



# biomove symposium 2018

Integrating Biodiversity Research with Movement Ecology

## Invitation to the 1<sup>st</sup> International BioMove Symposium

26<sup>th</sup> – 28<sup>th</sup> September 2018 at Fraunhofer Conference Center

Am Mühlenberg 12, 14476 Potsdam, Germany

Dear colleagues,

on behalf of the DFG Research Training Group BioMove, it is our great pleasure to invite you to the 1<sup>st</sup> BioMove Symposium on the interplay between movement and biodiversity. During four sessions we will tackle the question how individual movements shape biodiversity patterns, and *vice versa*.



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Wed, 26<sup>th</sup>

### ***From individuality to biodiversity***

Keynote talk by **Dries Bonte**, Ghent University

Thu, 27<sup>th</sup>

### ***Tiny organisms travel long distances***

Keynote talk by **Diego Fontaneto**, CNR-ISE

### ***Animal movements across scales***

Keynote talk by **Wayne Getz**, UC Berkeley

Fri, 28<sup>th</sup>

### ***Living in a landscape mosaic***

Keynote talk by **Nina Farwig**, Philipps-University Marburg



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## Scientific Program

### Session 1: *From individuality to biodiversity*

Mechanisms and factors that influence biodiversity can be addressed in a wide range of taxa with different research angles. Thereby, the focus can range from individual responses to population dynamics and up to community assembly. In this session, we aim to integrate research from all these levels to broaden our understanding of how biodiversity is maintained and shaped.

### Session 2: *Tiny organisms travel long distances*

The need of life to disperse leads to curious phenomena such as the colonization of Hawaiian Islands by ballooning spiders, or the presence of microorganisms in the upper troposphere. While their active dispersal seems to be limited in space by their small size, “tiny organisms”, and other propagules, can passively travel long distances with vectors like currents, birds or even car tires and hand-shakes. The implications of such a striking potential dispersal capacity on biodiversity are still under vivid examination. In this session we will discuss how diversity patterns emerge under the effect of local and regional processes, spanning from unicellular to complex organisms.

### Session 3: *Animal movements across scales*

Individual movements – including foraging, dispersal, and migration – span a wide range in space and time. The realized movement paths depend on internal factors such as motivational state and life-history stages of an animal, as well as external factors such as interactions with other individuals and the underlying landscape structures. In this session, we are going to discuss bottom-up effects of individual movements on overall population dynamics and biodiversity.

### Session 4: *Living in a landscape mosaic*

Large parts of the earth’s surface are covered by anthropogenic landscapes such as farmland, pastures and urban areas, which are embedded in (semi-)natural habitat remains. Various organisms live and survive in these landscape mosaics. But these landscapes are also subject to constant change in both, space and time. In this session we want to contribute to a better understanding of how landscape structure influences ecological patterns as well as processes.



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Within the four sessions we invite participants to share their scientific work in form of talks and posters. We are aiming at hosting a wide variety of research angles and therefore welcome different types of scientific contributions like empirical studies, theoretical work and modelling approaches that fit within the framework of movement ecology and biodiversity research.

The Symposium will be organized by the BioMove PhD students who are about to finish their projects by the end of this year and will present parts of their work as well. We are looking forward to your applications for talks and posters.

## ABSTRACT SUBMISSION IS OPEN NOW!

Online abstract submission will be open **until 1<sup>st</sup> June**. Online registration for the symposium will be open from 15<sup>th</sup> June.

Please stay tuned for updates on the scientific program and social events:

Homepage: <https://biomove2018.org/>

Twitter: [@bio\\_move](https://twitter.com/bio_move)

If you have any further questions, feel free to contact us: [biomove2018@uni-potsdam.de](mailto:biomove2018@uni-potsdam.de)



Leibniz Institute for Zoo  
and Wildlife Research

