



ISCE



**2024
PRAGUE**

39th Annual Meeting of the International Society of Chemical Ecology

Prague, Czechia
14–18 July 2024

PROGRAMME



**ÚOCHB AV
IOCB PRAGUE**



**Faculty of Forestry
and Wood Sciences**



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WELCOME MESSAGE

**Dear friends of chemical ecology,
Welcome to the 39th Annual Meeting of ISCE!**

It is the second time for Prague to host the ISCE meeting (1996 + 2024) and we would like to pay tribute to this legacy by adopting the motto for the ISCE2024 meeting: **‘Chemical Ecology Returns to Prague’**. The meeting covers a wide range of chemical ecology topics in diverse life forms spanning from microorganisms to humans and offers more than 50 hours of regular talks organized in 21 symposia running in three parallel sessions, 6 plenary lectures, and two poster sessions. During the traditional Wednesday free afternoon, attendees can select from various excursions to Prague’s city center, historical castles around Prague, or the famous Pilsner brewery. After the meeting, a field trip to Czech forests affected by recent bark beetle outbreaks will be organized.

We are happy to see that nearly one third of more than 300 presenting authors are students. Let’s hope that they will be motivated by this meeting to continue their careers as chemical ecologists! Finally, we hope you all will enjoy both the scientific and social programme of the meeting, get together with your friends and colleagues, while finding time to visit the beautiful city of Prague.

We are grateful to all of you who participated at ISCE2024 organization, especially the Scientific committee members, the chairs of the 21 symposia, the organizing company GUARANT International, and, last but not least, to the ISCE leadership. It is only thanks to your help that this meeting can take place! Big Thank you also goes to the sponsors of ISCE and of ISCE2024!

Anna, Robert & Pavlína

Anna Jirošová

Czech University of Life Sciences (CZU)

Robert Hanus

*Institute of Organic Chemistry and Biochemistry
(IOCB Prague)*

Pavlína Kyjaková

*Institute of Organic Chemistry and Biochemistry
(IOCB Prague)*

COMMITTEES

Organizing Committee

Robert Hanus

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Anna Jirošová

CZU, Prague, Czechia

Pavína Kyjaková

IOCB Prague, Czechia

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Robert Raguso

Cornell University, USA

Junji Takabayashi

Kyoto University, Japan

Ted Turlings

University of Neuchâtel, Switzerland

Nicole Van Dam

Leibniz IGZ, Germany

PROGRAMME OVERVIEW

Sunday 14 July 2024			
16:00	Plenary lecture hall		
16:15			
16:30			
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17:15			
17:30			
17:45		Room 125	
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19:30	Plenary lecture hall		
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20:45			

Monday 15 July 2024			
08:30	Plenary lecture hall		
08:45	Opening ceremony (08:30–09:00)		
09:00	Plenary lecture hall		
09:15	Plenary lecture (09:00–09:50)		
09:30	Jonathan Gershenzon		
09:45	The other half of the story: How insects circumvent plant chemical defenses		
10:00	Coffee break (10:00–10:25)		
10:15	Room Z1	Room Z2	Hi-tech hall
10:45	S7 (10:25–12:15)	S8 (part I) (10:25–12:15)	S16 (part I) (10:25–12:15)
11:00	Influence of man-made stressors on the chemical communication of insects	Biochemistry and evolution of specialized metabolites in chemical interactions	Chemical and molecular ecology of multitrophic interactions
11:15			
11:30			
11:45			
12:00			
12:15	Lunch (12:15–13:30)		
12:30			
12:45			
13:00			
13:15	Plenary lecture hall		
13:30	Plenary lecture (13:30–14:20)		
13:45	Walter S. Leal		
14:00	Jerry Meinwald: Food, Family, Flute, and Pheromones		
14:15	Room Z1	Room Z2	Hi-tech hall
14:30	S17 (14:25–16:15)	S8 (part II) (14:30–16:00)	S16 (part II) (14:30–16:15)
14:45	Open symposium	Biochemistry and evolution of specialized metabolites in chemical interactions	Chemical and molecular ecology of multitrophic interactions
15:00			
15:15			
15:30			
15:45			
16:00			
16:15	Coffee break (16:15–16:40)		
16:30	Room Z1	Room Z2	Hi-tech hall
16:45	S6 (16:40–19:00)	S10 (16:40–19:30)	S20 (16:40–19:15)
17:00	Chemical ecology of symbiotic interactions	Chemical ecology and its role in social organization in social insects	Synthetic lures for insect pest management
17:15			
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19:15			
19:30	Poster area		
19:45	Poster Session I – odd-numbered posters (19:30–20:30)		
20:00			
20:15			

Tuesday 16 July 2024			
09:00	Plenary lecture hall		
09:15	Plenary lecture (09:00–09:50)		
09:30	Astrid Groot		
09:45	Discovering the sex life of moths as driving force for inspiring collaborations		
10:00	Coffee break (10:00–10:25)		
10:15	Room Z1	Room Z2	Hi-tech hall
10:30	S19 (10:25–12:00) Marine chemical ecology	S9 (10:25–12:15) Synthesis as a key technology in chemical ecology	S16 (part III) (10:30–12:00) Chemical and molecular ecology of multitrophic interactions
10:45			
11:00			
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12:15			
12:30	Lunch (12:15–13:30)		
12:45			
13:00			
13:15			
13:30	Plenary lecture hall		
13:45	Plenary lecture (13:30–14:20)		
14:00	Sandra Steiger		
14:15	Scent-sitive families: Unraveling the complexity of interactions among family members		
14:30	Room Z1	Room Z2	Hi-tech hall
14:45	S1 (part I) (14:25–16:15) Insect host-choice: Placing chemosensory genes in an ecological and evolutionary context	S4 (part I) (14:25–16:15) Chemical ecology of forest insects	S13 (part I) (14:25–16:15) Plant chemodiversity and its evolutionary driving forces
15:00			
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16:15			
16:30	Coffee break (16:15–16:45)		
16:45	Room Z1	Room Z2	Hi-tech hall
17:00	S1 (part II) (16:45–18:00) Insect host-choice: Placing chemosensory genes in an ecological and evolutionary context	S4 (part II) (16:45–18:45) Chemical ecology of forest insects	S13 (part II) (16:45–18:30) Plant chemodiversity and its evolutionary driving forces
17:15			
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19:00			
19:15	Poster area		
19:30			Room 125
19:45			J Chem Ecol Editorial Board Meeting (19:30–20:30)
20:00	Poster Session II – even-numbered posters (19:15–20:45)		
20:15			
20:30			

