



DTFF

Heidesee, Germany
12 -14 January 2018

Deutsches Treffen für Fledermausforschung



museum für
naturkunde
berlin





WELCOME!

Dear colleagues, dear guests,

it is our great pleasure to welcome you to this years'
Deutsches Treffen für Fledermausforschung, in Heidesee near Berlin.

DTFF Organizing Committee

Conference program pp. 1 – 4

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ORGANIZING COMMITTEE

Museum für Naturkunde, Berlin
Simon Ripperger
Frieder Mayer
Emrah Coraman
Linus Günther

museum für
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Freie Universität Berlin
Mirjam Knörnschild
Martina Nagy
Ahana Fernandez

 **Freie Universität Berlin**

Humboldt Universität zu Berlin
York Winter
Vladi Nachev

H U M B O L D T - U N I V E R S I T Ä T Z U B E R L I N



Juliane Schaer (Macquarie University, Sydney)
Simon J. Ghanem (K&S Umweltgutachten, Berlin)



January 12
Friday

14:00-16:00 Uhr ARRIVAL & REGISTRATION

16:00-16:15 Uhr WELCOME & INTRODUCTION

16:15-16:45 Uhr Gerry Carter Cooperative relationships in vampire bats: theory, controversy, and evidence

SESSION 1

Virology, Physiology & Movement Ecology
chair: *Simon Ripperger*

16:45-17:00 Uhr Bernd Köllner When a virus uses another entrance – Immune mechanisms involved in innate anti-Lyssaviruses immune response in nasal cavity of European bats

17:00-17:15 Uhr Stephanie Reher Extreme flexibility in torpor patterns in a tropical bat (*Hipposideros commersoni*)

17:15-17:30 Uhr Oliver Lindecke The magnetic sense of migrating bats – Its biophysical character and putative role in true navigation

17:30-17:45 Uhr Manuel Roeleke Lunaphilia in open-space foragers

17:45-18:00 Uhr Julia Scholl Movement ecology of noctule bats in an urban environment

18:00-19:30 Uhr DINNER

19:30 Uhr POSTER & DRINKS



January 13

Saturday

09:00-09:30 Uhr	Holger Goerlitz	Low-amplitude stealth echolocation - coevolution or preadaptation?
SESSION 2		Sensory Ecology chair: <i>Annette Denzinger</i>
09:30-09:45 Uhr	<i>Daniel Lewanzik</i>	Reaction towards con- and heterospecific feeding buzzes depends on food patch quality
09:45-10:00 Uhr	<i>Thejasvi Beleyur</i>	Sonar glimpses in the bat cocktail party nightmare
10:00-10:15 Uhr	<i>Jens Koblitz</i>	Foraging behavior of black mastiff bats (<i>Molossus rufus</i>)
10:15-10:30 Uhr	<i>Inga Geipel</i>	The effect of rain noise on roost emergence in two Neotropical bat species
10:30-11:00 Uhr COFFEE BREAK		
11:00-11:30 Uhr	Sabine Schmidt	Emotional acoustic communication in a bat model (<i>Megaderma lyra</i>): concepts, pitfalls and perspectives
SESSION 3		Communication chair: <i>Mirjam Knörnschild</i>
11:30-11:45 Uhr	<i>Philipp Schmidbauer</i>	Social calls of <i>Myotis nattereri</i> during swarming
11:45-12:00 Uhr	<i>Ahana Fernandez</i>	Characterization of babbling behavior in the bat <i>Saccopteryx bilineata</i>
12:00-12:15 Uhr	<i>Lara Sophie Burchardt</i>	Rhythm analysis in three vocalization types of <i>Saccopteryx bilineata</i>
12:15-12:30 Uhr	<i>Meike Linnenschmidt</i>	Vocal development after acoustic deafening in juvenile bats (<i>Phyllostomus discolor</i>)
12:30-12:45 Uhr	<i>Sonja Vernes</i>	Vocal learning in bats: from genes to behavior
12:45-14:00 Uhr LUNCH		
14:00-14:30 Uhr	Marco Tschapka	Flower bats, bat flowers and more...



