

# Program

Mugunghwa Hall

Time	Mugunghwa Hall 2024-02-19 (Mon)	
12:00-13:00	Registration	
13:00-13:30	40th Annual Meeting of Apicultural Society of Korea	
13:30-14:00	Opening Ceremony	
14:00-14:10	Special Talk I: Jung-sook Kim (Ministry of Agriculture, Food and Rural Affairs, Livestock Policy Division, Director General)	
14:10-14:50	Plenary Lecture I. Dr. Jeff Pettis (APIMONDIA President) Beekeeping in a changing world, new pests and more!	
14:50-15:00	Coffee Break	
15:00-15:30	Invited Lecture I. Prof. Huoqing Zheng (Zhejiang University, China) Filling gaps in the understanding of the relationship between <i>Varroa spp.</i> and <i>Apis cerana</i>	
15:30-17:00	Bee Health I.	
	O-1	The influence of <i>Varroa destructor</i> on virus infection of honeybees from the perspective of virome analysis Ruike Wei, Zhejiang University
	O-2	Acaricidal susceptibility of <i>Varroa destructor</i> and <i>Tropilaelaps mercedesae</i> in <i>Apis mellifera</i> colonies Hyunha Oh, Andong National University
	O-3	Acaricidal Activity of major component from <i>Cymbopogon citratus</i> in Combination with Other Monoterpenes, on <i>Varroa destructor</i> and Honey bees Tekalign Begna, Andong National University
	O-4	Development of a Multiplex RT-PCR Diagnostic Method for the Predominant Three Species of Honey Bee Viruses in Uzbekistan So-yoon Jang, Andong National University
	O-5	Development and Application of RT-RPA Based Detection Methods for the Diagnosis of Bee Viruses Man-Cheol Son, Andong National University
	O-6	The role of vaccination in sustainable hive health: a One Health discussion Nigel Swift, Dalan Animal Health, USA
17:00-17:10	Coffee Break	
17:10-17:20	Special Talk II: Yong-Kwon Lee (Forest Resources Division, Deputy Director General / Ph.D)	
17:20-18:00	Plenary Lecture II. Prof. Keon Mook Seong (Chungnam National University) Development of RNAi method to control <i>Varroa destructor</i> : lethal effects of knockdown of coatomer proteins	
18:30-	Conference Dinner	
Time	Mugunghwa Hall 2024-02-20 (Tue)	
09:00-09:30	Invited Lecture III. Norman L Carreck (Carreck Consultancy Ltd.) The COLOSS association and the BEEBOOK project	
09:30-10:10	Bee Health II.	
	O-12	The task forces of the COLOSS association and its missions Victoria Soroker, Agricultural Research Organization, Israel
	O-13	Taxonomic notes on parasitic mites on honeybee in Korea Jaeseok Oh, Seoul National University
	O-14	The larvae of greater wax moth, <i>Galleria mellonella</i> affects the health of adult honeybees Yanling Xie, Zhejiang University, China

10:10–10:20	Coffee Break	
10:20–11:40	Bee Heath II	
	O–15	Potential control of <i>Vespa velutinanigrithorax</i> using sex pheromone Dongueui Hong, Andong National University
	O–16	Phenological and compositional changes of <i>Vespa</i> species from the long term monitoring data in Korea SeongbinBak, Andong National University
	O–17	Effects of imidacloprid on Hypopharyngeal glands and GST isoenzyme profile Fani Hatjina, EllinikosGeorgikosOrganismos 'DIMITRA', Greece
	O–18	Enhancing Honeybee Resilience: Curcumin as an Antidote to Mitigate Carbaryl-Induced Harm and Promote Sustainable Pollination Saeed MohamadzadeNamin, Andong National University
	O–19	Exploring the Impact of Different Carbohydrate Types on Honeybee Longevity and Hypopharyngeal Gland Dimensions ArezoNajarpour, Andong National University
	O–20	Identifying Effects and Markers Related to <i>Apis mellifera ligustica</i> Honey Bee Health Olga Frunze, Incheon National University
11:40–12:00	Poster Presentation (Mugunghwa Hall Lobby)	
12:00–13:30	Lunch	
13:30–14:10	Plenary Lecture III. Victoria Soroker (COLOSS Varroa TF, Israel) The chemosensory machinery of the Varroa mite	
14:10–14:20	Coffee Break	
14:20–16:50	Symposium II. Expanding honey forest and enhancing public service	
	Invited Lecture VI. Angus McPherson (NZ Trees for Bees Research Trust) Designing and Establishing Multi-function Bee Forage Planting to Support Beekeepers and Farmers	
	S–11	Major honey plants in the central region of Korea, evaluated by foraging preferences of honeybees Seunghun Jung, Seoul National University
	S–12	Threats to Honeybee: Investigation of Potential Predators in Apiary Jong-Hwa Oh, Seoul National University
	S–13	Habitat Suitability Assessment of Major Honey Tree Species in Mt. Gariwang and Mt. Yumeong Yong-Ju Lee, Kookmin University
	S–14	Economic valuation of pollination resources in national forests of Mt. Gariwang and Mt. Yumyeong relative to beekeeping Kwanhui Lee, Andong National University
	S–15	Development of evaluation indicators and case application research for the creation of honey plant complex Sora Kim, Korea Forest Conservation Association
	S–16	Proposals for the Expansion of Honey Plant Complexes in Korea Sung-Joon Na, National Institute of Forest Science
	S–17	Effects of Rising Winter Temperatures and Day Length on Spring Flowering Time in Future Warm Climates Sukyung Kim, Seoul National University
	S–18	A report on changes in spring flowering duration of seven Korean tree species over the last 52 years and the potential resultant effect at the community-level Min-Jung Kim, National Institute of Forest Science
17:00–	Closing Ceremony	

