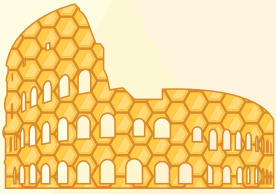




NEW APPROACHES TO HONEY BEE HEALTH

Rome 13th - 15th Feb 2019

PROGRAMME



HONEY BEE HEALTH SYMPOSIUM 2019

13 FEBRUARY 2019

07.45 Registration and set-up of Poster Session 1: "Good Beekeeping Practices"

OPENING SESSION

Chairs: *Riccardo Jannoni-Sebastianini* – Apimondia and *Giovanni Formato* – IZSLT

08.30 Welcome from organizers

Italian Ministry of Health – *Silvio Borrello, Gaetana Ferri*

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT) – *Ugo Della Marta*

Apimondia – *Peter Kozmus*

08.50 Welcome from supporting organizations

Food and Agriculture Organization (FAO) – *Berhe Tekola*

Italian Ministry of Agriculture – *Alessandra Pesce*

Italian Ministry of Environment – *Carlo Zaghi*

PLENARY SESSION

AN OVERVIEW OF THE HONEY BEE PATHOLOGIES IN 2019

09.10 EU Honey Bee Health perspectives

Michele Mortarino – Veterinary Faculty, University of Milan

09.30 Extra-EU Honey Bee Health perspectives

Jeff Pettis – Apimondia

09.50 FAO perspectives on honey bees in terms of animal health and food security

Juan Lubroth – FAO - Animal Production and Health Division (AGA)

10.10 Discussion

10.30 Coffee break

SESSION

GOOD BEEKEEPING PRACTICES - GBPS

11.00 Pre-clinical indicators as innovative tools in beekeeping, in the context of the BPRACTICES project

Giovanni Formato – IZSLT

11.20 HIVELOG and the Internet of Things – IoT

Flemming Vejsnaes – Danish Beekeeping Association DBA, Denmark

11.40 Why Veterinary prescription in beekeeping

Rens van Dobbenburgh – FVE

12.00 Discussion on "GBP"

12.00 *Scientific contributions on "Good Beekeeping Practices" (part I)*

- Blocks for Bees: Using Blockchain Technology to Keep Honeybee Enterprises Healthy
- Investigation on the use of veterinary medicinal products and best practices in beekeeping
- First attempt of standardization of official control procedures at the apiary level
- Honey bee in the history: a golden standard to train human being
- Best management practices for every beekeeper



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- The control of beekeeping in Italy, between problems and perspectives: certainly more than just a challenge
- Determination of a new efficient biomarker to evaluate the health and productivity of honey bees

13.00 **Lunch**

14.30 *Scientific contributions on "Good Beekeeping Practices" (part II)*

SESSION

AETHINA TUMIDA – THE SMALL HIVE BEETLE (SHB)

Chair: *Marc Oliver Schaefer – Aethina tumida -Small hive beetle- OIE Reference Laboratory and Andrea Maroni Ponti – Ministry of Health*

14.50 **An update on small hive beetles**

Peter Neumann – University of Bern

15. 10 **Small hive beetle invasion in EU**

Franco Mutinelli – National Reference Laboratory for Apiculture, Italy

15. 30 **Comparison of two colony inspection methods for the detection of Small Hive Beetle (SHB) in Calabria region (Italy)**

Jorge Rivera Gomis – IZSLT

15.50 **Discussion on "Aethina tumida – The Small Hive Beetle (SHB)"**

16.10 **Coffee break**

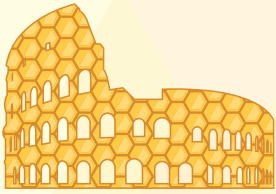
16.30 PRACTICAL DEMONSTRATIONS

Using An Open Apiary Management System to Help Meet Key U.N. Sustainable Development Goals

Joseph Cazier and James Wilkes – Appalachian State University – USA

17.10 **End of Poster Session 1: "Good Beekeeping Practices"**

Note: first 2 days of symposium in the Grand Hotel Palatino – Via Cavour 213, Rome; the 3rd day (optional, registration is needed) of technical tour (to visit a professional beekeeper's facilities, nearby Rome)



HONEY BEE HEALTH SYMPOSIUM 2019

14 FEBRUARY 2019

08.45 Set up of Poster Session 2 “Honey Bee Diseases”
and Poster Session 3 “Honey Bees, Environmental Pollution and Pesticides”

SESSION

MAIN HB DISEASES

Chair: *Jeff Pettis* – Apimondia and *Benjamin Dainat* – Agroscope

09.00 *Varroa* resistant Honey Bees
Benjamin Dainat – Agroscope

09.20 Updates on *Nosema ceranae*
Mariano Higes and *Raquel Martín-Hernández* – Centro de Investigación Apícola y Agroambiental de Marchamalo