January 13

Saturday

SESSION 4

Ecology 1

chair: *Vladi Nachev*

14:30-14:45 Uhr	<i>Stefan Brändel</i>	From bat communities to microbial communities: The effect of a changing habitat
14:45-15:00 Uhr	<i>Thomas Hiller</i>	The influence of habitat loss on a bat ectoparasite community in Panama
15:00-15:15 Uhr	<i>Tanja Halczok</i>	Species-specific responses of Neotropical bats to human-induced habitat modifications
15:15-15:30 Uhr	<i>Anna Vogeler</i>	Habitat use of pteropodid bats and their importance as seed dispersers, compared to birds, on the slopes of Mt. Kilimanjaro, Tanzania
15:30-15:45 Uhr	<i>Patrick Cvecko</i>	Implications of differences in availability and abundance of roost resources for leaf-nosed bats (Phyllostomidae) across a lowland rainforest island system in Panamá

15:45-16:15 Uhr COFFEE BREAK

16:15-16:45 Uhr	<i>Uwe Firzlaff</i>	Neural processing in the bat brain: from biosonar to vocal learning
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SESSION 5

Neurobiology

chair: *Kalle Esser*

16:45-17:00 Uhr	<i>Jerome Beetz</i>	Acoustic orientation in the dark: About how the brain processes naturalistic echolocation sequences in the fruit-eating bat <i>Carollia perspicillata</i>
17:00-17:15 Uhr	<i>Jan Pastyrik</i>	Duration tuning in the IC of <i>Carollia perspicillata</i>
17:15-17:30 Uhr	<i>Stephen Hörpel</i>	Processing of fast temporal modulations in bat auditory cortex specifically matches communication call specific sound features
17:30-17:45 Uhr	<i>Francisco Garcia Rosales</i>	Spiking activity in the auditory cortex is synchronized to local beta-band oscillations
17:45-18:00 Uhr	<i>Holger Goerlitz</i>	Information: Tabachka Research Station

18:00-19:30 Uhr DINNER

19:30-20:30 Uhr	<i>Christian Voigt</i>	Movements of bats across anthropogenic landscapes: from processes to patterns to conservation
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20:30 Uhr CHILL-OUT WITH BONFIRE



January 14

Sunday

09:00-10:00 Uhr	Gerald Kerth	The value of long-term field studies in bat research
SESSION 6		Ecology & Behaviour chair: <i>Martina Nagy</i>
10:00-10:15 Uhr	<i>Sophia Beer</i>	Auswirkungen der Dichte künstlicher Baumhöhlen-Ersatzquartiere auf die Populationsentwicklung waldbewohnender Fledermäuse im Untersuchungsgebiet ehemaliger Forstbetrieb Schnaittenbach in der Oberpfalz
10:15-10:30 Uhr	<i>Yann Gager</i>	New insights on the ecology of the Giant noctule (<i>Nyctalus lasiopterus</i>) from a population of the middle of Southern France
10:30-10:45 Uhr	<i>Vladislav Nachev</i>	Ladies' Night Out: Sex-dependent resource defense in <i>Glossophaga soricina</i>
10:45-11:00 Uhr	<i>Nicolas Fasel</i>	Revelations about the mysterious intimacy of bats
11:00-11:30 Uhr	COFFEE BREAK	
SESSION 7		Conservation & Miscellaneous chair: <i>Frieder Mayer</i>
11:30-11:45 Uhr	<i>Jochen Moll</i>	FMCW Radar System at Millimeter-wave frequencies for the detection of bats at wind turbine installations: initial results from a field study
11:45-12:00 Uhr	<i>Sascha Klose</i>	Molecular phylogeny of African epauletted fruit bats
12:00-12:15 Uhr	<i>Karl Kugelschaffer</i>	Lassen sich Fledermausgesellschaften umsiedeln?
12:15-12:30 Uhr	<i>Renate Rabenstein</i>	Paläobiologie der fossilen Fledermäuse aus Messel
12:30-12:45 Uhr	CLOSING MEETING	
13:00-14:00 Uhr	LUNCH	



