

# Wednesday 16 September

## BEE BIOLOGY COMMISSION - PLENARY SESSION "NEW DEVELOPMENT IN HONEY SCIENCE" WEDNESDAY 16th MORNING

BERLIOZ ROOM

Chair: Karl Crailsheim (Austria)

Time	Authors	Co-authors	Country	Abstracts
09:00-09:20	<b>CRAILSHEIM Karl</b>		Austria	
	What is new in honeybee science			
09:20-10:00	<b>MENZEL Randolph</b>		Germany	01
	The little brain of the bee is a master in navigation, communication and learning. How does it do it?»			
10:00-10:20	<b>ALAUX Cédric</b>	Saurabh Sinha, Linda Hasadsri, Greg J. Hunt, Ernesto Guzmán-Novoa, Gloria Degrandi-Hoffman, José Luis Uribe-Rubio, Bruce R. Southey, Sandra Rodriguez-Zas, Gene E. Robinson	France	02
	Fighting bees: genomic basis of aggressiveness in honeybees			
10:20-10:40	<b>MAISONNASSE Alban</b>	Jean-Christophe Lenoir, Guy Costagliola, Dominique Beslay, Erika Plettner, Yves Le Conte	France	03
	Pheromones: a key in honeybee social regulation, the case of worker ovary regulation.			
10:40-11:00	<b>ODOUX Jean-François</b>	Aupinel P., Bretagnolle V., Toulet C., Peyrat E.	France	04
	Landscape factors liable to influence bee colonies development			
11:00-11:20	Break			
11:20-11:40	<b>GARNERY Lionel</b>		France	05
	Biodiversity of the honeybee: evolutionary history and geographical races formation			
11:40-12:00	<b>KRALJ Jasna</b>	Axel Brockmann, Jürgen Tautz	Slovenia	06
	Common effects of varroasis and nose mites on learning abilities of honeybee foragers <i>Apis mellifera carnica</i>			
12:00-12:20	<b>RANGEL Juliana</b>	Heather R. Mattila, Thomas D. Seeley	USA	07
	No nepotism during colony fission in honeybees			
12:20-12:40	<b>DAINAT Benjamin</b>	Mark K Greco, Peter Neumann	France	08
	Spatial distribution of diseased workers in honeybee winter clusters revealed by diagnostic radioisotomology			
12:40-13:00	<b>DIETEMANN Vincent</b>		Switzerland	09
	Mating isolation between subspecies of honeybee ( <i>Apis mellifera</i> ) on an island			

## BEE HEALTH COMMISSION - SYMPOSIUM 1 "COLONY LOSSES" WEDNESDAY 16th MORNING

EINSTEIN ROOM

Chair: Peter Neumann (Switzerland)

Time	Authors	Co-authors	Country	Abstracts
09:00-09:20	<b>SHI Wei</b>		China	10
	Colony losses in China			
09:20-09:40	<b>VAN ENGELSDORP Dennis</b>	Jay Evans, Claude Saegerman, Chris Mullin, Eric Haubruge, Jeff Pettis	USA	11
	A descriptive epidemiological study of honeybee colony			
09:40-10:00	<b>MUTINELLI Franco</b>	Anna Gloria Sabatini, Albino Gallina, Piotr Medrzycki, Fabio Sgolastra, Laura Bortolotti, Claudio, Porrini	Italy	12
	Apenet: network for monitoring honeybee mortality and colony losses in Italy			
10:00-10:20	<b>HADDAD Nizar</b>	A. Bataeneh, I. Albaba, Dany Obeid, Shelan Abdulrahman	Jordan	13
	Status of colony losses in the Middle East			
10:20-10:40	<b>DE JONG David</b>		Brazil	14
	Colony collapse disease in Brazil			
10:40-11:00	<b>CHAUZAT Marie-Pierre</b>	Sarah Zeggane, Patrick Drajnudel, Marie-Claude Clement, Anne-Claire Martel, Frank Schurr, Magali Ribière	France	15
	Case studies on mortalities of honeybee colonies ( <i>Apis mellifera</i> ) in France during the 2005-2006 winter			