# Program

Mokryon Hall

Time	Mokryon Hall 2024-02-19 (Mon)	
15:00-16:10	Bee Product	
	O-7	Evaluating Royal Jelly Quality from Korean Commercial Apiaries and Analyzing the Nutrient Content impact of Honey bee Feed Sampat Ghosh, Andong National University
	O-8	Unveiling Floral Diversity and Nutritional Profiling of Bee Pollens from Uzbekistan Sukjun Sun, Andong National University
	O-9	Characterization of volatile compound detected in drone pupa ( <i>Apis mellifera</i> L.) fat extract Seonmi Kim, National Institute of Agricultural Science
	O-10	The R&D of immunity strengthening functional propolis products by the water-soluble cocktail method Hadong Kim, Seoul Propolis Co., Ltd. R&D Center
	O-11	Pancreatic cancer cell death and blood sugar regulation by propolis and honey mixture Kim Sung-Kuk, National Institute of Agricultural Science
16:10-16:40	Invited LectureII. Dr. BajareeChuttong (Chiang Mai University, Thailand) Guidelines for establishing a quality standard for honey produced by the stingless bee genus <i>Tetragonula</i> in Thailand	
Time	Mokryon Hall 2024-02-20 (Tue)	
09:00-09:30	Invited Lecture IV. Prof. LekhnathKafle (National Pingtung University, Taiwan) Efficacy of probiotic and prebiotic supplements on honeybee productivity and strength	
09:30-10:10	Pollination & Honey Plants	
	O-21	Assessing niche overlap of bees, butterflies, and hoverflies in plant-pollinator networks Ehsan Rahimi, Andong National University
	O-22	Environmental Big Data based Implementation of the Honey Production Environment Grade Map Jea-Chul Kim, AirTech Inc
	O-23	The characteristics of <i>Tilia mandshurica</i> Rupr.&Maxim. as major honey plants and the selection of superior tree Sea Hyun Kim, Sunchon National University / Korea Forest Research Institute
10:10-10:20	Coffee Break	
10:20-11:30	Bee Biology	
	O-24	Stingless Bees Tongue Morphology is Different Compared to Honeybees Sarah Najiah Ramli, Universiti Malaysia Terengganu, Malaysia
	O-25	Morphological Exploration of <i>Apis cerana</i> with different colors in South Korea Hyeonjeong Jang, Andong National University
	O-26	Honeybee genetic resource and national diffusion system in Korea Chang-hoon Lee, National Institute of Agricultural Science, RDA
	O-27	Predictive Modeling of Honeybee Winter Mortality in Response to weather Anomalies : Utilizing 'Honeybee Meteorological Index' Sunghyun Min, National Institute of Agricultural Science
	O-28	Comparison of the expression levels of cytochrome P540 monooxygenases between <i>Apis cerana</i> and <i>Apis mellifera</i> (Hymenoptera: Apidae) in response to various insecticides Youngcheon Lim, Seoul National University

11:30–12:00	Poster Presentation (Mugunghwa Hall Lobby)	
12:00–13:30	Lunch	
13:30–14:20	Coffee Break	
14:20–16:50	Symposium III. Control of infectious diseases in honeybee	
	S-19	Evaluation of efficacy of lactic acid bacteria from Honeybee for American foulbrood and Nosemosis Mi-Sun Yoo, Animal and Plant Quarantine Agency,
	S-20	Prevalence and Trends of Honeybee Diseases in the Republic of Korea Thi-Thu Nguyen, Animal and Plant Quarantine Agency,
	S-21	Diganosis of Honeybee Disease using Point-of-care-testing technique Choi, Ok Ran, Genesystem Co., Ltd.
	S-22	Efficacy of complex plant extracts (Winning bee plus) for varroa mite Sung-Min Lee, CTC VAC
	S-23	Development and Clinical Evaluation of Point of Care qPCR for Notifiable Infectious Diseases of Bee Doo-Sung Cheon, DVM, PhD., POSTBIO Inc
	S-24	Association between Honeybee ( <i>Apis mellifera</i> L.) diseases and CCD in Korea Juhaeng Heo, Korea Apicultural Agriculture Cooperative

