

**2<sup>nd</sup> International Bat Research Online Symposium (IBROS): Daily and seasonal movements of European bats**  
**24<sup>th</sup> - 25<sup>th</sup> January 2023**

The symposium will be delivered remotely with live lectures in Central European Time.

| <b>Day one (24<sup>th</sup> January)</b>  |   |
|---|---|
| 09:15   | Opening of the meeting for registered participants  |
| 09:15 - 9:30  | Welcome: Christian Voigt<br>Welcome: Andreas Streit (UNEP/EUROBATS)<br>Housekeeping: Josepha Prügel   |
| <b>Session 1: The movement ecology paradigm, orientation/navigation, social aspects</b><br>Chairperson: Christian Voigt |   |
| 09:30 - 10:00   | <b>Ran Nathan (Keynote):</b> The high-throughput revolution in movement ecology and its contribution to bat research  |
| 10:00 - 10:30   | <b>Lasse Jakobsen (Keynote):</b> Habitat and foraging specific echolocation in European bats – the guild concept  |
| 10:30 - 10:32   | <b>Sponsor presentation: Titley Scientific</b>  |
| 10:32 - 11:02   | <b>Richard Holland and Oliver Lindecke (shared keynote):</b> Navigation behaviour and sensory cue perception in homing and migratory bats                               |
| 11:02 - 11:30   | <b>Coffee break</b>   |
| <b>Session 1: ... continued</b><br>Chairperson: Christian Voigt   |   |
| 11:30 - 11:45   | <b>Shannon Currie:</b> Whole animal conversion efficiency increases with increasing flight speed in the migratory bat <i>Nathusius' pipistrelle</i>                     |
| 11:45 - 12:00   | <b>Aya Goldshtein:</b> Do bats use echolocation for large-scale navigation?   |
| 12:00 - 12:15   | <b>Jenna Kohles:</b> Social foraging behavior and information use linked to prey distribution in an ephemeral insect-eating bat   |
| 12:15 - 12:30   | <b>Baheerathan Murugavel:</b> Home ranges and the influence of moon phases on the movement ecology of Indian flying fox males in southern India                         |
| 12:30 - 13:45   | <b>Lunch break</b>  |
| <b>Session 2: Using GPS to study diurnal movements of bats</b><br>Chairperson: Ivana Budinski                           |   |
| 13:45 - 14:15   | <b>Manuel Roeleke (Keynote):</b> Daily movements of European bats – captured with high-resolution tracking systems  |
| 14:15 - 14:30   | <b>Isabella Mandl:</b> Using GPS tracking to understand landscape use of Livingstone's flying foxes, <i>Pteropus livingstonii</i> , on Comoros                          |
| 14:30 - 14:45   | <b>Markus Dietz:</b> Roosting and foraging activity patterns of the Greater Noctule <i>Nyctalus lasiopterus</i> in the Pripiat floodplains (Belarus)                    |
| 14:45 - 15:00   | <b>Celia Lacomme:</b> Habitat selection by <i>Hypsignathus monstrosus</i> in an anthropized landscape in forested Guinea  |
| 15:00 - 15:30   | <b>Coffee break</b>   |
| <b>Session 3: VHF and PIT tracking</b><br>Chairperson: Manuel Roeleke   |   |
| 15:30 - 16:00   | <b>Ivana Budinski (Keynote):</b> Daily movements of bats evaluated by conventional VHF tracking   |
| 16:00 - 16:15   | <b>Chris Driessen:</b> Brown long-eared bat ( <i>Plecotus auritus</i> ) in the Groote Peel (Netherlands)  |
| 16:15 - 16:30   | <b>Patricia Brown:</b> Determining nightly movements of insectivorous southwestern North American bats  |
| 16:30 - 16:45   | <b>Lander Olasagasti:</b> Large PIT tracking systems for the study of <i>Rhinolophus euryale</i> 's roost fidelity  |
| 16:45 - 17:00   | <b>Emmanuel Lourie:</b> Learning to share: Elucidating the drivers of spatial partitioning between neighboring fruit bat colonies using high throughput movement tracks |

