

Eva Kastovska

University of South Bohemia, Faculty of Science, Ceske Budejovice, Czech Republic

<https://www.prf.jcu.cz/en>

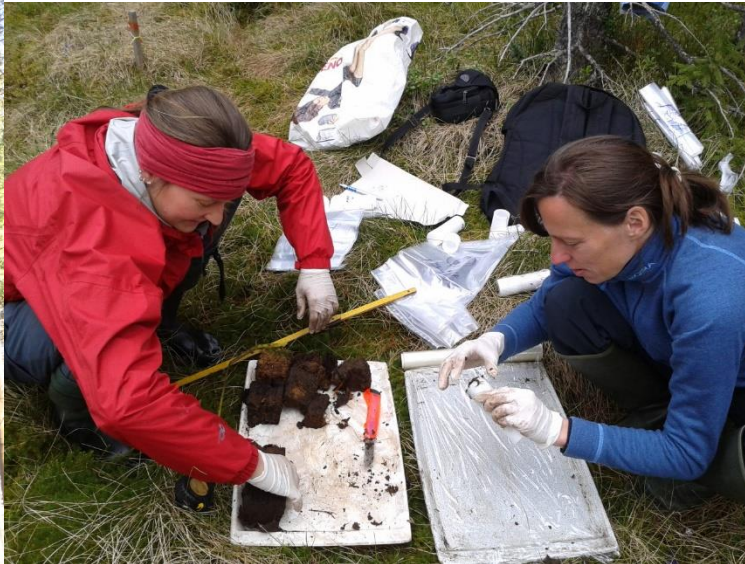


Soil biology group - *Department of Ecosystem Biology, Faculty of Science, USB*



Přírodovědecká
fakulta
Faculty
of Science

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice



Formation and stabilization of soil organic matter in agricultural soils (running project)