Wednesday 17 July 2024			
09:00	Plenary lecture hall		
09:15	Plenary lecture (09:00–09:50)		
09:30	Etya Amsalem		
09:45	Sterility-inducing mechanisms in social insects		
10:00	Coffee break (10:00–10:25)		
10:15			
10:30	Room Z1	Room Z2	Hi-tech hall
10:45			S2
11:00			(10:25–11:45)
11:15			Deciphering olfactory communication in humans
11:30	S14	S5	
11:45	(10:25–12:30)	(10:25–12:15)	
12:00	Chemosensory system in Acarines and other non-insect arthropods	Beyond eusocial animals: chemical ecology of group living and subsocial species	
12:15			S21 (12:00–12:30)
12:30			E-NICHE Young Researcher Award Symposium
12:30	Plenary lecture hall		
12:45	Business meeting (12:30–13:30)		
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18:00	Lunch + free afternoon		
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Thursday 18 July 2024		
09:00	Plenary lecture hall	
09:15	Plenary lecture (09:00–09:50)	
09:30	Miklós Tóth	
09:45	A voyage in search of King Solomon's ring	
10:00	Coffee break (10:00–10:25)	
10:15		
10:30	Room Z1	Room Z2
10:45		
11:00	S11 (part I) (10:25–12:15)	S3 (part I) (10:25–12:15)
11:15	Plant-plant communication in both	Ecometabolomics: Unveiling
11:30	above- and below-ground environments	the molecular landscape from discovery
11:45		to ecosystem functioning
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13:45	Room Z1	Room Z2
14:00	S11 (part II) (13:30–14:45)	S3 (part II) (13:30–14:15)
14:15	Plant-plant communication in both	Ecometabolomics
14:30	above- and below-ground environments	
14:45	Minibreak (14:45–14:55)	
15:00	Room Z1	Room Z2
15:15		
15:30	S15 (part I) (14:55–16:15)	S12 (part I) (14:55–16:15)
15:45	Chemical ecology in the Anthropocene	Chemical ecology of insect
16:00		vector-plant interactions
16:15		
16:30		
16:45	Room Z1	Room Z2
17:00	S15 (part II) (16:45–18:00)	S12 (part II) (16:45–17:45)
17:15	Chemical ecology in the Anthropocene	Chemical ecology of insect
17:30		vector-plant interactions
17:45		
18:00	Plenary lecture hall	
18:15	Student Awards + Closing Ceremony (18:00–18:30)	
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20:30	Klub Lávká (Novotného lávká 201/1, 110 00 Prague 1 - Old Town)	
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Farewell Cocktail Party
(20:30–24:00)

Friday 19 July 2024

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**Field trip
(09:00–19:00)**

DETAILED PROGRAMME

SUNDAY 14 JULY 2024

16:00–21:00 Registration Plenary lecture hall

16:45–19:00 ISCE Executive Committee Room 125

19:00–21:00 Welcome drink Plenary lecture hall

MONDAY 15 JULY 2024

08:30–09:00 Opening ceremony Plenary lecture hall

09:00–09:50 Plenary lecture Plenary lecture hall
**Jonathan Gershenzon: The other half of the story:
How insects circumvent plant chemical defenses**

10:00–10:25 Coffee break

10:25–12:15 **S7: Influence of man-made stressors
on the chemical communication of insects** Room Z1
Chairs: Manfred Ayasse, Samuel Boff

10:25–10:45 **Magali Proffit:** Impact of air pollution on plant-pollinator chemical communication: Main effects and future perspectives

10:45–11:00 **Louna Rizzi (student):** Effect of cultural practices on companion plant VOC emissions and the impact on their antibiosis and antixenosis effect on aphid

11:00–11:15 **Ilka Vosteen:** The smell of drought: Water limitation alters plant volatile emission and parasitoid attraction to herbivore-infested plants

11:15–11:30 **Monica Barman:** Impacts of drought stress on the chemical communication between Styrian oil pumpkin and bumblebee pollinators

11:30–11:45 **Manfred Ayasse:** Effect of land-use associated stressors on bumblebee health and cuticular hydrocarbons

11:45–12:00 **Margarita Orlova:** They poisoned our relationship: toxicants and nutritional stress disrupt queen-worker communication in the honey bee

12:00–12:15 **Samuel Boff:** Impact of man-made stressors on sex communication of wild solitary bees

- 10:25–12:15** **S8 (part I): Biochemistry and evolution of specialized metabolites in chemical interactions** **Room Z2**
Chair: Dorothea Tholl
- 10:25–10:45 **Dietrich Ober:** Pyrrolizidine alkaloids – a model for pathway evolution and insect counter adaptations
- 10:45–11:00 **Sara Leite Dias (student):** Biosynthesis of the allelopathic alkaloid gramine in barley by a cryptic oxidative rearrangement
- 11:00–11:15 **Thomas Arnold:** Epigenetic weapons in plant-herbivore interactions: Sulforaphane disrupts histone deacetylases, gene expression, and larval development in *Spodoptera exigua* (but not *Trichoplusia ni*)
- 11:15–11:30 **Zdenek Kamenik:** CluSeek: A bioinformatics tool for discovering novel gene clusters in GenBank
- 11:30–11:45 **Stephan von Reuss:** Very long chain alkyl ascarosides as biosynthetic intermediates in *C. elegans'* ascaroside biosynthesis
- 11:45–12:00 **Christer Löfstedt:** Sex pheromone biosynthesis in the oriental fruit moth *Grapholita molesta* involves unique $\Delta 8$ desaturation
- 12:00–12:15 **Stanislav Machacek (student):** The predictive power of AlphaFold-generated protein structures of insect fatty acyl desaturases
- 10:25–12:15** **S16 (part I): Chemical and molecular ecology of multitrophic interactions** **Hi-tech hall**
Chairs: Ricardo A. R. Machado, Christelle A. M. Robert
- 10:25–10:45 **Ricardo Machado:** Ecology and evolution of bacterial bioluminescence in belowground ecosystems
- 10:45–11:00 **Nina Fatouros:** Induction of leaf necrosis by molecules of butterfly egg-associated secretions
- 11:00–11:15 **Laurie Magnin (student):** Is oilseed rape specific glucosinolates content a key cue for larval infestation of *Psylliodes chrysocephala* in field conditions?
- 11:15–11:30 **Léa Bolis (student):** Impact of faba bean on oilseed rape glucosinolates profile and cabbage stem flea beetle foraging behavior
- 11:30–11:45 **James Sims:** Wound excretions in *Solanum atropurpureum*: a multifaceted defense against *Manduca sexta* herbivory
- 11:45–12:00 **Thomas Giguere (student):** Contradictory effect of foliar extracts of a wild Brassicaceae species on the feeding behavior of *Psylliodes chrysocephala* larvae and adults
- 12:00–12:15 **Jessil Ann Pajar (student):** Dual nematode infection in *Brassica nigra* affects shoot metabolome and aphid survival in distinct contrast to single-species infection
- 12:15–13:30** Lunch
- 13:30–14:20** **Plenary lecture** **Plenary lecture hall**
Walter S. Leal: Jerry Meinwald: Food, Family, Flute, and Pheromones

