

Program

Tuesday – Biotremology Day

09:00 - 10:00: **Opening Lecture (Ch: Hannelore Hoch)**

1. The Growth of Biotremological Thinking – a Proposal for a Common/Unifying Framework and Terminology (Peggy Hill, USA & Andreas Wessel, GER)

10:00 - 10:30: Coffee Break

10:30 - 11:30: **Plenary Lecture: Friedrich G Barth (Introduced by: Matija Gogala)**

2. THE SUM AND ITS PARTS: LEARNING FROM A SPIDER'S VIBRATORY COURTSHIP

11:30 - 12:30: **Talk Session 1: not Hemipteran insects (Ch: Matija Gogala)**

3. Male Katydid use Air-Borne Sound, Substrate Vibrations and Body Temperature to communicate with Females (Heinrich Römer, Ger)
4. Vibrational Communication in the New Zealand Cook Strait Giant Weta (Dan Howard, USA)
5. Seismic Communication in Courting Drosophila Flies (Caroline Fabre, UK)

12:30 - 14:30: Lunch Break

14:30 - 15:30: **Plenary Lecture: Karen M Warkentin (Introduced by Peggy Hill)**

6. WHAT'S SHAKING? EGG VIBRATIONS AS RISK CUES IN THE ESCAPEHATCHING DECISIONS OF EMBRYOS

15:30 – 16:30: **Talk Session 2: Morphofunctionality & Physiology (Ch: Peggy Hill)**

7. Does Morphological Diversity of Vibration-Receptor Organs in Insect Legs reflect Functional Specialisation? (Johannes Strauss, Ger)
8. Vibration Transmission along the Orthopteran Leg - a Sensory Drive for the Vibratory Organ Development? (Natasa Stritih, Slo)
9. Vibration sensitivity of adults of the cicada *Okanagana rimosa* (Reinhard Lakes-Harlan, Ger)

16:30 - 17:00: Coffee Break

17:00- 17:30: **Special Talk (Ch: Andreas Wessel)**

10. Marine Mammals Acoustics and Tools for Bioacoustic and Ecoacoustic Research (Gianni Pavan, Ita)
11. SABIOD Project: Bioacoustics and Ecoacoustics for Research, Monitoring and Conservation of terrestrial Habitats

17:30 – 18:10: **“Insect Drummer Award” (Wessel, Hoch, Cokl, Lakes-Harlan)**

18:10 – 19:00 Steering Committee

Wednesday – Social Day

9:00 - 10:00 Plenary Lecture: Peter M Narins (Introduced by Lakes-Harlan)

12. GROUND SOUND DETECTION IN GOLDEN MOLES: COMPENSATING FOR REDUCED VISION WITH GEOPHONE EARS

10:00 – 10:40: Talk Session 3: Social Insects 1 (Ch: Lakes-Harlan)

13. A Review on the Ability of Termites to use Substrate Vibrations (Sebastian Oberst, Aus)

14. African Vibes – Vibrational Signals in African Stingless Bees (Katrina Krausa, Ger)

10:40 - 11:00: Coffee Break

11:00 – 12:20: Talk Session 4: Social Insects 2 (Ch: Roland Mühlethaler)

15. He's giving me Good Vibrations – The Role of Vibrations in Population Divergence of the Red Mason Bee *Osmia bicornis* (Taina Conrad, Ger)

16. Different Strategies in breaking the Ant's Vibrational Code by Social Parasitic Beetles (Patrizio Tratzi, Ita)

17. Evolution of Lycaenid Vibroacoustic Signals (Luca P. Casacci, Ita)

18. Study on Vibrational Signals in Paper Wasp *Polistes dominula* and in its Social Parasite *P. sulcifer* (Irene Pepiciello, Ita)

12:20 – 14:30 Lunch Break

14:30 – 18:00 Excursion: Monte Bondone

18:00 – 21:30 Social Event: MUSE Show

Thursday – Bug Day

8:00 - 09:00 Plenary Lecture: Meta Virant-Doberlet (Introduced by Andrej Cokl)

19. LEAFHOPPERS: TINY BUT MIGHTY - POWER OF DIVERSITY

09:00 – 10:20: Talk Session 5: Vibrations for natural interactions (Ch: Andrej Cokl)

20. The Effectiveness of Masking Signals in *Aphrodes makarovi* (Anka Kuheli, Slo)

21. The Natural Vibrational Soundscape of the Leafhoppers from the Genus *Aphrodes* (Hemiptera: Cicadellidae) and the Effect of Biotic Noise on Male Behaviour (Rok Sturm, Slo)

22. Vibrational Signals produced by Males of the Spider *Hololena curta* and their Role in suppressing Female Aggression during Courtship (Alenka Zunic Kosi, Slo)

