

MERGING COURSE 2023 May

Monday:

- 8:00-8:30: Welcome
- 8:30-10:30: Platform lecture: Parameters of Physical soil health and services, Particles, Pores, Phases, Pressures, Phenomena and Pathways of transport, and the Pore-network tortuosity
- 10:30-12:00: The most important curve in the world
- 12:00-13:00: Lunch
- 13:00-16:30: **Introduction to modelling theory**
- 16:30-18:00: Young scientists Forum (3 min, 2 slides, including 1 question)
- 19:00-22:00: Dinner, ping pong and **soil jamming**

Tuesday:

- 8:00-9:45: **Introduction to modelling – Applications**
- 9:45-10:00: Break
- 10:00-10:45: Measurements of the soil-water potential components (retention curve, gas diffusion, potentiometer, WP4-T incl. Kelvin equation)
- 10:45-11:30: Hydraulic conductivity (laboratory methods and field measurements)
- 11:30-12:15: Laboratory measurements of breakthrough curves and colloid facilitated transport
- 12:15-13:00: Lunch
- 13:00-18:00: Laboratory work, field work, exercises and assignments
- 18:00-19:00: Dinner
- 19:00-22:00: Assignments

Wednesday:

- 8:00-12:00: **Coupled process/measurement modeling**
- 12:00-13:00: Lunch
- 13:00-18:00: Laboratory work, field work, exercises and assignments
- 18:00-19:00: Dinner
- 19:00-22:00: Assignments

Thursday:

- 8:00-12:00: **Model Prediction Uncertainty**
- 12:00-13:00: Lunch
- 13:00-18:00: Laboratory work, field work, exercises and assignments
- 18:00-19:00: Dinner
- 19:00-22:00: Assignments

Friday:

- 8:00-12:00: **Identifying Discriminatory Data**

- 12:00-12:45: Lunch
12:45-14:30: Bonus lecture: From a spectroscopic BEEP to everything you ever wanted to know about your soil and need as model input (hands-on and field lecture with NIRS and Fieldspec)
14:30-18:00: Exam preparation
18:00-19:00: Dinner
19:00-22:00: Exam preparation

Saturday:

- 8:00-12:00: **Playing the Data/Model Game**
12:00-13:00: Lunch
13:00-16:00: Exam, group presentations on assignment report, exam and course evaluation
15 min presentation from 6 groups
Everyone has to say something
1 question required from each of the other groups
Handout of diplomas