09.40 Diagnosis and control of AFB and EFB
Emanuele Carpana – CREA

10.00 Use and management of veterinary medicines in beekeeping
Salvatore Macrì – Ministry of Health

10.20 Discussion on “Main HB diseases”

10.30 **Coffee break**

11.00 *Scientific contributions on “Main HB diseases”*

- Bee Varroa Scanner
- First molecular clone of Chronic Bee Paralysis Virus (CBPV)
- Hive debris (ring tests) to diagnose AFB, EFB, *Nosema* spp. and SHB
- Recombinant expression and purification of VP1 of Sacbrood virus
- Recent findings of parasitic phorid flies in honey bee
- Beeheal: Monitoring microsporidia and viruses in honey bee colonies in Spain

12.30 Discussion on “Main HB diseases”

13.00 **Lunch**

14.30 End of Poster Session 2 “Honey Bee Diseases”
and Poster Session 3 “Honey Bees, Environmental Pollution and Pesticides”

14.30 **PARALLEL SESSIONS**

1 – SESSION

HONEY BEES, ENVIRONMENTAL POLLUTION AND PESTICIDES

or

2 – SESSION

SHB IN CALABRIA REGION: ECONOMIC IMPACT AND FINANCING



NEW APPROACHES TO HONEY BEE HEALTH

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1 – SESSION

HONEY BEES, ENVIRONMENTAL POLLUTION AND PESTICIDES

Chairs: *Diego Pagani* – Apimondia and *Alberto Masci* – Ministry of Agriculture

- 14.30 Bees protection and sustainable land management
Lorenzo Ciccarese – ISPRA
- 14.50 Using pollen to monitor pesticide environmental pollution with a citizen scientist approach: the INSIGNA project
Jozef van der Steen – Alveus AB Consultancy
- 15.10 Honey bee (*Apis mellifera* spp.) and apiculture: essential components for a sustainable global growth
Michele Amorena – University of Teramo
- 15.30 Discussion on “Honey bees, environmental pollution and pesticides”
- 15.50 Coffee break
- 15.40 Scientific contributions on “HB, environmental pollution and pesticides”
- 16.20 Oral presentations on “HB, environmental pollution and pesticides”
- Does thiamethoxam effect honey bee queen (*Apis mellifera carnica*) development?
 - Development of Some Residue Free Honey Bee (*Apis mellifera*) Colonies
 - A meta-analysis to quantify toxicity of binary mixtures in bee species: evidence for deviation from dose addition and mechanistic implications

2 – SESSION

SHB IN CALABRIA REGION: ECONOMIC ASPECTS AND FINANCING OF THE BEEKEEPING SECTOR

- 14.30 SHB in Italy: economic considerations and financing
Cristina Salvioni – University of Chieti-Pescara, Italy
- 14.50 Round Table* part I
- 15.50 Coffee break
- 14.50 Round Table* part II

*with the participation of: *Asger Sogaard Jørgensen* (Apimondia), *Dr. Marco Pellegrini* (Ministry of Agriculture), *Dr. Andrea Maroni Ponti* (Ministry of Health), *Emilia Reda* (CREA-PB), *Dr. Gianluca Grandinetti* (Calabria Region), *Raffaele Cirone* (FAI – Italian Beekeepers’ Federation), *Giuseppe Cefalo* (UNAAPI – National Union of Italian Beekeepers), *Antonio D’Angeli* (ANAI – National Association of Italian Beekeepers), *Diego Pagani* (CONAPI – Italian Beekeepers’ National Consortium).

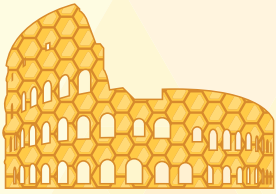
16.50 PRACTICAL DEMONSTRATIONS

Innovative methods to assist beekeepers in controlling *Varroa destructor*: “Treat in time”
Pasquale Rombolà and *Marco Pietropaoli* – IZSLT

Innovative, non-invasing pollen sampling methods

Giulio Loglio – Veterinary Services ASL BG; *Sjef van der Steen* – Alveus AB Consultancy)

- 17.20 Conclusions of the Honey Bee Health symposium 2018 from organizers
Ugo Della Marta – IZSLT
Peter Kozmus and *Riccardo Jannoni-Sebastianini* – Apimondia



HONEY BEE HEALTH SYMPOSIUM 2019

15 FEBRUARY 2019

TECHNICAL TOUR IN COLLABORATION WITH PROFESSIONAL BEEKEEPERS

Local organizer: *Marco Pietropaoli* – IZSLT