23. Transmission of Vibratory Signals by calling Frogs: could promote Spider Predation? (Torres-Sanchez)

10:20 – 10:50 Special coffee B – Celebration of Klaus Kalmring

10:50 – 12:30 **Talk Session 6: Vibrations for interference and pest control (Ch: Virant-Doberlet)**

24. Vibrational Communication of the Brown Marmorated Stink Bug (*Halyomorpha halys*) and its Potential Use in Pest Control (Jernej Polajnar, Slo)
25. Effect of Background Noise on Reproductive Behavior of Stink Bugs: Prospects for Pest Management (Raul A. Laumann, Bra)
26. Playback Interference of Glassy Winged Sharp Shooter Communication (Shira Gordon, USA)
27. The role of Substrate-Borne Vibrations in Pair Formation and Mating Disruption of the Leafhopper *Empoasca vitis* (Göthe) (Rachele Nieri, Ita)
28. Structural design of signal generators for mating disruption by vibrational signals (Stefano Signetti, Ita)

12:30 – 14:00 Lunch Break

14:00 – 15:20: **Talk Session 7: Hemipteran Insects (Ch: Jernej Polajnar)**

29. Some unsolved Questions about Vibrational Communication in Heteroptera (Matja Gogala, Slo)
30. What we know and what do not know about Stink Bug Communication (Andrej Cokl, Slo)
31. Mating Behaviour of *Psammotettix alienus* Dahlbom (Hemiptera: Cicadellidae) (Maja Derlink, Slo)
32. Substrate-Borne Vibrational Calls of Male *Aacanthocnema dobsoni* (Hemiptera: Triozidae) vary with Body Size and Age but Females are indifferent (Umar Lubanga, Aus)

15:20 – 17:00 Flash Talks (Ch: Casacci & Gordon)

17:00 – 17:30 coffee B

17:30 – 18:00 Young Researcher Award

18:00 – 19:00 Workshops Hall, Hoch, Omologo

33. Authentic Research in the Classroom: Transforming your course into a Coursed-Based Research Experience (CURE) for undergraduates (Carrie Hall, USA)
34. Engineering, Mechanics and Informatics meet Entomology: Communication, Interference and Disruption by Vibrational Signals (Pugno & Omologo, Ita)
35. Making a worldwide and robust Network in Biotremology (Hoch & Wessel, Ger)

19:00 – 19:10 End of Works Mazzoni, Hill, Virant-Doberlet

Flash Talks in detail (Ch: Luca Casacci & Shira Gordon)

1. SABIOD Project: Bioacoustics and Ecoacoustics for Research, Monitoring and Conservation of Terrestrial Habitats ([Gianni Pavan](#), Ita) (on 5th July)
2. A universal platform for in vivo functional neuroimaging in insects ([Albrecht Haase](#), Ita)
3. Can we make an Artificial Leafhopper Female? ([Gašper Korinšek](#), Slo)
4. Comparative Neuroanatomy of the Scolopidial Accessory Organ, a putative Receptor for Low Frequency Vibrations in Orthopteroid Insects ([Johannes Strauss](#), Ger)
5. Vibration-Sensitivity of the Stick Insect *Sipyloidea sipyilus* in different Stimulatory Paradigms ([Johannes Strauss](#), Ger)
6. Physiology of the femoral chordotonal organ of *Drosophila melanogaster* ([Reinhard Lakes-Harlan](#), Ger)
7. Mechanosensory organs in the legs of mantis (*Hierodula membranacea*) ([Reinhard Lakes-Harlan](#), Ger)
8. Good or bad vibrations: impacts of man-made vibration upon marine invertebrates ([Louise Roberts](#), UK)
9. Vibration and Acoustic Songs in the *Acanthoscelides obtectus* (Coleoptera: Bruchidae) ([Lev Shestakov](#), Rus)
10. Vibroacoustic Communication in *Crematogaster scutellaris* Ant ([Alberto Masoni](#), Ita)
11. Context depending Directional Vibration Sensing in *Atta sexdens* ([Felix A. Hager](#), Ger)
12. Feel the Women`s Vibes: Cues used for Directional Vibration Sensing in *Nezara viridula* ([Felix A. Hager](#), Ger)
13. Evolution of Hemipteran tremulatory Signals, with an emphasis on the Heteroptera ([Leonidas Davranoglou](#), UK)
14. Vibratory Communication and Reproductive Isolation in two Sympatric Stink Bug Species (Hemiptera: Pentatomidae: Pentatominae) ([Raul A. Laumann](#), Bra)
15. Why does Mother Burrower Bug shake her Egg Mass? Maternal Hatching Regulation mitigates the Risk of Future Cannibalism ([Hiromi Mukai](#), Jap)
16. Substrate-borne vibrational communication in the vectors of Apple Proliferation *Cacopsylla picta* and *C. melanoneura* (Homoptera: Psyllidae) ([Tiziana Oppedisano](#), Ita)