Posters I

#	Topic	Presenter	Affiliation	Title
01	Behavior	Jan Philipp Bechler	Universität Ulm	Assessing foraging strategies in nectar-feeding bats with a wireless sensor network
02	Behavior	Sophia Louise Gérard	Tierärztliche Hochschule Hannover	Roosting patterns in a captive colony of <i>Carollia perspicillata</i>
03	Behavior	Shambhavi Chidambaram	HU Berlin	Irrational choice and suboptimal decision-making in nectar-drinking bats
04	Behavior	Lara Marggraf	Leibniz Institute for Zoo and Wildlife Research	Bats prefer to migrate in silence: playbacks of con-and heterospecific calls reduce migratory bat abundance at activity-spots
05	Behavior	Darija Josic	HU Berlin	How well does roosting proximity and kinship predict social grooming in common vampire bats?
06	Behavior	Andreas Rose	Universität Ulm	Exploring social learning during ontogeny: Do juvenile flower-visiting bats follow their mothers on first foraging flights?
07	Behavior	Simon Ripperger	Museum für Naturkunde Berlin	Miniaturized wireless sensors provide novel insights into the social life of bats
08	Communication	Tania Bosia	Stiftung Tierärztliche Hochschule Hannover	Social behavior and social call repertoire of <i>Carollia castanea</i> from the wild, in a flight cage
09	Communication	Lutz Wiegrebbe	LMU München	Vocal production learning through imitation of frequency-shifted sounds by bats?
10	Communication	Stephanie M Shields	LMU München	Vocal repertoire of phyllostomid bats, <i>P. discolor</i>
11	Communication	Vanessa Kratzer	LMU München	Fundamental frequency discrimination in <i>Phyllostomus discolor</i>
12	Conservation	Daniela Fleischmann	Stiftung Fledermaus	Monumental bats - Historic buildings as a biodiverse habitat and an object of monument preservation
13	Ecology	Jennifer Pöll	Universität Gießen	Activity of bats around streetlights
14	Ecology	Ebenezer Kofi Badu	Universität Ulm	Intraspecific variation in the food habit of Noack's round leaf bat (<i>Hipposideros cf. ruber</i>) from Ghana
15	Ecology	Kseniia Kravchenko	Ukrainian Independent Ecology Institute (UIEI)	Changes in migratory status of bats revealed by stable isotopes
16	Ecology	Carola Viktoria Behle	Universität Gießen	Migratory pathways of bats in the Gießener Lahntal and adjoining mountain landscapes
17	Ecology	Nina I. Becker	Universität Gießen	Automatic location monitoring in wind farm planning process
18	Ecology	Jorge A. Encarnação	Universität Gießen	Semi-natural bat roosts as continuous ecological functionality-measures (CEF)
19	Ecology	Frauke Meier	Büro Echolot GbR	How to spend the winter: Species and sex specific hibernation phenology of two sympatric European bat species



Posters II

#	Topic	Presenter	Affiliation	Title
20	Ecology	Lena Grosche	Universität Greifswald	Bat hibernacula are more than only winter places: species and sex specific activity patterns show the year-round importance for bats
21	Ecology	Patricia Bulang	ForGen Hamburg & Noctalis	Auf den Spuren von Batmans Familie.. Was uns der genetische Fingerabdruck über die Fledermaus verrät
22	Ecology	Tanja Straka	Leibniz Institute for Zoo and Wildlife Research	Berlin's nightlife: studying urban bats with citizen scientists
23	Ecology	Hanna Wieser	Museum für Naturkunde Berlin	Holes or boxes – Where to roost in an urban forest?
24	Immunology	Marcus Fritze	Leibniz Institute for Zoo and Wildlife Research	Resilience or Resistance – How do European bats cope with White-Nose infections?
25	Immunology	Ihor Tovstukha	Ukrainian Independent Ecology Institute (UIEI)	White blood cells as an indicator of immunological status of bats
26	Neurobiology	Dennis Röhrig	Goethe Universität Frankfurt am Main	Lamnian activity in the auditory cortex of vocalizing bats
27	Neurobiology	Francisco Garcia Rosales	Goethe Universität Frankfurt am Main	Neuronal response patterns and coherence dynamics in response to distress vocalization sequences
28	Neurobiology	Uwe Firzlaff	TU München	The neuro-molecular basis of vocal learning in bats
29	Neurobiology	Ine Alvarez van Tussenbroek	Max-Planck-Institute for Psycholinguistics	Investigating the neurogenetic mechanisms of vocal learning using a bat model
30	Physiology	Michael Speidel	Universität Ulm	Physiological traits in phyllostomid bat species related to roosting temperature
31	Sensory Ecology	Kristin-Jasmin Stelzer	LMU München	Detection of biosonar target changes in FM bats
32	Sensory Ecology	Theresa Hügel	Max-Planck-Institut für Ornithologie	Escaping a bat: Behavioral variability as anti-predator adaptations in moths
33	Sensory Ecology	Antoniya Hubancheva	Max-Planck-Institut für Ornithologie	Acoustic response of European bushcrickets to bat echolocation calls
34	Sensory Ecology	Kathrin Kugler	LMU München	Bat flight in conflicting sensory flow fields
35	Sensory Ecology	Leonie Baier	LMU München	What makes the ripples risky? Surface wave perception with echolocation
36	Sensory Ecology	Verena Reininger	Max-Planck-Institut für Ornithologie	Do temperate bats keep their detection distances constant by adjusting call parameters to daily weather fluctuations?
37	Sensory Ecology	Tania Gonzalez-Terrazas	Universität Ulm	More than a big nose-leaf: echolocation behavior of the phyllostomid insectivorous bat <i>Lonchorhina aurita</i>
38	Sensory Ecology	Diana Schöppler	Universität Tübingen	Precise Doppler shift compensation in the hipposiderid bat, <i>Hipposideros armiger</i> : resting and reference frequencies are coupled but variable
39	Sensory Ecology	Myrna Eble	Universität Tübingen	The alternating low and high frequency echolocation signals of <i>Saccopteryx bilineata</i> may have different functions



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