

# BayCEER Kolloquium

Lectures in Ecology and  
Environmental Research

winter 2026



UNIVERSITÄT  
BAYREUTH

Donnerstag/Thursday

19.11.2026

12:30 in H6, GEO



## Dr. Florian Pohl

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## Fragmentation and abrasion of plastics by sediments and chemical additive leaching

This presentation introduces the PLASTICAL project, which investigates the fragmentation of plastics during sediment transport and its implications for the release of chemical additives. Using a combination of laboratory-based fragmentation experiments and field analyses in river systems, complemented by marine sampling, we quantify how different transport processes control plastic fragmentation and surface abrasion. By linking fragmentation dynamics to leaching behavior, the project aims to better constrain how sedimentary conditions influence additive release. Ultimately, this work improves predictions of microplastic distribution and associated chemical impacts in environmental systems