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| <b>Day two (25<sup>th</sup> January)</b>   |  |
|--|--|
| 09:30  | Opening of the meeting for registered participants   |
| <b>Session 4: Acoustic surveys</b><br>Chairperson: Christian Voigt                                       |  |
| 09:30 - 09:32  | <b>Sponsor presentation: Wildlife Acoustics</b>  |
| 09:32 - 10:02  | <b>Charlotte Roemer (Keynote):</b> Movements of bats assessed by acoustic recordings   |
| 10:02 - 10:17  | <b>Rym Nouioua:</b> Acoustic behavior in bats: Patterns and characteristics of <i>Pipistrellus maderensis</i> social calls   |
| 10:17 - 10:32  | <b>Sander Lagerveld:</b> Offshore occurrence of a migratory bat, <i>Pipistrellus nathusii</i> , depends on seasonality and weather conditions                            |
| 10:32 - 10:47  | <b>Claudia Wichmann:</b> Phenology and seasonal occurrence of the long-distance migrant Nathusius's pipistrelle ( <i>Pipistrellus nathusii</i> ) in Southwestern Germany |
| 10:47 - 11:15  | <b>Coffee break</b>  |
| <b>Session 5: Banding studies</b><br>Chairperson: Shannon Currie   |  |
| 11:15 - 11:45  | <b>Gunārs Pētersons (Keynote):</b> Migration of European bats assessed by banding data   |
| <b>Session 6: Automated VHF tracking studies</b><br>Chairperson: Shannon Currie                          |  |
| 11:45 - 12:15  | <b>Fiona Mathews (Keynote):</b> Following bats using static radiotracking networks   |
| 12:15 - 12:30  | <b>Antje Seebens-Hoyer:</b> Offshore and coastline migration of radio-tagged Nathusius' pipistrelles   |
| 12:30 - 12:45  | <b>Jannis Gottwald:</b> Classifying the activity states of small vertebrates using automated VHF telemetry   |
| 12:45 - 13:45  | <b>Lunch break</b> <span style="float: right;"><b>13:00 - 13:45 Workshop by Wildlife Acoustics: Being SMART About Bats on Wind Farms</b><br/>(Breakout session)</span>   |
| <b>Session 7: Other techniques for studying migratory bats</b><br>Chairperson: Fiona Mathews             |  |
| 13:45 - 14:05  | <b>Christian Voigt (Keynote):</b> Stable isotopes for deciphering the movements of European bats   |
| 14:05 - 14:20  | <b>Yuval Werber:</b> BATScan: A radar classification tool reveals large scale bat migration patterns   |
| 14:20 - 14:35  | <b>Martin Koch:</b> Deployment of a novel ultra-low power position logger to track bat migration   |
| 14:35 - 14:50  | <b>Dina Dechmann:</b> Sex-biased migration in the common noctule - a decade of results   |
| 14:50 - 15:05  | <b>Edward Hurme:</b> Long-distance tracking reveals bat stopover site usage  |
| 15:05 - 15:20  | <b>Erin Westerhuis:</b> Monitoring movement of individual bats using genomic DNA from scats  |
| 15:20 - 15:45  | <b>Coffee break</b>  |
| <b>Session 8: Anthropogenic threats to daily and migratory movements</b><br>Chairperson: Christian Voigt |  |
| 15:45 - 16:00  | <b>Elena Tena:</b> Wind farms fatalities of <i>Nyctalus lasiopterus</i> in Spain and its relationship with important conservation areas                                  |
| 16:00 - 16:15  | <b>Christine Reusch:</b> Wind energy production leads to habitat loss for common noctule bats in Germany   |

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| <b>Session 8: ... continued</b>        |  |
|--|--|
| Chairperson: Christian Voigt           |  |
| 16:15 - 16:30                          | <b>Michelle Korn:</b> Habitat use and spatial movements of Leisler's bats ( <i>Nyctalus leisleri</i> )   |
| 16:30 - 16:45                          | <b>Arshiya Bagheri Torbehbar:</b> Does wildfire smoke affect summer foraging behaviour in endangered little brown bats?                                      |
| <b>Session 9: Poster presentations</b> |  |
| Chairperson: Christian Voigt           |  |
| 16:45 - 16:48                          | <b>Cynthia Elizalde-Arellano:</b> Nightly movements of hairy-legged vampire bats, <i>Diphylla ecaudata</i> in northern Mexico                                |
| 16:48 - 16:51                          | <b>Mohamed Habib:</b> Reproductive of the Egyptian fruit bat ( <i>Rousettus aegyptiacus</i> ) in Egypt 2022  |
| 16:51 - 16:54                          | <b>Annette Kohnen:</b> Mating patterns, relatedness and population structure of the Leisler's bat ( <i>Nyctalus leisleri</i> )                               |
| 16:54 - 16:57                          | <b>Yoshifumi Niga:</b> Birdlike noctule <i>Nyctalus aviator</i> adapt echolocation to fast-flight open hunters capturing prey at high altitude               |
| 16:57 - 17:00                          | <b>Eva Pavlovič:</b> Short radiotelemetry study of foraging habitats of <i>Pipistrellus kuhlii</i> in Central Slovenia                                       |
| 17:00 - 17:03                          | <b>Primož Presetnik:</b> Foraging habitats of <i>Rhinolophus ferrumequinum</i> and <i>Myotis capaccinii</i> roosting in Škocjanske Caves (Škocjan, Slovenia) |