- 14:25–16:15** **S17: Open symposium** **Room Z1**
Chair: Monica Barman
- 14:25–14:45 **David Heckel:** Caterpillars coping with chlorophyll
- 14:45–15:00 **Sabine Hänniger:** Buzzing after hours: Investigating fall armyworm's mating mysteries
- 15:00–15:15 **Carmen Rossini:** Chemical and ecological factors mediating tomato resistance to *Tuta absoluta*: Insights from Uruguayan varieties and wild species
- 15:15–15:30 **Kye Chung Park:** Olfactory and visual communication systems of the non-native winter crane fly, *Trichocera maculipennis*, colonizing Antarctic research stations on King George Island
- 15:30–15:45 **Renée van Schaijk (student):** Uncovering regional variation in sexual communication in the invasive pest species *Spodoptera frugiperda* in Africa
- 15:45–16:00 **Aditi Mishra (student):** Adaptive innate preferences of solitary generalists and its flexibility
- 16:00–16:15 **Anne-Geneviève Bagnères:** Differentiation of chemical profiles in a complex of hybrid butterfly species
- 14:30–16:00** **S8 (part II): Biochemistry and evolution of specialized metabolites in chemical interactions** **Room Z2**
Chair: Dorothea Tholl
- 14:30–14:45 **Michal Tupec:** Novel type of $\Delta 5$ desaturases biosynthesizing eicosanoid precursors in termites
- 14:45–15:00 **Tomáš Pluskal:** Highly accurate discovery of terpene synthases powered by machine learning reveals functional terpene cyclization in Archaea
- 15:00–15:15 **Natalie Grayson (student):** Unlocking animal specialized metabolite biosynthesis: The case of an octocoral briarane diterpene gene cluster family
- 15:15–15:30 **Jitka Štáfková:** Evolutionary origin of terpenoid biosynthesis in termites
- 15:30–15:45 **Kathy Darragh:** A novel terpene synthase underlying anti-aphrodisiac pheromone production in *Heliconius* butterflies
- 15:45–16:00 **Charles Ducker:** Terpene biosynthesis in the sandfly *Lutzomyia longipalpis*

- 14:30–16:15** **S16 (part II): Chemical and molecular ecology of multitrophic interactions** **Hi-tech hall**
Chairs: Ricardo A. R. Machado, Christelle A. M. Robert
- 14:30–14:45 **Carla Marques Arce:** The polyvalent sequestration ability of an economically important beetle
- 14:45–15:00 **Jacobus de Roode:** Reinterpreting the use of anti-predator chemicals as parasite protection in aposematic monarch butterflies
- 15:00–15:15 **John Sloggett:** Sequestration of prey chemicals for defence by ladybird beetles (Coleoptera: Coccinellidae)
- 15:15–15:30 **Emily Burdfield-Steel:** Honest signalling? Testing the relationship between chemical and visual components of antipredator defence
- 15:30–15:45 **Ali Karimi:** Volatile organic compound patterns emitted by *Halyomorpha halys*, and herbivory interact to alter volatile emissions in plant hosts
- 15:45–16:00 **Mateus Sanches (student):** Herbivore-induced plant volatiles of maize: signaling previous host plant colonization by *Dalbulus maidis* and *Spodoptera frugiperda*
- 16:00–16:15 **Enggel Carmo (student):** Tritrophic interactions modulated by herbivore-induced coffee plant volatiles under single and multiple herbivory by phloem-feeding insects
- 16:15–16:40** **Coffee break**
- 16:40–19:00** **S6: Chemical ecology of symbiotic interactions** **Room Z1**
Chair: Martin Kaltenpoth
- 16:40–17:00 **Nils Rådecker:** Resource competition regulates the cnidarian-algal symbiosis
- 17:00–17:15 **Ingrid Richter:** Toxin-producing endosymbionts protect soil fungi from micropredators
- 17:15–17:30 **Clare Casteel:** The potyviral protein 6K2 from turnip mosaic virus increases plant resilience to drought
- 17:30–17:45 **Harikumar R. Suma (student):** Bacteria vs amoebae — the battle of the microbes
- 17:45–18:00 **Antonino Cusumano:** Beneficial soil microbes enhance indirect plant defenses induced by insect egg deposition
- 18:00–18:15 **Alina Nick (student):** Symbiont interactions and chemical mediators in a defensive symbiosis
- 18:15–18:30 **Cristina Crava:** Impact of 8-HQA in the number and diversity of orally secreted bacteria in *Spodoptera exigua* and its interaction with plant defences
- 18:30–18:45 **Guillermo Reherrmann:** Agro-ecological implications of fly-yeast associations
- 18:45–19:00 **Alberto Prado:** Fungal alkaloids mediate defense against bruchid beetles in field populations of an arboreal *Ipomoea*

- 16:40–19:30** **S10: Chemical ecology and its role in social organization in social insects** **Room Z2**
Chairs: Abdullahi Yusuf, Christian Pirk
- 16:40–17:00 **Robert Hanus:** Origin of the queen pheromone in the termite *Embiratermes neotenicus*
- 17:00–17:15 **Mélissa Haouzi:** A complex alarm system: heterogeneity and dynamics of the venom gland composition in the invasive hornet *Vespa velutina nigrithorax*
- 17:15–17:30 **Sarah Spence (student):** The two-way street to eusociality: larval hunger signals shape sociality and sociality shapes brood care in primitively-eusocial bumble bees
- 17:30–17:45 **Carmel Herold Lozover (student):** The secret life of little fire ants
- 17:45–18:00 **Abraham Hefetz:** Functional evolution of cuticular hydrocarbons in social insects
- 18:00–18:15 **Margarita Orlova:** The empress's new clothes: Similar shifts in queen cuticular profiles occur across different bumblebee species
- 18:15–18:30 **Michaela Hoenigsberger:** Pathogen detection in ant colonies
- 18:30–18:45 **Shinnosuke Mori:** Why do bumblebees prefer flowers of male-fertile cultivars?: Examining the pollen macronutrient factor protein/lipid ratio as a determinant of bee-visitation rate in male-fertile/sterile systems
- 18:45–19:00 **Nathan Derstine:** The chemical evolution of Dufour's gland reproductive signals across bees
- 19:00–19:15 **Abdullahi Yusuf:** How the Western honey bee *Apis mellifera* supply their larvae with essential sterols
- 19:15–19:30 **Maryse Vanderplanck:** Impact of ozone pollution on the learning and memory of bumblebees

16:40–19:15 S20: Synthetic lures for insect pest management Hi-tech hall*Chairs: J. Paul Cunningham, R. Andrew Hayes*

- 16:40–17:00 **Ann Ray:** Comparing the effect of host and lure on capture of spotted lanternfly (*Lycorma delicatula*) in circle traps
- 17:00–17:15 **Michael Fraser:** Investigating the release rates of different controlled release devices containing blends of 10 pheromones for non-specific monitoring of invasive and destructive beetles
- 17:15–17:30 **Johann Fournil:** Biological flowable beneficials attractant to fight aphids
- 17:30–17:45 **Most Mottakina Akter (student):** Live fast, die young: Zingerone (ZN) ingestion in *Bactrocera jarvisi* males
- 17:45–18:00 **Vincent Jacob:** Age-dependent epicuticular chemistry and its chemoreception in the melon fly, *Zeugodacus cucurbitae*, revealed a synthetic attractant for females
- 18:00–18:15 **Júlia Katalin Jósvai:** Change of the chemical profile of the semisynthetic “bisexual” lures by time
- 18:15–18:30 **Jacqueline Serrano:** Development of pheromone-based tools for wireworm management in the United States
- 18:30–18:45 **Yooichi Kainoh:** Response of a parasitoid wasp, *Ascogaster reticulata* to host sex pheromones
- 18:45–19:00 **Eraldo Lima:** Virgin males of *Tuta absoluta* prefer synthetic pheromones, while virgin females attract more mated males: Implications for mass trapping efficacy
- 19:00–19:15 **R. Andrew Hayes:** Refinement of a lure for cucumber fly, *Zeugodacus cucumis*

