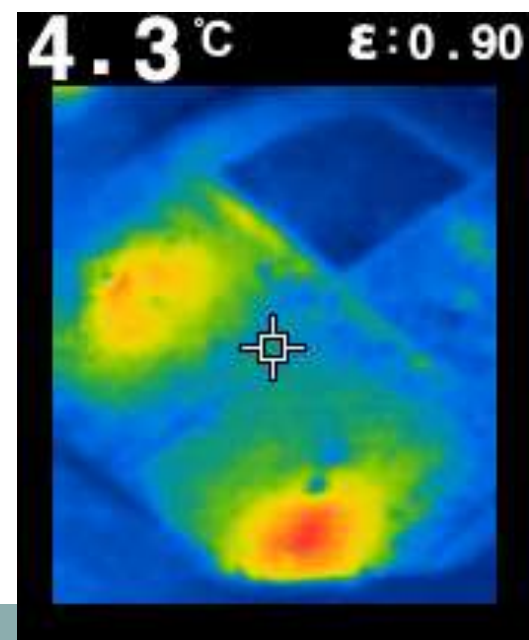
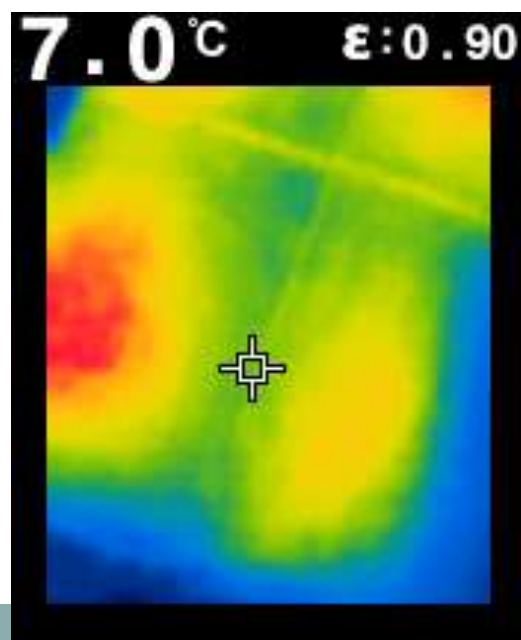
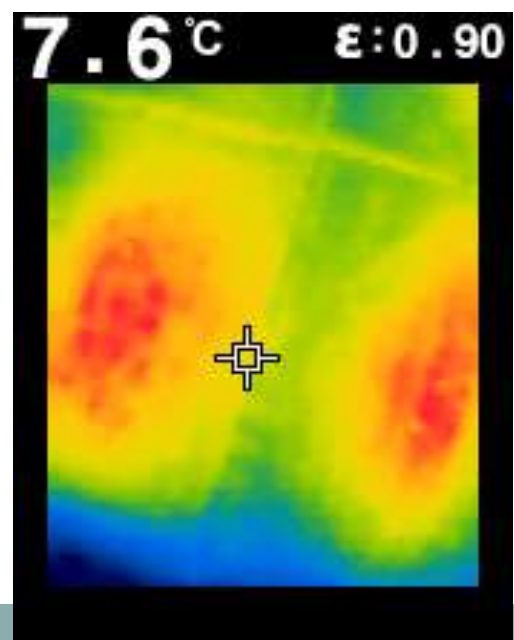
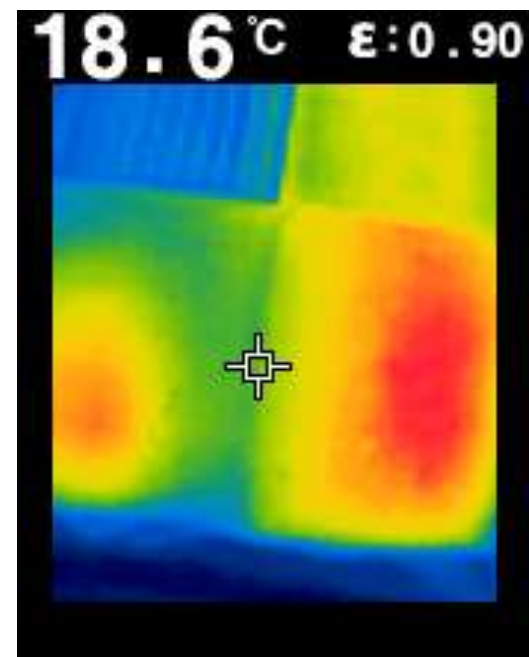
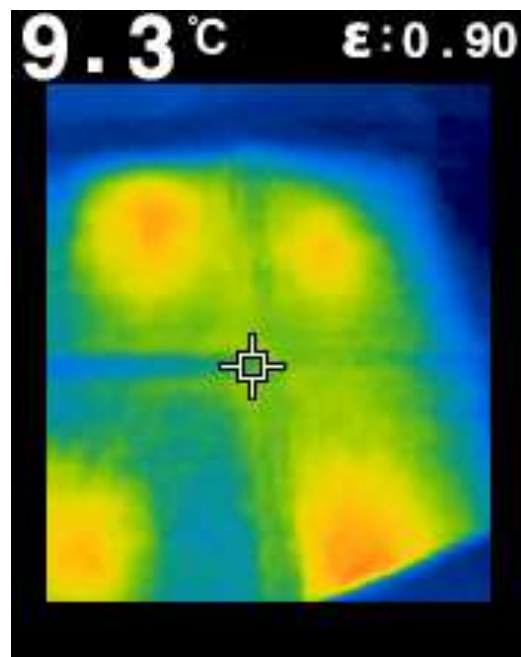
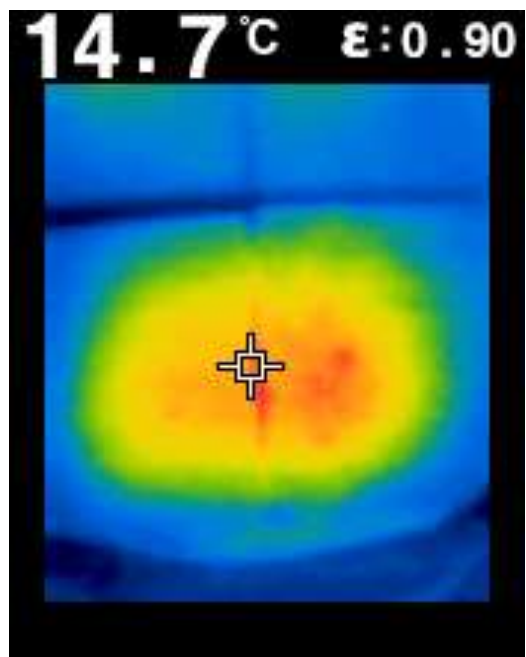
Other Research Projects for 2018