11:00-11:20	<b>Break</b>			
11:20-11:40	<b>CHAGNON Madeleine</b>	Monique Boily, Genevieve Beauoyer	Canada	16
	Impacts of pesticides used in Quebec (Canada) corn fields on honeybee colonies			
11:40-12:00	<b>BLACQUIERE Tjeerd</b>	Bram Cornelissen, Lonne Gerritsen, Jozef van der Stehen	Netherlands	17
	Winter survival of honeybee colonies depends on the timing of varroa control			
12:00-12:20	<b>HIGES Mariano</b>	Raquel Martin-Hernandez, Encarna Garrido-Bailon, Amelia V. Gonzalez-Porto, Pilar Garcia-Palencia, Aranzazu Meana, Maria J. del Nozal, Juan Jose Jimenez, Jose Bernal, Jose L. Bernal	Spain	18
	Honey bee colony collapse due to <i>Nosema ceranae</i> in professional apiaries			
12:20-12:40	<b>SOROKER Victoria</b>	A. Hetzroni, B. Yacobson, H. Voet, S. Slabezki, H. Efrat, N. Chejanovsky	Israel	19
	Colony losses in Israel: incidence of viral infection and beehive populations			
12:40-13:00	<b>CRAILSHEIM Karl</b>	Ales Gregorc, Robert Brodschneider	Austria	20
	Cooperation of laboratories from different countries searching for factors stressing honeybees			

**ROUND TABLE 1 - VETERINARIANS AND BEEKEEPING WEDNESDAY 16 SEPTEMBER MORNING PASTEUR ROOM**

9:00-13:00

*Up until recently, veterinary schools were little concerned by the health of bees. From now on, however, in coordination with beekeeping structures, veterinarians having followed specialised training should play an essential role in beekeeping pathology cases.*

**Moderator:** Monique L'HOSTIS - **Speakers** (to be confirmed)

**The opinion of beekeepers on the role of vets in beekeeping.**  
Henri CLÉMENT, President of the Union Nationales de l'Apiculture Française.

**Sanitary organisation of the French beekeeping sector**  
Jean-Marie BARBANCON, Veterinary Doctor and beekeeper – France

**Italy: bees, honey and veterinarians**  
GIANLUIGI, Veterinary Doctor

**Veterinarians and beekeeping in Canada**  
Claude BOUCHER, Veterinary Doctor MAPAQ, CQIASA – Quebec

**The role of veterinarians in beekeeping in Turkey.**  
Levent AYDIN Parasitology Department - Uludağ University, Veterinary Faculty

**Belgium: bees, honey and veterinarians.**  
Bill VANDAELE, Veterinary Doctor

**Training and veterinary specialisation in beekeeping pathologies: current situation and perspectives in Tunisia.**  
Taoufik BEN HAMIDA, Veterinary Doctor from the Institute of Veterinary Research of Tunisie

**The veterinary profession and beekeeping in Spain.**  
Alfredo SANZ VILLALBA, ARNA

**Veterinarians in the beekeeping sector in France: training, research, thought-provoking group, sanitary management**  
Monique L'HOSTIS, Jean-Marie BARBANCON, Nicolas VIDAL-NAQUET, Marc-Edouard COLIN, Group of Veterinary Doctors specialised in bee health.

*Other topics to be addressed : The legal situation for pharmaceutical Veterinarians in Europe The sanitary interests of the structure involving a group of European Veterinarians.*

**POLLINATION AND BEE FLORA COMMISSION - PLENARY SESSION WEDNESDAY 16th AFTERNOON BERLIOZ ROOM**

Chair: Marinus Sommeijer (Netherlands)

Time	Authors	Co-authors	Country	Abstracts
14:30-14:50	<b>SOMMEIJER Marinus J.</b>		Netherlands	
	Introduction, Bee pollination, problems and opportunities			
14:50-15:30	<b>BIESMEIJER Koos</b>		United Kingdom	21
	Pollinator declines in Europe: overview of patterns and causes			
15:30-16:10	<b>VAISSIERE Bernard</b>		France	22
	Assessing the impact of declining pollinators on world agriculture			
16:10-16:30	<b>ESAIAS Wayne</b>	Robert Wolfe, Joanne Nightingale, Jaime Nickeson, Peter Ma	USA	23
	Scale hive network and satellites reveal shifts in nectar flows due to climate and land cover.			
16:30-16:50	<b>Break</b>			
16:50-17:10	<b>BOECKING Otto</b>	Ulrike Kubersky	Germany	24
	Pollination in high bush blueberries and strawberries-who is the best pollinator?			

