

## AUGUST 26<sup>th</sup>, 2022 - Friday

### USKUDAR HALL 1 & 2

09:00 - 13:00

### MAJOR SYMPOSIUM / CLIMATE CHANGE

Moderator: *Etienne Bruneau*

- 09:00 - 09:40 Challenges linked to Climate Change and his observe and projected Weather Extremes  
*Etienne Bruneau*
- 09:40 - 09:50 **BREAK**
- 09:50 - 10:30 How to improve biological resilience to climate and pathogens?  
*Coby van Dooremalen*
- 10:30 - 10:40 **BREAK**
- 10:40 - 11:00 Future Perspective of Beekeeping in MENA (Middle East North Africa) Region Under Scenarios of Climate Change.  
*Nizar Haddad*
- 11:00 - 11:20 How to maintain and increase natural food ressources for our bees?  
*Lucas Garibaldi*
- 11:20 - 11:30 **BREAK**
- 11:30 - 11:50 How to secure the incomes of professional beekeepers facing a lack of production stability and market volatility  
*Norberto Garcia*
- 11:50 - 12:10 Digital tools help the beekeepers in front of Climate Changes  
*Orianne Rolin*
- 12:10 - 13:00 QUESTIONS TO THE PANEL
- 13:00 - 14:00 **LUNCH BREAK**

### USKUDAR HALL 3

09:00 - 10:45

### SYMPOSIUM / BEEKEEPING FOR RURAL DEVELOPMENT BEEKEEPING AND RURAL LIVELIHOODS WORLDWIDE II

Moderators: *Megan Denver & Vera Lucia Imperatriz Fonseca*

- 09:00 - 09:15 Development efforts to advance good practices and bee health for increasing honey production by rural beekeepers of the Kingdom of Saudi Arabia  
*Nuru Adgaba Mohammed*
- 09:15 - 09:30 Natural beekeeping for visitor attractions and public spaces  
*Paula Carnell*
- 09:30 - 09:45 Making beekeeping accessible for everyone: Breaking down the barriers of Disability in Uganda  
*Phionah Birungi*
- 09:45 - 10:00 Local experience: Concrete and cardboard for an ecological and economical hive (Togo)  
*Kodjo Logou Agossou*

- 10:00 - 10:15 Mobile Honey: Open-source traceability for honey and beeswax in Ghana  
**Giacomo Ciriello**
- 10:15 - 10:30 First detection of Nosema ceranae and black queen cell virus in Ghana  
**Lucija Žvokelj**
- 10:30 - 10:45 Report on the effectiveness of control measures in response to an outbreak of severe infestations of Aethina tumida in apiaries across Bono East Region, Ghana  
**Stephen Adu**

**10:45 - 11:15 BREAK**

**USKUDAR  
HALL 3  
11:15 - 13:00**

**SYMPOSIUM / BEEKEEPING FOR RURAL DEVELOPMENT  
FORESTS, BEES AND LIVELIHOODS**

**Moderators: Nicola Bradbear & Irfan Kandemir**

- 11:15 - 11:30 Promoting beekeeping and conservation in bioserve area in Turkey: A success story of Ali Nihat Gökyiğit Foundation (ANG)  
**Irfan Kandemir**
- 11:30 - 11:45 Planning Migratory Beekeeping with a Genetic Algorithm Based Approach for Sustainable Precision  
**Emine Özçelik**
- 11:45 - 12:00 Sustainable Agriculture for Migratory Beekeepers Considering Urbanization Plans  
**Emine Özçelik**
- 12:00 - 12:15 Integration of Beekeeping into Acacia-Based Industrial Forestry: A New Perspective  
**Muhamad Pangky Sucahyono**
- 12:15 - 12:30 Stationary microbeekeeping protocol improve a quantitative and qualitative properties of tropical honey  
**Orawan Duangphakdee**
- 12:30 - 12:45 Climate change threatens the conservation of an endangered Brazilian stingless bee species  
**Vera Lucia Imperatriz Fonseca**
- 12:45 - 13:00 Technology of wild hive beekeeping and of other bashkir traditional crafts  
**Aglyam Sharipov**