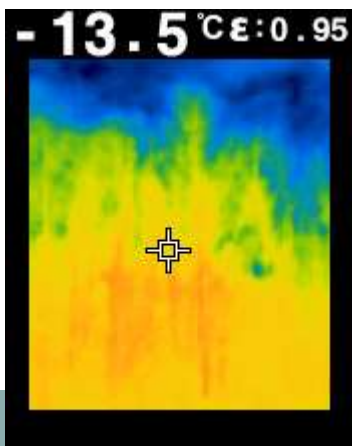
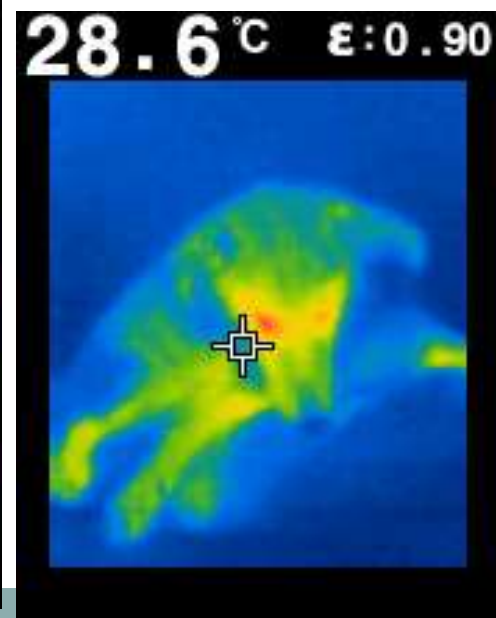
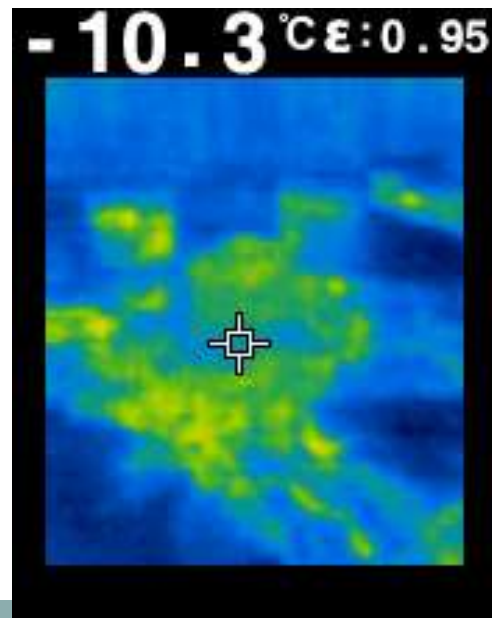
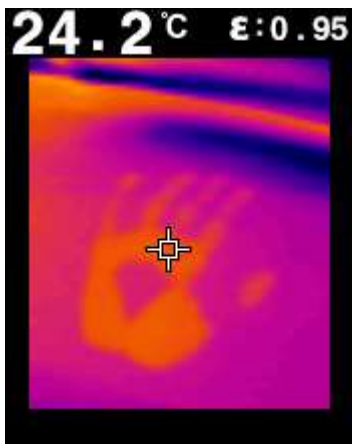
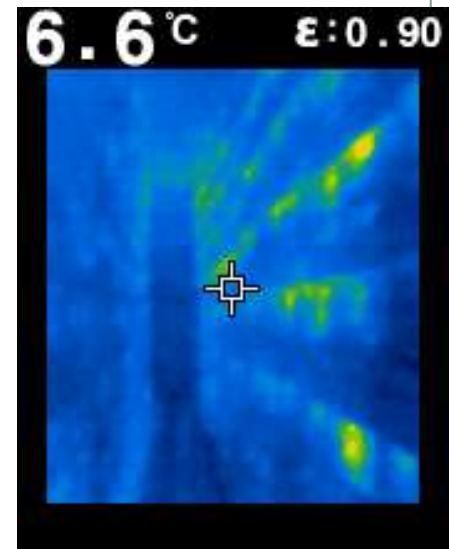
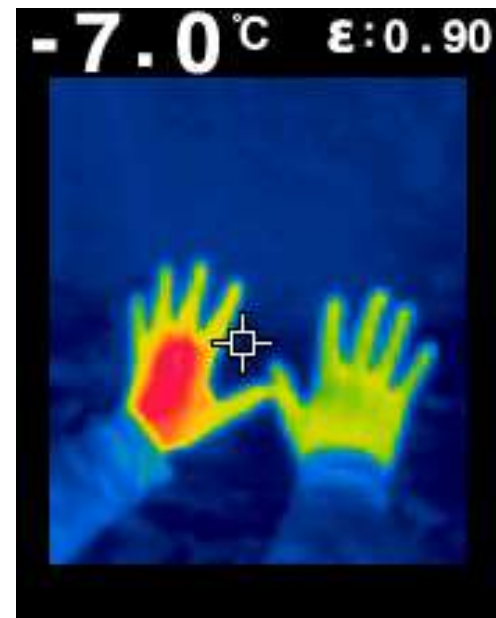
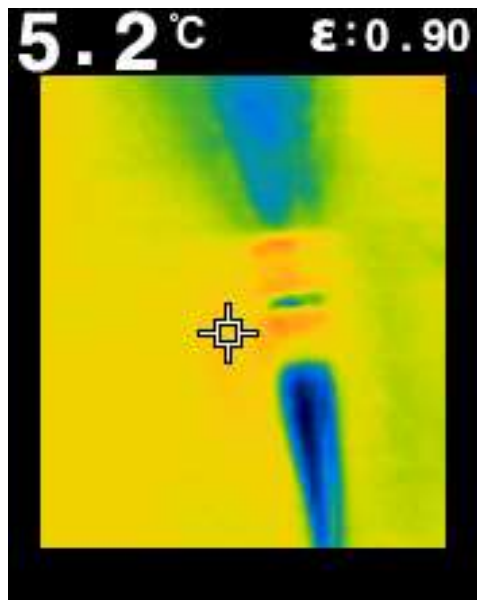


- Using Thermal Imaging as a Monitoring Tool











FLIR One Pro

FLIR TG 165

FLIR E6



Mid-range
Accessible
On sale at Canadian Tire

Other Research Projects for 2018



- Mid-season treatments for Varroa mites

Apidologie (2016) 47:596–605
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DOI: [10.1007/s13592-015-0405-7](https://doi.org/10.1007/s13592-015-0405-7)

Original article

A new formulation of oxalic acid for *Varroa destructor* control applied in *Apis mellifera* colonies in the presence of brood

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Martin EGUARAS^{1,2}

Other Research Projects for 2018



- Grooming Behaviour
- Collaboration with Dr. Ernesto Guzman at the University of Guelph



Other Research Projects for 2018



- Varroa Sensitive Hygiene
- Collaboration with Dr. Pierre Giovenazzo from the Université Laval



Other hot topics...



- **New Antibiotic Regulations**



Thank you.



QUESTIONS?