



Brisbane Powerhouse
119 Lamington St, New Farm QLD 4005, Australia
July 15, 2018
8:30 am to 4:00 pm

SPEAKER SCHEDULE

- 8:30-8:45 am: Cynthia Moss, Welcome and Introduction
- 8:45-9:15 am: Keynote Speaker: Hans-Ulrich Schnitzler, What determines the source level of echolocation signals in bats?
- 9:15-9:30 am: Jinhong Luo, Dynamic control of sonar call amplitude in noise: the Lombard effect in echolocating bats
- 9:30-9:45 am: Kazuma Hase, Adaptive changes in acoustic features of pulses emitted by echolocating bats during group flight
- 9:45-10:00 am: Amanda Adams, Influence of sound direction on biosonar performance
- 10:00-10:15 am: Morning Tea
- 10:15-10:30 am: Yossi Yovel, Bats use path integration rather than acoustic flow to assess flight distance along flyways
- 10:30-10:45 am: Emyo Fujioka, From small to large-scale acoustical navigation behavior of aerial feeding bats during natural foraging
- 10:45-11:00 am: Annette Denzinger, Low frequency echolocation gives access to a new niche space in Horseshoe bats of the philippinesis group
- 11:00-11:15 am: Jerome Beetz, Minimizing signal interference in the fruit-eating bat *Carollia perspicillata*
- 11:15 -11:30 am: Susanne Hoffmann, Towards uncovering the neural basis of biosonar behavior in echolocating birds
- 11:30-11:50 am: Cynthia Moss, Discussion

- 11:50-12:30 pm: Lunch
- 12:30-1:00 pm: Keynote Speaker: Darlene Ketten, Functional anatomy of biosonar from bats to belugas: Commonalities, differences, and knowledge gaps
- 1:00-1:15 pm: Hiroshi Riquimaroux, Protection of carrier frequency in echoes by strong frequency suppressions on the basilar membrane in echolocating bats
- 1:15-1:30 pm: Paul Faure, Tuning for the rate or duration of frequency modulated sweeps in the big brown bat inferior colliculus
- 1:30-1:45 pm: Michael Smotherman, Temporal dynamics of forward masking effects on auditory evoked responses in the free-tailed bat
- 1:45-2:00 pm: Khaleel Razak, Echo level compensation in a gleaning bat, *Antrozous pallidus*
- 2:00-2:15 pm: Afternoon Tea
- 2:15-2:30 pm: Angeles Salles, Neural mechanisms for discrimination of communication and echolocation calls in the big brown bat (*Eptesicus fuscus*)
- 2:30-2:45 pm: Jagmeet Kanwal, From communication to echolocation: Deriving biosonar functionality within the auditory cortex of mustached bats
- 2:45-3:00 pm: Rolf Mueller, Bat biosonar dynamics: Robotic models and sonar sensing
- 3:00-3:15 pm: Amaro Tuninetti, Techniques for sound-field reconstruction and visualization of echolocation
- 3:15-3:30 pm: Jin-Ping Han, Bat biosonar dynamics: Neuromorphic processing and speech applications
- 3:30-4:00 pm: Jim Simmons, Summary and discussion