19:30–20:45 Poster session I – odd-numbered posters Poster area

TUESDAY 16 JULY 2024

- 09:00–09:50** **Plenary lecture** **Plenary lecture hall**
Astrid Groot: Discovering the sex life of moths as driving force for inspiring collaborations
- 10:00–10:25** Coffee break
- 10:25–12:00** **S19: Marine chemical ecology** **Room Z1**
Chairs: Jörg Hardege, Christina Roggatz
- 10:25–10:45** **Conxita Avila:** Chemical ecology in the Antarctic marine benthos: The challenges of human pressures and natural hazards
- 10:45–11:00** **Ana Rato (student):** How the carpet shell clam (*Ruditapes decussatus*) responds to amino acids, predators, and conspecific and heterospecific bivalve cues: electrophysiological responses of the osphradium
- 11:00–11:15** **Takefumi Yorisue:** Conspecific chemical and visual cues/signals that attract coastal barnacle larvae
- 11:15–11:30** **Gemma Liàcer Camarasa (student):** Exploring the metabolomic response of marine sponge *Aplysina aerophoba* Nardo 1843 to global change: Insights from PARAFAC HPLC-DAD analysis
- 11:30–11:45** **Maëlle Zonnequin (student):** Deciphering the molecular functions of brown algal CYP enzymes in defense signaling through metabolomics and functional genomics
- 11:45–12:00** **Eurydice Peti-Jean (student):** Metabolomics and functional genomics of halogenation mechanisms in brown algae
- 10:25–12:15** **S9: Synthesis as a key technology in chemical ecology** **Room Z2**
Chair: Stefan Schulz
- 10:25–10:45** **Jeroen S. Dickschat:** The mysterious case of sodorifen
- 10:45–11:00** **Robert Setter:** The fate of custom chemical synthesis of pheromones in academia is intertwined with commercial enterprise
- 11:00–11:15** **Paulo Zarbin:** Identification and synthesis of macrolides from *Anagasta kuehniella* (Lepidoptera, Pyralidae) frass, attractive to the ectoparasitoid *Habrobracon hebetor* (Hymenoptera, Braconidae)
- 11:15–11:30** **Jan Bergmann:** Identification and synthesis of a male-specific compound from *Leucoptera sinuella* (Lepidoptera: Lyonetiidae) and study of its role in intraspecific communication
- 11:30–11:45** **Anton Möllerke (student):** Benzooxathiols and aryl methyl sulfides: New compound classes in the chemical weapon arsenal of *Collembola*
- 11:45–12:00** **Stephan von Reuss:** Total synthesis of oligomeric ascarosides from the hermaphroditic nematode *Caenorhabditis tropicalis*
- 12:00–12:15** **Karl Gademann:** Mapping out potential roles of natural products driven by synthetic chemistry

- 10:30–12:00** **S16 (part III): Chemical and molecular ecology of multitrophic interactions** **Hi-tech hall**
Chairs: Ricardo A. R. Machado, Christelle A. M. Robert
- 10:30–10:45 **Radhika Venkatesan:** Role of odors in modulating host selection behavior of parasitoid wasps
- 10:45–11:00 **Diana la Forgia:** Odour hunters: Deciphering the impact of egg-emitted VOCs on host recognition in *Trissolcus basalidis* and *T. japonicus* (Hymenoptera: Scelionidae)
- 11:00–11:15 **Liana Greenberg (student):** Variation in the post-mating odors of *Pieris napi* butterflies is associated with variation in natural selection by eavesdropping egg parasitoids
- 11:15–11:30 **Camilo Rivera (student):** Root volatiles and effects of rhizobium-bean symbiosis on the preference and performance of a root herbivore
- 11:30–11:45 **Carlos Bustos-Segura:** Direct and indirect effects of rhizobia-bean symbiosis on higher trophic levels
- 11:45–12:00 **Laure Weisskopf:** Chemical communication in the plant microbiota and its impact on plant health
- 12:15–13:30** **Lunch**
- 13:30–14:20** **Plenary lecture** **Plenary lecture hall**
Sandra Steiger: Scent-sitive families: Unraveling the complexity of interactions among family members
- 14:25–16:15** **S1 (part I): Insect host-choice: Placing chemosensory genes in an ecological and evolutionary context** **Room Z1**
Chairs: Sonja Bisch-Knaden, Alexander Haverkamp
- 14:25–14:45 **Dan-Dan Zhang:** Attraction and aversion of noctuid moths to fermented food sources mediated by distinct olfactory receptors
- 14:45–15:00 **Michele Marconcini:** Identification of novel toxin resistance genes in *Drosophila* via Experimental Evolution, GWAS, and CRISPR screening
- 15:00–15:15 **Kyle Paddock:** Life-stage dependent behavior mimics chemosensory repertoire diversity in a belowground, specialist herbivore
- 15:15–15:30 **Qi Wang:** The ecological significance of odorant receptors in *Pieris brassicae*
- 15:30–15:45 **Arthur de Fouchier:** Searching for honey bee odorant receptors tuned to floral scents: opening the way to an understanding of how bees' olfactory system adapted to find floral resources
- 15:45–16:00 **Martin N. Andersson:** Functional evolution of pheromone receptors in bark beetles
- 16:00–16:15 **Nicolas Montagné:** Evolution of receptors for plant odours and pheromones in phytophagous insects

- 14:25–16:15** **S4 (part I): Chemical ecology of forest insects** **Room Z2**
Chair: Quentin Guignard
- 14:25–14:45 **Sigrid Netherer:** (Why) do spruce bark beetles prefer drought stressed trees?
- 14:45–15:00 **Somia Afzal (student):** Towards push-pull control of an invasive bark beetle, *Ips grandicollis*, using non-host volatiles and semiochemicals from sympatric species
- 15:00–15:15 **Tobias Frühbrodt (student):** The potential of verbenone to complement the integrated management of *Ips typographus* in Central Europe
- 15:15–15:30 **Antonioni Moliterno (student):** Does beetle size influence olfactory selection of suitable host trees? The effect of beetle size on trap catches and electroantennographic (EAG) response to 1,8-cineole and (+)-isopinocampone in female *Ips typographus*
- 15:30–15:45 **Petr Doležal:** Options in the use of synthetic baits against the Central European pine bark beetles
- 15:45–16:00 **Dineshkumar Kandasamy:** Styrene mediates interactions among spruce bark beetle, fungus and host tree
- 16:00–16:15 **Monika Hilker:** Trees respond to insect eggs on their leaves by improved defense against larvae
- 14:25–16:15** **S13 (part I): Plant chemodiversity and its evolutionary driving forces** **Hi-tech hall**
Chairs: Shuqing Xu, Gabriela Anjos De Stefano Escalante, Omer Nevo, Linh M. N. Nguyen
- 14:25–14:45 **Emmanuel Gaquerel:** Allopolyploidy-mediated chemodiversity enhancement and innovation of gain-of-function defenses in a plant-insect arms race
- 14:45–15:00 **Marc Gibernau:** Floral scent diversity is related to the diversification of cyclocephaline beetle – angiosperm pollination interactions
- 15:00–15:15 **Robert Raguso:** Flavor over fragrance? Gustation guides pollinators along a chemical roadmap to floral nectar
- 15:15–15:30 **Valentin Vrecko (student):** An overlooked syndrome of deceptive pollination: Mimicry of food sources for attracting females of anautogenous flies
- 15:30–15:45 **Meret Huber:** Natural rubber reduces herbivory and alters the microbiome below ground
- 15:45–16:00 **Lente van Zyl (student):** Increased secondary defense metabolite production by *Pinus* spp. is linked to greater susceptibility to pitch canker disease
- 16:00–16:15 **Linh Nguyen (student):** Fruit scent evolution in plant-seed disperser interaction
- 16:15–16:45** **Coffee break**