17:10-17:30	<b>ROUBIK David W.</b>	Rogel Villanueva	USA	25
	The win-win ecology of honeybee introductions			
17:30-17:50	<b>LAMBERT Olivier</b>	Suzanne Bastian, Isabelle Guilberteau, Monique l'Hostis, Hervé Pouliquen	France	26
	Honeybee ( <i>Apis mellifera</i> ), sentinel of environmental pollution: study in Western France			
17:50-18:10	<b>GEMMILL-HERREN Barbara</b>	Colette Linda	Italy	27
	International Measures to Conserve and Sustainably Use Pollinators in Sustainable Agriculture			
18:10-18:30	<b>SCHATZ Bertrand</b>		France	28
	Bee-pollinated orchids in a changing European environment			

**BEE BIOLOGY COMMISSION - SYMPOSIUM N° 1  
"HONEYBEE BIOLOGY"  
WEDNESDAY 16th AFTERNOON**

**EINSTEIN ROOM**

Chair: Karl Crailsheim (Austria)

Time	Authors	Co-authors	Country	Abstracts
14:30-14:50	<b>LE CONTE Yves</b>		France	29
	Pheromones and social regulation in the honeybee			
14:50-15:10	<b>VALLON Julien</b>	Pascal Jourdan, Nicolas Cerrutti	France	30
	Dynamic of bees population: an example in South of France on lavender nectar flow.			
15:10-15:30	<b>GRECO Mark K</b>		Switzerland	31
	Assessing the usefulness of Diagnostic Radioentomology for Population Dynamics studies of managed <i>Apis mellifera</i> colonies			
15:30-15:50	<b>CORNELISSEN Bram</b>	Tjeerd Blacquière, Sjeff van der Steen	Netherlands	32
	Estimating honeybee colony size using digital photography			
15:50-16:10	<b>BENCSEK Martin</b>	Joseph Bencsik, Mathias Millet, Michael Baxter	United Kingdom	33
	Non-invasive monitoring of honeybee hive activity using Principal Component Analysis.			
16:10-16:30	<b>MAURÍCIO FRANCOY Tiago</b>	David W. Roubik, Dieter Wittmann, Lionel Segui Gonçalves	Brazil	34
	Temporal changes in morphogenetic variability of Africanized bees in Panamá after 24 years of Africanization			
16:30-16:50	<b>Break</b>			
16:50-17:10	<b>KENCE Aykut</b>	Rahsan I. Tunca, Sinem Yigiter, Meral Kence	Turkey	35
	Morphometric discrimination of honeybee races and ecotypes in Turkey			
17:10-17:30	<b>BOZIC Janko</b>	Charles I. Abramson	Slovenia	36
	Ethanol disruption of social communication in honeybee colony			
17:30-17:50	<b>DIAO Qingyun</b>	Qiuling Jiang, Tang Fang, Xiwu Gao	China	37
	Tissue and Subcellular Distribution of Carboxylesterase in <i>Apis cerana</i> and <i>Apis mellifera</i> (Hymenoptera: Apidae)			
17:50-18:10	<b>SU Songkun</b>	Xiangqian Guo, Aung Si, Fang Liu, Shenglu Chen, Shaowu Zhan, Runsheng Chen	China	38
	Expression Differences in the Caste Development of Honeybee Using Solexa Sequencing Method			
18:10-18:30	<b>LI Jilian</b>	Wenjun Peng, Jie Wu, Jiandong An, Jiaying Huang, Shudong Luo	China	39
	A scientific note on a cDNA fragment of vitellogenin gene from <i>Bombus hypocrita</i>			