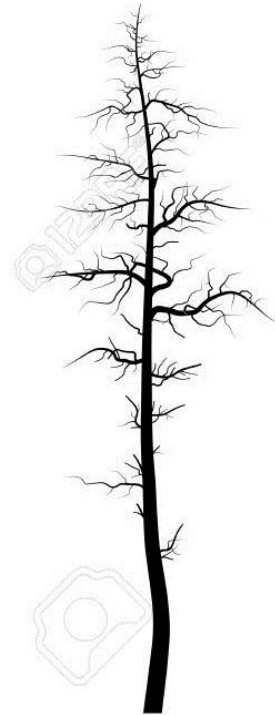
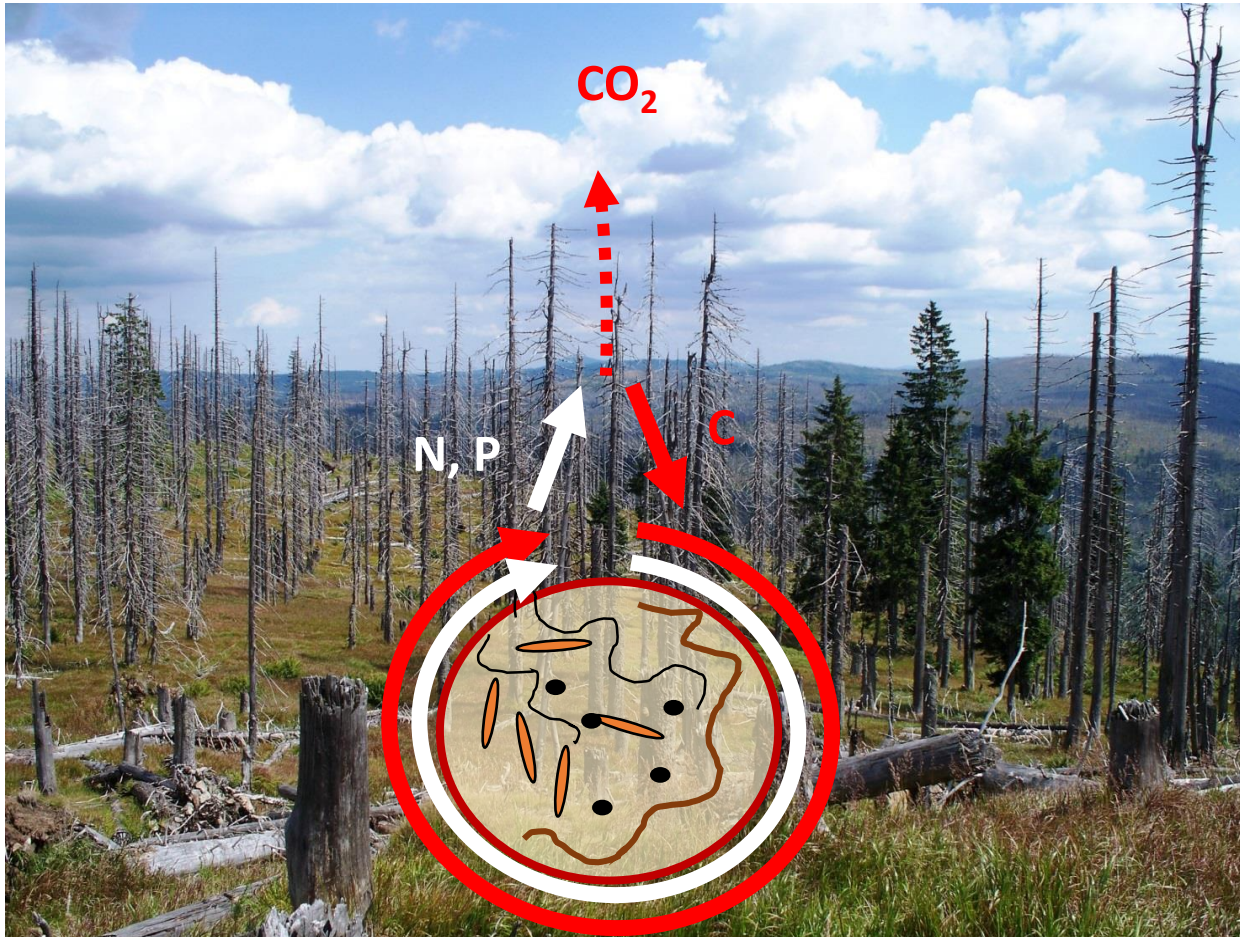
► Identifying conditions supporting formation of stable SOM

- decomposition of **plant inputs of different quality** (shoots, roots, exudates)
- **efficiency** of SOM formation
- **composition and stability of newly formed SOM**
- microbial community responsible for SOM formation
- **PhD position available from 2019 (starting as soon as possible)**



Functioning of temperate and boreal forests

- ▶ **Recovery from acidification (long-term monitoring)**
- ▶ **Development during and after bark beetle outbreaks and wind disturbance**
 - chemical and biological controls of soil C and N retention in forests
 - processes responsible for nitrate and phosphate leaching
 - changes in composition of soil microbial communities
- **PhD/Msc position available from 2020**



Undeveloped and shallow soils at high altitudes (High Tatras in Slovakia)

- ▶ **Behaviour under ongoing climate change (temperature increase, change in precipitations)**
 - focus on biological and chemical controls of increased phosphorus leaching to mountain lakes
 - advantage of long-term monitoring data from 1980ties
 - **PhD/Msc position available from 2020**



We offer

- Well-equipped laboratories for chemical, biological and molecular soil analyses
- Skilled and friendly team of scientists, technicians and students
- Financial support from running project additional to stipend, which is guaranteed
- Accommodation in student dormitory, cheap eating in university canteen

We require

- Basic knowledge about soil environment and nutrient cycling processes
- English good enough to study scientific literature and communicate
- Motivation, willingness to listen and to learn new things, active attitude

Interested? See and contact us:

University of South Bohemia, Faculty of Science, Dept. Ecosystem Biology

<https://kbe.prf.jcu.cz/en>

Eva Kastovska, Ph.D., ekastovska@prf.jcu.cz