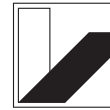


BayCEER Kolloquium

Lectures in Ecology and
Environmental Research

Summer 2025



UNIVERSITÄT
BAYREUTH

Donnerstag/Thursday

17.07.2025

12:30 in H6, GEO



Prof. Dr. Sean Bay

La Tobe University, Melbourne

Atmospheric Energy: A Keystone of Microbial Life and Productivity in Subterranean Environments

Soil bacterial communities play a pivotal role in ecosystem function, they drive global carbon and nutrient cycles and influence climate regulation. While most soil bacteria get their energy from organic matter derived from photosynthesis, a significant number also utilize various inorganic compounds and atmospheric trace gases such as hydrogen, carbon monoxide and methane. In this seminar, I will present my research on the energy dynamics driving microbial biodiversity and primary production in cave ecosystems and discuss the broader implications for soil biodiversity and our planet's climate.