**BEEKEEPING TECHNOLOGY AND QUALITY COMMISSION - SYMPOSIUM 1  
"BEE PRODUCTS AND ANALYSIS"  
WEDNESDAY 16th AFTERNOON**

**BARTHEZ ROOM**

Chair: Stefan Bogdanov (Switzerland) or Etienne Bruneau (Belgium)

Time	Authors	Co-authors	Country	Abstracts
14:30-14:50	<b>MONTENEGRO Gloria</b>		Chile	40
	Differentiation of Chilean endemic honeys in based of botanical origin and biological properties			

14:50-15:10	<b>DANIELE Gaëlle</b>	Hervé Casabianca	France	41
Analysis of French royal jelly for quality and authenticity controls				
15:10-15:30	<b>ZULUAGA-DOMINGUEZ Carlos Mario</b>	Consuelo Díaz-Moreno, Carlos Fuenmayor-Bobadilla, Ariel Cadena-Sanchez	Colombia	42
Advances in classification and differentiation of Colombian honeys by using an electronic nose and a physical-chemical analysis				
15:30-15:50	<b>VOGEL Melanie</b>	Reinhard Michel	Germany	43
Pesticide-analysis in honey by means of LC-MS/MS and GC-MS/MS – Investigation of the most appropriate technique				
15:50-16:10	<b>ALMEIDA-MURADIAN L. B.</b>	Werner Luginbühl, Peter Gallmann, René Badertscher	Brazil	44
Prediction of some physicochemical measurands of honey using FT-IR ATR				
16:10-16:30	<b>KROPF Urška</b>	Jasna Bertoncelj, Mojca Jamnik, Marijan Nečemer, Nives Ogrinc, Terezija Golob	Slovenia	45
Geographical origin of Slovenian multifloral and forest honey				
16:30-16:50	<b>Break</b>			
16:50-17:10	<b>NANDA Vikas</b>	Dr Bahadur singh, Dr. A.S.Bawa, V.K.Kukreja	India	46
Classification of Indian unifloral honey on the basis of physio-chemical characteristics and mineral composition by Pattern recognition methods				
17:10-17:30	<b>HU Fu-Liang</b>	Cui-Ping Zhang, Huo-Qing Zheng	China	47
A Glucosidase Activity in Propolis				
17:30-17:50	<b>WAS Ewa</b>	Helena Rybak-Chmielewska, Teresa Szczésna	Poland	48
Gas chromatography with mass detector technique (GC-MS) used for detection of beeswax adulteration with paraffin				
17:50-18:10	<b>FREYTAG Izabela</b>	Hélène Dailly, Etienne Bruneau, Viviane Planchon	Belgium	49
Markers of linden honey				
18:10-18:30	<b>GONZALEZ-PORTO Amelia V.</b>	León-Ruiz, V, Martín-Arroyo, T.	Spain	50
Honeys of Savory: data for one first estimation for its definition and characterization				

**ROUND TABLE 2 - "INTOXICATION IN BEES DUE TO PESTICIDES: RESULTS FROM SCIENTISTS"  
WEDNESDAY 16 AFTERNOON**

**PASTEUR ROOM**

14:30-18:00	<p><i>Beekeepers, responsables syndicaux bring their testimonials and their et leurs findings from their observations with regards to the intoxication of bees due to pesticides.</i></p> <p><b>Moderator:</b> Janine KIEVITZ, CARI - Belgium</p> <p><b>Speakers</b> (to be confirmed) :</p> <p>Lucas MARTINEZ, President of the Beekeeping Federation in Argentina</p> <p>Francesco PANELLA, President of UNAAPI (Italian Union of Beekeepers) – Italy</p> <p>David MENDES, Professional Beekeepers - USA</p> <p>F. HEICKER, President of the German Beekeeping Union</p> <p>Manuel IZQUIERDO, Head of the COAG beekeeping department (Coordination of Spanish breeders and farming organisations)</p> <p>Sophie DUGUE, Committee Member of the French beekeeping union [Union Nationale de l'Apiculture française]</p> <p>Jean SABENCH, President of the "Pesticides" Commission with the "Confédération Paysanne" [French farmers' union]</p>			
-------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--