**13:00 - 14:00 LUNCH BREAK**

**EMIRGAN  
HALL  
09:00 - 10:45**

**SYMPOSIUM / BEE BIOLOGY  
BEE BEHAVIOUR, PHYSIOLOGY AND GENETICS**

**Moderators: Dr. Dilek Muz & Raquel de Sousa**

- 09:00 - 09:15 Adenosine signaling regulates the wingbeat frequency of Apis mellifera upon stress response  
**Yu Chun Lin**
- 09:15 - 09:30 The permeability of cell cappings to gases, volatiles, pathogens and acaricides  
**Alena Bruce Krejci**



- 09:30 - 09:45 Evaluation under field conditions of the effect of genetic origin, environment, and time of year on the characteristics of collected pollen, produced bee bread and nutritional status of *Apis mellifera*  
***Maria Alejandra Palacio***
- 09:45 - 10:00 Vitellogenin gene: A powerful genetic marker for the determination of honey bee subspecies  
***Ayça Özkan Koca***
- 10:00 - 10:15 Investigation of Bee Bread Use Efficiency in (*Bombus terrestris* L.) Before Social Phase  
***Salim Aktürk***
- 10:15 - 10:30 A new Acaricidal Compound Against Varroa  
***Stephen F. Pernal***
- 10:30 - 10:45 Behavioural regulation of mineral salt intake in the adult worker honey bee  
***Raquel de Sousa***

**10:45 - 11:00 BREAK**

**USKUDAR  
HALL 1 & 2  
14:00 - 15:45**

**SYMPOSIUM / APITHERAPY  
INNOVATE TECHNOLOGIES IN API-PRODUCTS AND APITHERAPY**

**Moderator: *Prof. Dr. Badiia Lyoussi***

- 14:00 - 14:15 Proteomic studies and its antimicrobial activity of honeybee venom collected from *Apis dorsata*, *Apis cerana*, *Apis mellifera* and *Apis florea* species of Karnataka - India.  
***Bhargava Hunkunda Radhakrishna***
- 14:15 - 14:30 Development of cream formulations enriched with honeybee (*Apis mellifera* L.) venom and bee products  
***Aslı Elif Tanuğur Samancı***
- 14:30 - 14:45 Immunomodulating Effect of water-soluble propolis extracts of green, red propolis and brown propolis (WEEP-GBR)  
***Jiheon Lee***
- 14:45 - 15:00 Propolis: Sustainability for the Honeybee - Sustainable Medicine for man?  
***James Townsend Fearnley***
- 15:00 - 15:15 Simultaneous Optimization of Extraction Yield, Phenolic Compounds and Antioxidant Activity of Moroccan Propolis Extracts: Improvement of Ultrasound-Assisted Technique Using Response Surface Methodology  
***Badiia Lyoussi***
- 15:15 - 15:30 An important product in the development of effective alternative nanocomposites for use in medical and environmental areas: A honey bee silk  
***Sual Tatlısulu***
- 15:30 - 15:45 Current status of bee venom research and industrialization in Korea  
***Sang Mi Han***

**15:45 - 16:00 BREAK**

**USKUDAR  
HALL 3  
14:00 - 16:00**

**SYMPOSIUM / BEE HEALTH  
LOOKING TOWARDS RESISTANT BEES**

**Moderators: *Fani Hatjina & Steve Rogenstein***

- 14:00 - 14:15 The potential use of fermented bee pollen as a probiotic supplement for bees  
***Adriana Cristina Urcan***
- 14:15 - 14:30 Breeding honey bees for low Varroa growth (LVG) in Canada  
***Ernesto Guzman Novoa***