16:45–18:00 S1 (part II): Insect host-choice: Placing chemosensory genes in an ecological and evolutionary context Room Z1*Chairs: Sonja Bisch-Knaden, Alexander Haverkamp*

- 16:45–17:00 **Katsuhisa Ozaki:** A gustatory receptor gene involved in host selection of Swallowtail butterflies
- 17:00–17:15 **Flávia Franco:** Identification and characterization of *Diatraea saccharalis* odorant receptor involved in the plant-insect-fungus interaction
- 17:15–17:30 **Ana Carrión Moreno (student):** Exploring the *Spodoptera exigua* caterpillar olfactory system
- 17:30–17:45 **Takuya Uehara:** Exploring gustatory genes involved in the herbivory in zoophytophagous stinkbug, *Nesidiocoris tenuis*
- 17:45–18:00 **Jothi Kumar Yuvaraj:** Deciphering the function of the most highly expressed odorant receptor in *Ips typhographus*

16:45–18:45 S4 (part II): Chemical ecology of forest insects Room Z2*Chair: Quentin Guignard*

- 16:45–17:00 **Almuth Hammerbacher:** First line of defense: Eucalyptus leaf waxes influence insect feeding and infection by fungal pathogens
- 17:00–17:15 **Johannes Joubert (student):** The effects of defoliation and egg deposition by the *Eucalyptus* snout beetle, *Gonipterus sp. n. 2* on the chemistry and gene expression of *Eucalyptus* leaves
- 17:15–17:30 **Min-Soo Choi (student):** Behavioral modulation of host plant provides saprophagous feeding opportunities to herbivorous longhorn beetle larva
- 17:30–17:45 **Andrés González:** Aggregation pheromone of *Cyrtogenius luteus*: An invasive bark beetle species damaging pine plantations in South America
- 17:45–18:00 **Matic Gabor (student):** Chemical ecology of Capricorn beetles (Cerambycidae: *Cerambyx*)
- 18:00–18:15 **Zoltán Imrei:** The chemical communication of *Plagionotus* longhorn beetles (Cerambycidae) and possible practical applications
- 18:15–18:30 **Alenka Žunič Kosi:** Enhancing conservation strategies for endangered saproxylic beetles using pheromone-based tools
- 18:30–18:45 **Jozsef Vuts:** Chemical ecology of acute oak decline

16:45–18:30	S13 (part II): Plant chemodiversity and its evolutionary driving forces <i>Chairs: Shuqing Xu, Gabriela Anjos De Stefano Escaliente, Omer Nevo, Linh M. N. Nguyen</i>	Hi-tech hall
16:45–17:00	Nicole van Dam: Do frequency dependent selection processes contribute to the maintenance of steroidal glycoside chemodiversity in <i>Solanum dulcamara</i> ?	
17:00–17:15	Sofian Alexandre Renault (student): How does hybridization affects chemical profiles and performance against biotic and abiotic factors in willows?	
17:15–17:30	Bao-Hua Song: Plant chemical defence to soybean cyst nematodes in wild soybean (<i>Glycine soja</i>)	
17:30–17:45	Shuqing Xu: Real-time evolution of plant chemical defenses in natural communities	
17:45–18:00	Gabriela Anjos De Stefano Escaliente (student): Volatile responses to branch-localized induction of <i>Quercus petraea</i> in relation to neighboring tree diversity	
18:00–18:15	Priscila Mezzomo (student): Variation in induced volatile and non-volatile metabolites: Do willow species share responses to herbivory?	
18:15–18:30	Björn Bohman: Carrot seed crops and honey bee pollinators – a chemistry conundrum	
19:15–20:45	Poster session II – even-numbered posters	Poster area
19:30–20:30	J Chem Ecol Editorial Board Meeting	Room 125

WEDNESDAY 17 JULY 2024

- 09:00–09:50** **Plenary lecture** **Plenary lecture hall**
Etya Amsalem: Sterility-inducing mechanisms in social insects
- 10:00–10:25** **Coffee break**
- 10:25–12:30** **S14: Chemosensory system in Acarines and other non-insect arthropods** **Room Z1**
Chairs: Nicoletta Faraone, Kirk N. Hillier
- 10:25–10:45** **Lise Roy:** Chemosensory systems in small arachnids: State of the art, knowledge gaps and challenges in mesostigmatic mites
- 10:45–11:00** **Nicoletta Faraone:** Effect of repellent exposure on attractant detection in infected and non-infected *Ixodes scapularis* (Say) (Arachnida: Ixodidae) ticks
- 11:00–11:15** **Claire Gooding (student):** Blacklegged ticks reduce predation risk by eavesdropping on communication signals of ants
- 11:15–11:30** **Kirk N. Hillier:** Olfactory acid detection in acarines
- 11:30–11:45** **Katerina Karamanoli:** Changes in leaf volatile emissions, profile of primary metabolites, and leaf damage of tomato plants after infestation by *Tetranychus urticae* and *Tetranychus evansi*
- 11:45–12:00** **Andreas Fischer:** Aging virgin females of the false widow spider (*Steatoda grossa*) engage in dishonest pheromone signaling
- 12:00–12:15** **Stefan Schulz:** Epicuticular chemistry – differences and similarities between insects, spiders, and springtails
- 12:15–12:30** **Matthäus Slonka (student):** Sesquiterpene volatiles from *Trichoderma virens* repel the fungivorous Collembola *Folsomia candida*

- 10:25–12:15** **S5: Beyond eusocial animals: chemical ecology of group living and subsocial species** **Room Z2**
Chair: Sandra Steiger
- 10:25–10:45 **Stephen Trumbo:** Carrion volatiles – ecological succession and temperature-dependent competition among burying beetles
- 10:45–11:00 **Eric Grubmüller (student):** Guardians of the grave: Microbial management in burying beetles and its implications for carrion preservation and rival avoidance
- 11:00–11:15 **Jacqueline Sahn:** Scent-sational drama: Larval chemical signals and their effect on maternal behavior
- 11:15–11:30 **Martin Kaltenpoth:** The chemistry of reciprocal protection in an animal-microbe symbiosis
- 11:30–11:45 **Johannes Stökl:** Impact of host species on cuticular hydrocarbon profiles in the parasitoid wasp *Leptopilina victorae*: Implications for sexual communication
- 11:45–12:00 **Tamara Pokorny:** Consequences of intraspecific mate recognition signal variability
- 12:00–12:15 **Priska Flury (student):** Leaf-damaging behavior is widespread among queens and workers of different bumblebee species
- 10:25–11:45** **S2: Deciphering olfactory communication in humans** **Hi-tech hall**
Chair: Ilona Croy
- 10:25–10:45 **Ilona Croy:** Olfactory reference syndrome – initial investigations into a new diagnosis
- 10:45–11:00 **Thomas Hummel:** How does the human sense of smell compare to other mammals? And what can we learn about human olfactory function from people with smell loss?
- 11:00–11:15 **Antonie Louise Bierling (student):** State-dependent variation of human body odors: From molecular changes to perception
- 11:15–11:30 **Helene Loos:** Combined sensory and instrumental approaches to investigate the chemical basis of olfactory communication
- 11:30–11:45 **Natan Horáček (student):** Chemistry of human body odor: Individuality vs. conserved signatures of psychophysiological states
- 12:00–12:30** **S21: E-NICHE Young Researcher Award Symposium** **Hi-tech hall**
Chair: Anne-Geneviève Bagnères
- 12:00–12:15 **Radenka Kolarov (student):** Bioactive potential of *Ailanthus altissima* bark extract: A promising ecofriendly approach for pest control in stored grains
- 12:15–12:30 **Kaia Kask:** Combined acute ozone and water stress alters the quantitative relationships between O₃ uptake, photosynthetic characteristics and volatile emissions in *Brassica nigra*
- 12:30–13:30** **Business meeting** **Plenary lecture hall**
- 13:30** **Lunch + free afternoon**