Time	Suryon Hall 2024-02-19 (Mon)	
15:00-17:00	Symposium I. The current Status and Future Prospects of Digital (smart) Beekeeping	
	S-1	Controlling <i>vespa velutina</i> nest using drone Su-Bae Kim, National Institute of Agricultural Sciences, RDA
	S-2	<i>Vespa Velutina</i> Nest Detection using Visual Camera Inchan Choi, National Institute of Agricultural Sciences
	S-3	Development of Unmanned Aerial Vehicles-based Wasp Tracking and Habitat Search Technology Bosung Kim, Chonnam National University
	S-4	Vespa detection and monitoring based on deep learning model Cheolhee Lee, Department of Computer Engineering, Andong National University
	S-5	Status and the Prospect of Smart Beekeeping for Sustainable Apiculture Won-ki Chung, Onfarm Corp.
	S-6	Application of engineering technology for honey bee pest management Changyeun Mo, Kangwon National University
	S-7	Current Status and Perspectives of Intelligent Beekeeping Management Device Developments Xiongzhe Han, Kangwon National University
	S-8	Conditions and functions of smart honey bee house for overwintering study Yongrak Kang, Andong National University
	S-9	Utilizing Sensing Technology for Honeybee Colony Monitoring Byoung-Jo Choi, Incheon National University
	S-10	Utilization of ChatGPT in Beekeeping Industry and Apiculture Research Daegun Oh, National Institute of Agricultural Science
Time	Suryon Hall 2024-02-20 (Tue)	
09:00-11:30	Symposium IV. (Honeybee Viruses and Pathogens (with COLOSS Virus TF))	
	Invited Lecture V. Delphine Panziera (Wageningen University & Research) Chronic bee paralysis and winter mortality in the Netherlands	
	S-25	Is commercial trade of queens a way for virus spread? Anne Bonjour-Dalmon, INRAE, Bees and the Environment research department, France
	S-26	Habitat structure and virome examination in newly field-exposed bumble bees Orlando Yañez, University of Bern, Switzerland
	S-27	RNAi as a honeybee virus repressor: case studies and potentials June-Sun Yoon, Jeonbuk National University
	S-28	The chronicle of dsRNA for apiculture: a new agent to control pathogens of the honeybees Woojin Kim, Genolution Inc.
	S-29	Proteomics and immune response differences in <i>Apis mellifera</i> and <i>Apis cerana</i> inoculated by three <i>Nosema ceranae</i> isolates Terd Disayathanoowat, Chiang Mai University, Thailand
	S-30	Unveiling Novel and Unreported Honeybee Viruses in South Korea, 2023: A Fresh Perspective on Beekeeping Epidemiology Minhyeok Kwon, Andong National University
	S-31	Harnessing the Bee Virome: A Novel Tool for Unearthing Unreported and Emerging Plant Viruses Jiho Jeon, Andong National University

11:30–12:00	Poster Presentation	
12:00–13:30	Lunch	
13:30–14:20	Coffee Break	
14:20–16:50	Beekeeping	
	O-29	Conservation of honey bees in Britain and Ireland Norman L Carreck, Carreck Consultancy Ltd., United Kingdom
	O-30	Stingless bee-friendly garden for the sustainability of beehives Norasmah Basari, Universiti Malaysia Terengganu, Malaysia
	O-31	Robotic System Design In Royal Jelly Production Sedat Sevin, Ankara University, Turkiye
	O-32	Responses of the Climate Change impact on <i>Apis cerana</i> beekeeping in Korea Yeonjeong Lee, Andong National University
	O-33	Development of a Separator-Free Gate to Count the Entry and Exit of Bees Si-u Bak, Incheon National University
	O-34	Consideration of Existing Beehive Entry-Exit Counting Systems and the Necessity of a Dedicated Image-Based Algorithm Jinseong Lee, Incheon National University
	O-35	Development of a multi-beekeeping object detection model for Integrated pest management of Beekeeping Hong Gu Lee, Kangwon National University
	O-36	Development of the migratory beekeeping information system by GIS (Geographic Information Systems) Kyeong Yong Lee, The National Academy of Agricultural Science
	O-37	Effects of Clothianidin Pesticide Application on the Strength of Honey Bee Colonies and Stress-Related Genes in the Vicinity of Rice Fields in the Republic of Korea Minwoong Son, National Institute of Agricultural Science