

Wintersemester 2009/2010

Gebäude GEO I  
Hörsaal H6

## BayCEER Kolloquium

Vortragsreihe Ökologie und Umweltforschung

Donnerstag 28.01.2010, 16:15 Uhr, H6

Anschließend Postkolloquium mit Bier und Brezeln im Foyer H6

### Dr. Frank Schurr

Universität Potsdam, AG Vegetationsökologie und  
Naturschutz

## From moving seeds to shifting ranges: A demographic approach to plant biogeography

The range dynamics of species results from the dynamics of local populations that are connected by dispersal. This general relationship forms the foundation of a demographic approach to plant biogeography that combines process-based models of local dynamics and long-distance seed dispersal with functional trait measurements, experiments and observational data.

Using examples from European and African plant species, I will show that this demographic approach can explain large-scale distributions and dynamics, and that it provides a basis for understanding how evolutionary and community-level processes shape range dynamics. Furthermore, the integration of this approach into a statistical framework substantially improves our ability to forecast the range dynamics of species exposed to environmental change.

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