THURSDAY 18 JULY 2024

- 09:00–09:50** **Plenary lecture** **Plenary lecture hall**
Miklós Tóth: A voyage in search of King Solomon's ring
- 10:00–10:25** **Coffee break**
- 10:25–12:15** **S11 (part I): Plant-plant communication in both above- and below-ground environments** **Room Z1**
Chairs: Kaori Shiojiri, Junji Takabayashi
- 10:25–10:45 **André Kessler:** Plant volatile-mediated communication and the integration of environmental information
- 10:45–11:00 **Kinuyo Yoneya:** Do initial herbivory and exposure to herbivory-induced volatiles affect arthropod community and species richness?
- 11:00–11:15 **Jin-Soo Son:** Microbe-induced plant volatiles
- 11:15–11:30 **Ariel Novoplansky:** Interplant flowering communication
- 11:30–11:45 **Silvana Laupheimer (student):** *Blumeria hordei* affects volatile emission of susceptible and resistant barley plants and modifies the defense response of recipient plants
- 11:45–12:00 **Leonora Kurdow:** Searching for the plants' *E*-2-hexenal receptor
- 12:00–12:15 **Akira Yamawo:** Plant-plant communications both above- and belowground in osmotic stress
- 10:25–12:15** **S3 (part I): Ecometabolomics: Unveiling the molecular landscape from discovery to ecosystem functioning** **Room Z2**
Chairs: Emmanuel Defosse, Sergio Rasmann
- 10:25–10:45 **Emmanuel Defosse:** The Earth Metabolome Initiative, an introduction
- 10:45–11:00 **Maria da Silva:** MS/MS molecular networking and molecular biology of citrus bacterial infection: Chemical interactions and future perspectives
- 11:00–11:15 **Jürgen Gross:** An innovative dynamic headspace collection technique (HSCD) for outdoor use and suitable for quantitative odor comparison
- 11:15–11:30 **Gautier Demoulinger (student):** Chemical exploration of the interactions within marine algal holobiont: A comparative metabolomic study
- 11:30–11:45 **Ola Abdelrahman (student):** Mining actinomycetes' metabolomes and genomes for anti-*Phytophthora infestans* compounds
- 11:45–12:00 **Abigail Moreno Pedraza:** Exploring the chemical complexity of *Petunia hybrida* pollen
- 12:00–12:15 **Mathias Fontez (student):** Multifactorial daily variations in true lavender inflorescence chemistry in relation to daily pollinator dynamics in lavender fields

- 10:25–12:15** **S18 (part I): Application of semiochemicals in sustainable insect pest management** **Hi-tech hall**
Chairs: Aijun Zhang, Jian Chen
- 10:25–10:45 **Jian Chen:** Enhancing ant bait specificity using semiochemicals
- 10:45–11:00 **Cesar Rodriguez-Saona:** Can elicitors of defenses enhance resistance in berry crops against insect pests?
- 11:00–11:15 **Junji Takabayashi:** Possible use of (*E*)-2-octenal, one of the alarm pheromones of rice-ear bugs, *Leptocorisa chinensis*, for their management under field conditions
- 11:15–11:30 **Tarek Dardouri:** Control of sugar beet yellows viruses by behavioural manipulation of aphid vectors in the field via volatiles
- 11:30–11:45 **Margot Tixeront (student):** Characterization of odors to predict their behavioral effects on the cabbage stem flea beetle, *Psylliodes chrysocephala*, for pest management applications
- 11:45–12:00 **Antonio Ortiz:** Semiochemicals for monitoring the poplar bark beetle *Trypophloeus spp.* (Coleoptera: Scolytidae)
- 12:00–12:15 **Olle Anderbrant:** Pheromone-based insect control in currant production, example of a small market crop dilemma
- 12:15–13:15** **Lunch symposium Synergy Semiochemicals Corp** **Hi-tech hall**
Applying Semiochemicals to protect European spruce forests from *Ips typographus*
- 12:15–13:30** Lunch
- 13:30–14:45** **S11 (part II): Plant-plant communication in both above- and below-ground environments** **Room Z1**
Chairs: Kaori Shiojiri, Junji Takabayashi
- 13:30–13:45 **Jennifer Gabriel:** Plant genetic diversity – Exploring the role of intraspecific trait variation on growth, chemistry, and plant-insect-microbe interactions in white clover (*Trifolium repens* L.) populations
- 13:45–14:00 **Triinu Remmel:** Plant-to-plant signaling between relatives or strangers
- 14:00–14:15 **Yunhe Li:** Stemborer-induced rice plant volatiles boost direct and indirect resistance in neighboring plants
- 14:15–14:30 **Satomi Ishizaki:** The exposure of maize seedlings to weed volatiles affects their resistance, growth and seed quality
- 14:30–14:45 **Abdul A. Jalloh (student):** Exploring the impact of long-term push-pull cropping on belowground microbiome diversity, phytochemistry, and *Spodoptera frugiperda* resistance: Paving the way for resilient farming systems

