

# List of presentations

## Tuesday, 20 September

8:30 – 10:25

### Session: Behavior 1 (ch. Meta Virant-Doberlet)

**Biotremology: where we are, where do we go** – introductory lecture  
(Meta Virant-Doberlet, Slovenia)

**Deciphering the evolutionary patterns of spider songs (and dances)**  
(Eileen Hebets, USA)

**Variability of vibratory performance during courtship of a cursorial spider**  
(Morgan Oberweiser, Germany)

**Courtship signalling in the Western Black Widow spider (Araneae: Theridiidae)**  
(Andrew Mason, Canada)

11:00 – 12:50

### Session: Behavior & interspecific interactions

(ch. Hannah ter Hofstede)

**The effect of band-passed noise on the vibrational communication and searching behaviour of *N. viridula* males** (Rok Janža, Slovenia)

**Spontaneous emission of vibrations by the planthopper *Scolypopa australis*: does the »ballerina« sing as well?** (Sabina Avosani, Italy)

**Vibrational duetting and signal production in *Aphodes makarovi* leafhoppers**  
(Anka Kuhelj, Slovenia)

**Leafhopper males compensate for unclear directional cues in vibration-mediated mate localization** (Jernej Polajnar, Slovenia)

**Exploring the role of vibrational cues in a parasitoid-host interaction**  
(Caterina Zippari, Italy)

**Influence of vibrational cues on G1 *Ganaspis cf. brasiliensis* host searching behaviour** (Lorenzo Fellin, Italy)

14:20 – 16:10

### Session: Behavior 2 (ch. Wolfgang Kirchner)

**Back to the roots: vibrational communication in cave planthoppers (Hemiptera: Fulgoromorpha)** (Hannelore Hoch, Germany)



**Vibrational communication in the bark beetle *Ips typographus***  
(Julian Kampschulte, Germany)

**Testing alternative hypotheses for the origin of vibrational signaling in lebinthine crickets** (Hannah ter Hofstede, USA)

**Birds feel the vibes: the role of vibrations in songbird courtship communication** (Nao Ota, Germany)

**Cicadatra persica use tymbal sounds and wing clicking during the courtship song** (Matija Gogala, Slovenia)

**A study of multimodal communication using multiple approaches: Uncovering signal functions in a neotropical katydid** (Jennifer Hamel, USA)



## Tuesday 20 September (cont.)

16:40 – 17:30

**Session: Behavior & miscellaneous**

(ch. Nataša Stritih-Peljhan)

**The post-diapause vibrational behaviour of the brown marmorated stink bug *Halyomorpha halys* (Stål) adults at different temperatures**

(Jalal Fouani, Italy)



**Developmental environment shifts choice of feeding environment, signaling environment and signal properties in the treehopper *Entyliа carinata*** (Kasey Fowler-Finn, USA)



**An open-source tool for conducting high-fidelity vibrational playbacks**

(Alana Evora, USA)



## Wednesday, 21 September

8:30 – 10:30

**Session: Behavior & social insects** (ch. Rachele Nieri)

**Stinkbug love story** (Andrej Čokl, Slovenia)

**Tremolo dancing with multimodal signals in jewel bugs**

(Hiromi Mukai, Japan)



**The important role of parental vibrational signaling during brood care in the burying beetle *Nicrophorus vespilloides*** (Taina Conrad, Germany)

**Sex and caste effects on the sensitivity of the sense of vibrations in honeybees (*Apis mellifera*)** (Sarah Chehaimi, Germany)

**A comparative analysis on vibrational signals in burying beetles**

(Caterina Rughetti, Germany)

11:00 – 12:50

**Session: Behavior & ecology** (ch. Eileen Hebets)

**Vibroscape variability within hay meadow habitat** (Behare Rexhepi, Slovenia)

**Active space of substrate-borne signals in a hay-meadow habitat**

(Juan José Lopez Díez, Slovenia)

**In search for information in the hidden world of vibroscape**

(Rok Šturm, Slovenia)

**Who's shaking? On using machine learning to detect vibrational signals in laser vibrometry recordings** (Matija Marolt, Slovenia)

**Vibratory communication of the Russian-leather beetle – a field study**

(Manfred Hartbauer, Austria)

**Comparing airborne and substrate-borne signaling investment across pseudophylline katydids** (Ciara Kernan, USA)





**The role of amplitude in a multimodal insect duet** (Mia Phillips, USA)

## Wednesday, 21 September (cont.)



14:20 – 16:10

**Session: Behavior, ecology & morphology**

(ch. Taina Conrad)

**Vibrations in multimodal interactions in insects** (Alenka Žunič Kosi, Slovenia)**A multicomponent acousto-vibratory courtship described for the first time in a model cricket species** (Nataša Stritih Peljhan, Slovenia)**The subgenual organ complex in stick insects: Functional morphology and its implications for vibration detection** (Johannes Strauß, Germany) **Morphological coupling of mechanosensory organs in stick insects** (Johannes Strauß, Germany) **Exploring the role of plant heterogeneity on the transmission of insect vibrational signals** (Rowan McGinley, USA) **Characterization of substrate-borne vibrational communication of *Bagrada hilaris*** (Marica Scala, Italy) 

16:40 – 18:20

**Session: Behavior 4** (ch. Andrew Mason)**Unpredictable vibratory environments affect prey capture and web structure of the funnel-weaving spider *Agelenopsis pennsylvanica*** (Brandi Pessman, USA) **Does male vibratory courtship influence female predatory behaviour in the cursorial spider, *Pisaura mirabilis*?** (Stefan ter Haar, Netherlands)**Rethinking communication and sexual selection in spiders** (Damian Elias, USA) 

## Thursday, 22 September





8:30 – 10:30

**Session: Applied biotremology 1**

(ch. Takuma Takanashi)

 **Applied biotremology towards the future** (Valerio Mazzoni, Italy) **Five years of vibrational mating disruption in the vineyard**


(Imane Akassou, Italy)

 **Substrate-borne vibrations reduced the infestation of the tobacco whitefly *Bemisia tabaci* (Hemiptera, Aleyrodidae): an experimental assessment in tomatoes, *Solanum lycopersicum*** (Haruki Tatsuta, Japan)  **Substrate-borne vibrational signals and stridulatory organs for sexual communication in leafminer, *Liriomyza sativae* (Diptera: Agromyzidae)** (Qikai Zhang, China) 



11:00 – 13:10

**Session: Applied biotremology 2**

(ch. Valerio Mazzoni)

 **Exploitation of vibration sensing for pest management in whiteflies**




(Takuma Takanashi, Japan)

 **Not just mating: The unexpected side-effects of the disturbance noise on the flight activity and oviposition behavior of leafhoppers** (Rachele Nieri, Italy) **Vibrational monitoring of invasive hoppers in the apple agroecosystem**

(Giovanni Dalmaso, Italy)

 **Vibrational disruption approaches for interfering with vector-borne plant pathogens transmission** (Valentina Zaffaroni-Caorsi, Italy) **Potential use of acoustic communication for pear psylla IPM**

(Downen Jocson, USA)

 **Potential of biotremology for monitoring and control of stink bugs: a Brazilian experience** (Raul Alberto Laumann, Brazil)  **How to teach biotremology in experimental home lab classes under Covid-19 lockdown conditions** (Wolfgang Kirchner, Germany)**Legend:**

keynote



regular



brief



online