

Satellite symposium “Neuroethology” - (preliminary program)

Location: University Bielefeld - Building X - Room E0 202

Monday 11.09.2017:

13:50 Welcome address (Boris Chagnaud and Keram Pfeiffer)

14:00 **Prof. Dr. Bernd Fritzs**ch (Iowa city)

Eyes, ears, noses and the lateral line system: Experimental cross-modal and uni-modal reorganizations facilitate understanding of developmental and evolutionary principles

15:00 Coffee break

Session I: Higher brain functions

15:30 PD. Dr. Vera Schlüssel (Bonn)

World in motion: Perception and discrimination of movement in grey bamboo sharks and Malawi cichlids

16:00 Dr. Sarah Nicola Jung (Bielefeld)

*Learning and the involvement of the telencephalon in *Gnathonemus petersii**

16:30 Dr. Janie Ondracek (München)

Sleep in sauropsida: Exploring the evolutionary origin of sharp wave-ripples

17:00 short break (no coffee, but water)

Session II: Sensory integration

17:15 Dr. Stephanie Wegener (Janelia Research Campus)

Know the past to guide the future: The fly's internal compass

17:45 Dr. Olivier Bertrand (Bielefeld)

On my way home: what to do after navigational errors?

18:15 **Invited guest lecture: Prof. Dr. Malcolm Maclver** (Evanston)

Understanding animals through sensory evolution and robotics

19:30 Get together (location will be announced at the meeting)

Tuesday 12.09.2017

8:30 **Prof. Dr. Andrew Straw** (Freiburg)

Using virtual reality and genetics to quantify contributions of multiple visual pathways in fly behavior

Session III: Sensory systems

9:30 Dr. Paul Szyszka (Konstanz)

The olfactory cocktail party for insects.

10:00 Dr. Bart Geurten (Göttingen)

Thermo- and mechanosensation share transducers

10:30 Coffee break

11:00 Dr. Tobias Kohl (München)

Processing of spatial information in the infrared system of rattlesnakes

11:30 Discussion about the organization of future satellite meetings

12:00 Lunch

Session IV: Active sensing and motor control

13:00 Dr. Holger Goerlitz (Seewiesen)

Bats and moths: auditory-guided behaviour in the night sky

13:30 Dr. Tom Weihmann (Köln)

Biomechanical constraints determine gait choice and body dynamics in fast running poly-pedal animals

14:00 Dr. Rebecca Nagel (Potsdam)

*Diversification of the electric organ discharge in *Campylomormyrus* African weakly electric fish*

14:30 **Prof. Dr. Uwe Homberg** (Marburg)

Knowing where to go - the neural basis of sky compass orientation in insects

15:30 Concluding remarks

The symposium is supported by the DZG and by CITEC

In case of last minute Problems (delayed trains,...) please contact us directly via phone:

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