- 13:30–14:15** **S3 (part II): Ecometabolomics: Unveiling the molecular landscape from discovery to ecosystem functioning** **Room Z2**
Chairs: Emmanuel Defosse, Sergio Rasmann
- 13:30–13:45 **Hanna Nomoto:** The roles of functional and chemical traits in shaping plant community assemblies across an aridity gradient
- 13:45–14:00 **Christopher S. Jeffrey:** The Curious Case of Piper Pink Belly: Reactive Intermediates as Drivers of Chemodiversity Shaping Insect Interactions Across Ecological Gradients
- 14:00–14:15 **Sergio Rasmann:** Chemically mediated interactions along elevation gradients and climate change
- 13:30–16:15** **S18 (part II): Application of semiochemicals in sustainable insect pest management** **Hi-tech hall**
Chairs: Aijun Zhang, Jian Chen
- 13:30–13:45 **Quentin Guignard:** Development of effective trapping procedures for Japanese beetle to aid survey and eradication efforts in Canada
- 13:45–14:00 **Aijun Zhang:** Using a push and pull strategy to manage spotted wing drosophila infestation in blueberry crops
- 14:00–14:15 **Alicia Koßmann (student):** What does an attractive plant smell like? Investigations on the polyphagous brown marmorated stink bug *Halyomorpha halys* for developing a novel push-pull-kill strategy for organic farming
- 14:15–14:30 **Bruna Czarnobai De Jorge:** Deciphering plant-insect interactions: Volatile responses of broad bean pods to Brown marmorated stink bug feeding
- 14:30–14:45 **Jay Darryl Ermio (student):** Plant-microbe-insect interactions: Nectar-inhabiting filamentous fungi affect the olfactory response of egg parasitoids
- 14:45–15:00 **Cesar Gemeno:** Oviposition of tortricid moths on substrate treated with different doses of gustatory stimuli
- 15:00–15:15 **Daniel Mutyambai:** Multitrophic interactions in agroecological-based vegetable push-pull cropping system for healthy vegetables
- 15:15–15:30 **Eirini Anastasaki:** Efficacy of attract-and-kill SPLAT for management of spotted-wing drosophila in grapes and cherries in Greece
- 15:30–15:45 **Yinzhong Cui:** Possible usages of insect pheromone antagonists on pest control
- 15:45–16:00 **Anna Laura Erdei:** Push-pull intercropping revisited: *Desmodium* does not repel ovipositing *Spodoptera frugiperda* but intercepts and decimates their offspring
- 16:00–16:15 **Riccardo Favaro:** *Halyomorpha halys* fruit damage shifts but does not reduce when aggregation pheromone is used in apple orchards
- 14:45–14:55** **Minibreak**

14:55–16:15 S15 (part I): Chemical ecology in the Anthropocene Room Z1

Chair: Robbie Girling

14:55–15:15 **Christina Roggatz:** Climate change vs. natural fluctuations – environmental impacts on the chemical communication process across temporal and spatial scales

15:15–15:30 **Bo Eun Nam:** Climate change alters specialist and generalist herbivore performances through ontogeny-dependent response of *Aristolochia contorta*

15:30–15:45 **Mary Clancy:** Chemotypic variation in drought tolerance of wild cotton populations

15:45–16:00 **Jorg D. Hardege:** The use of sensory cues in aquatic pest management – evaluating the complexity of controlling crustaceans in a changing world

16:00–16:15 **Martin Höfer (student):** The genetic mechanism of diquat tolerance reveals insights into the evolution of non-targeted site resistance to herbicides

14:55–16:15 S12 (part I): Chemical ecology of insect vector-plant interactions Room Z2

Chair: Jonathan Bohbot

14:55–15:15 **Jason Pitts:** Molecular detection of plant volatiles in vector mosquitoes

15:15–15:30 **Jonathan Bohbot:** Evolution of monoterpenoid-mediated repellency in the palp of culicine mosquitoes

15:30–15:45 **Yuri Vainer (student):** OR49-borneol: The key to study olfactory integration

15:45–16:00 **Balvina Leyva (student):** Mapping *Anopheles* mosquito nutritional intake: Metabolomic and molecular perspectives

16:00–16:15 **Evyatar Sar-Shalom (student):** Attraction and repellency: Olfactory effects on *Aedes aegypti* (Diptera: Culicidae) nectar foraging behavior

16:15–16:45 Coffee break

16:45–18:00 S15 (part II): Chemical ecology in the Anthropocene Room Z1

Chair: Robbie Girling

16:45–17:00 **Andrea Clavijo McCormick:** Chemical ecology of invasive plants

17:00–17:15 **Muhammad Usman Rasheed:** Studying the effects of semiochemicals in Scots pine (*Pinus sylvestris*) using a dynamic chamber system

17:15–17:30 **Markus Knaden:** Insect chemical communication in a polluted world

17:30–17:45 **Jordanna Sprayberry:** Mapping innate odor preference in the bumblebee *Bombus impatiens*

17:45–18:00 **Magali Proffit:** Effects of man-made chemical pollutants on the perception and attraction to floral odors in bumblebees

16:45–17:45 S12 (part II): Chemical ecology of insect vector-plant interactions Room Z2*Chair: Jonathan Bohbot***16:45–17:00 Dor Perets (student):** The olfactory basis of *Aedes albopictus* dominance over *Aedes aegypti* at the larval stage**17:00–17:15 Merybeth Fernandez Triana:** Exploring a natural alternative for repelling mosquitoes: Nootkatone**17:15–17:30 S. Noushin Emami:** Innovative selective vector feeding-based trap offers a solution for a safer future**17:30–17:45 Osnat Malka:** Comparative osmoregulation strategies and host plant adaptation in *Bemisia tabaci***16:45–17:45 S18 (part III): Application of semiochemicals in sustainable insect pest management Hi-tech hall***Chairs: Aijun Zhang, Jian Chen***16:45–17:00 Sándor Koczor:** Context-dependent responses of green lacewings to methyl salicylate (Neuroptera: Chrysopidae)**17:00–17:15 Jan Buellesbach:** Extracting information from complex pheromonal profiles: Towards a better understanding of sustainable pest management**17:15–17:30 Binu Antony:** Biosensor Array based Odorant Binding Proteins and Odorant Receptors for detection of Red Palm Weevil infestation of Palm trees**17:30–17:45 Dong Cha:** Developing push-pull management strategies for fruit flies using oviposition deterrent as a push component**CANCELLED****18:00–18:30 Student Awards + Closing Ceremony Plenary lecture hall****20:30 Farewell Cocktail Party Klub Lávka**
(Novotného lávka 201/1, 110 00 Prague 1 – Old Town)**ACTUAL DETAILED PROGRAMME**

GENERAL INFORMATION

Registration Opening Hours

Sunday, 14 July 2024	16:00–21:00
Monday, 15 July 2024	07:45–19:00
Tuesday, 16 July 2024	08:00–19:00
Wednesday, 17 July 2024	08:00–14:00
Thursday, 18 July 2024	08:00–18:00

Instructions for Authors

Oral session

All speakers are asked to upload their presentation in the room of their presentation at least 30 minutes before the session starts or the day before in case of a morning session.

Poster Session

Presenting authors are expected to be present close to their posters during their poster session, respond questions and discuss with colleagues.

- Odd-numbered posters will be presented on Monday, 15 July 2024 during the Poster session I
- Even-numbered posters will be presented on Tuesday, 16 July 2024 during the Poster session II

Wi-Fi

Name of the network: CZU-guest

User name: 2969

Password: 245RE80F

Refreshments included in the registration fee:

- Coffee breaks are served in Exhibition and Poster areas during breaks
- Lunch is served in Menza Hall on the left side of the Plenary Lectures Hall

Congress Secretariat

GUARANT International spol. s r. o.

Českomoravská 19, 190 00 Prague 9 Czech Republic

Phone: +420 284 001 444, e-mail: isce@guarant.cz, website: www.guarant.cz

SOCIAL PROGRAMME

Welcome reception

Venue: Plenary Lecture Hall, CZU
Date: Saturday, 14 July 2024
Time: 19:00–21:30
Admission: Free for all registered participants
Dress Code: Business Casual
Menu: Snacks & drinks

All Congress participants are invited to the Welcome Drink in the Plenary Lecture Hall.