- 14:30 - 14:45 Honey Bee Watch: an international scientific initiative for the protection of survivor colonies  
**Steve Rogenstein**
- 14:45 - 15:00 The nature of a survivor: population dynamics of Varroa destructor in a resistant, commercial honeybee (*Apis mellifera*) population over the active season  
**Melissa Oddie**
- 15:00 - 15:15 Comparison of the Performance of Four Honeybee Breeds (Carnica, Italian, Meda and a Meda-Carnica Hybrid) in the Mountainous Areas of Western Iran  
**Mokhtar Ghaffari**
- 15:15 - 15:30 A review on genetic resistance to the Varroa mite in honey bees  
**Mohammad Razmkabir**
- 15:30 - 15:45 Determination of Expression Levels of Some Candidate Genes Responsible for Grooming Behavior in Muğla honey bee (*Apis mellifera anatoliaca*) population bred against Varroa  
**Dilek Kabakçı**
- 15:45 - 16:00 Keep it simple: the power of ranking test results in the context of breeding for resilient honey bees  
**Dirk de Graaf**
- 16:00 - 16:15 BREAK**

## EMIRGAN HALL

**14:00 - 16:00**

## SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY - ECONOMY BEE PRACTICES AND PRODUCTS

**Moderators: *Ufuk Alpat***

- 14:00 - 14:15 Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain  
**Ana Diéguez Antón**
- 14:15 - 14:30 Comparison of different preservation treatments and the effect on quality descriptor parameters in bee pollen  
**Enrique Mejias**
- 14:30 - 14:45 Mapping the conceptual structure of beekeeping from 1981 to 2020  
**Shehu Folaranmi Gbolahan Yusuf**
- 14:45 - 15:00 How ready are beekeepers for Precision Apiculture Systems (P.A.S.)? A pan-European survey  
**Philippos Vardakas**
- 15:00 - 15:15 Speaking of Bees  
**Ted Dennard**
- 15:15 - 15:30 Organic Beekeeping Businesses in Turkey: Economic Structure and Sustainability  
**Tunay Kılıçin**
- 15:30 - 15:45 Physical, Chemical Features and Mineral Substance Profile of Turkish Pine Honey  
**Nevzat Artık**
- 15:45 - 16:00 The effect of Covid on the honey sales of the hobbyist beekeeper in Ireland  
**Eleanor Attridge**
- 16:00 - 16:15 BREAK**

## USKUDAR HALL 1 & 2

**16:15 - 17:15**

## ROUND TABLE: BEEKEEPING IN THE WORLD

**Moderated by Apimondia Federation**

- 16:15 - 17:15 Apimondia Presidents will discuss issues in each area of the globe and issues affecting beekeepers and bees



**USKUDAR  
HALL 3  
16:15 - 17:15**

**WORKSHOP: BREEDING FOR RESISTANT BEES**

**Moderator: Fani Hatjina**

16:15 - 17:15

BREEDING FOR RESISTANT BEES

**Panellists: Raquel De Sousa & Pierre Giovenazzo & Ernesto Guzman-Navoa & Melissa Oddie**

**EMIRGAN  
HALL  
16:15 - 18:15**

**SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY  
BEE PRACTICES AND BREEDING**

**Moderator: Pierre Giovenazzo**

16:15 - 16:30

Virtual Reality in Training of Beekeeping: Seeing Future Through Virtual Hives  
**Sedat Sevin**

16:30 - 16:45

Online blooming reporting system for beekeepers  
**Ole Kilpinen**

16:45 - 17:00

Effects of Different Levels of Chelated Mineral Supplement (Bonza®Bee) On the Population Size and Brood Rearing in Honey Bee Colonies  
**Reza Bideshki**

17:00 - 17:15

Monitoring honeybees' health using environmental DNA (eDNA) contained in honey  
**Solenn Patalano**

17:15 - 17:30

Advances in palynological analysis of bee pollen loads  
**Aslı Özkök**

17:30 - 17:45

The strenuous road toward honeybee stock self-sufficiency  
**Pierre Giovenazzo**

17:45 - 18:00

Effects of Various Mechanical Factors on Honeybee Sperm  
**Abdulkadir Kaya**

18:00 - 18:15

Comparison of the chromatographic and palynological methods used to identify the botanical origin of propolis: Which method is more reliable?  
**Etil Güzelmeriç**