Poster Party

Venue: Poster Area, CZU
Date: Monday, 15 July 2024
Time: 19:30–20:45
Menu: Snacks & drinks

Poster Party

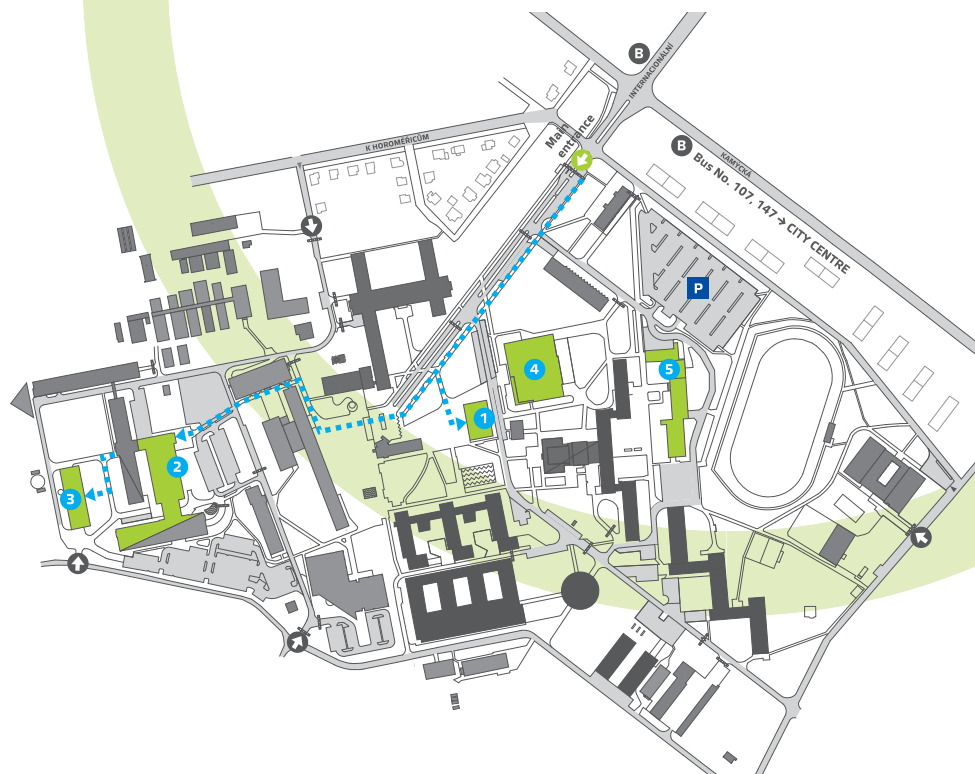
Venue: Poster Area, CZU
Date: Tuesday, 16 July 2024
Time: 19:15–20:45
Menu: Snacks & drinks

Farewell Cocktail Party

Venue: Lávka club
Date: Thursday, 18 July 2024
Time: 20:30–00:00
Address: Novotného lávka 201/1, Prague 1 – Old Town

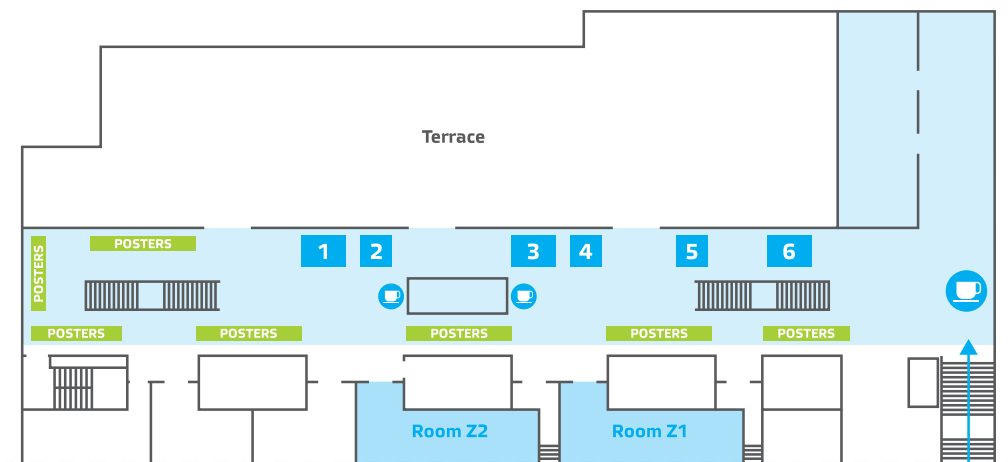
We are delighted to invite you for the Farewell cocktail party. This social event is held instead of the usual conference dinner. **Separate registration fee is required for this social event.**

VENUE MAP



- P** Parking
- B** Bus stops "Zemědělská univerzita"
- ↑** Entrances
- 1** Plenary Lecture Hall (Plenary lectures, Registration area, Welcome drink)
- 2** Symposia (Room Z1, Z2), Room 125, Family Room, Poster area, Coffee Break area
- 3** Symposia (Hi-tech/HT hall)
- 4** Lunch area (Menza hall)
- 5** College dorm

EXHIBITION



- 1 LECO Corporation
- 2 Pragolab s.r.o.
- 3 Pherobio Technology Co., Ltd
- 4 Avantor, Inc.
- 5 Synergy Semiochemicals Corporation
- 6 Russell IPM Ltd.

PARTNERS

Main Partners



Partner of Congress bags & Congress set (pens and notepads)



Congress Lanyards Partner

Company Symposium Partner



Other partners



This event is supported by the Capital City of Prague

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SPONSORED LUNCHTIME SYMPOSIUM

Synergy Semiochemicals Corporation

Applying Semiochemicals to protect European spruce forests from *Ips typographus*

Thursday July 18, 2024, 12:15–13:15, Hi-tech hall



Synergy Semiochemicals Corporation provides custom synthesis of insect pheromones and formulation into controlled release devices for use in the field. We focus in our area of expertise; Forest Entomology. For this sponsored symposia we have invited 3 of our customers in Europe to speak. Each will present their own work using semiochemicals to protect European spruce forests from *Ips typographus*. Please join us for this event that goes through the lunch period. Lunch will be provided in the room for attendees. This event is constrained to the 1 h time slot, so there will be not time for discussion between talks. To help facilitate discussion of this topic during the week we suggest an informal gathering of those interested on Wednesday afternoon, during the conference free time. We can select an appropriate local venue in Prague to pursue further discussion in a more social setting.

Agenda

- | | |
|--------------------|---|
| 12:15–12:28 | Gather in room |
| 12:28–12:30 | Brief Introduction
<i>Bob Setter – Vice President / Entomologist, Synergy Semiochemicals Corp, Canada</i> |
| 12:30–12:45 | Spruce stands for protection against <i>Ips typographus</i> with anti-attractant blend of tree-based semiochemicals: experiments and conditions for practical applications
<i>Rastislav Jakus – Disturbance ecology team, Institute of forest ecology, Slovak academy of sciences, Slovakia</i> |
| 12:45–13:00 | Push-and-pull applications against the European spruce bark beetle in the Eastern Italian Alps
<i>Luca Deganutti, Massimo Faccoli – University of Padova, Veneto, Italy</i> |
| 13:00–13:15 | Results of experimental activities on the field for the protection of spruce trees with the Push and Pull technique in the two-year period 2022–2023
<i>Christian Donati and Veronica Gehza – Risolvo. Lombardi, Italy</i> |
| 13:15–13:30 | Disperse to afternoon ISCE Conference Symposia |

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14-18 July 2024

at the Czech University of Life Science Prague (Faculty of Forestry and Wood Sciences) in Prague.



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