

## KEYNOTE SPEAKERS



**Dr. Zuosinan Chen**

(University of Oulu, Finland)

Zuosinan Chen's areas of specialization include forest ecohydrology, isotope hydrology and water movement in the soil-plant-atmosphere continuum.



**Prof. Dr. Christina Siebe**

(UNAM, Mexico)

Christina Siebe studies the behavior of pollutants in the soil-plant-water interface as well as nutrient cycles in agroecosystems irrigated with wastewater.



**Dr. Seungoh Hur**

(Rural Development Administration, South Korea)

Seungoh Hur leads and coordinates soil-water-energy-food nexus and digital agriculture projects. He is also in charge of the largest lysimeter system in the world.



**Dr. Kateryna Zhalnina**

(Lawrence Berkeley National Lab, USA)

Kateryna Zhalnina's research interests include physiological, biochemical and evolutionary aspects of plant-microbial interactions and how these interactions mediate biogeochemical cycles.

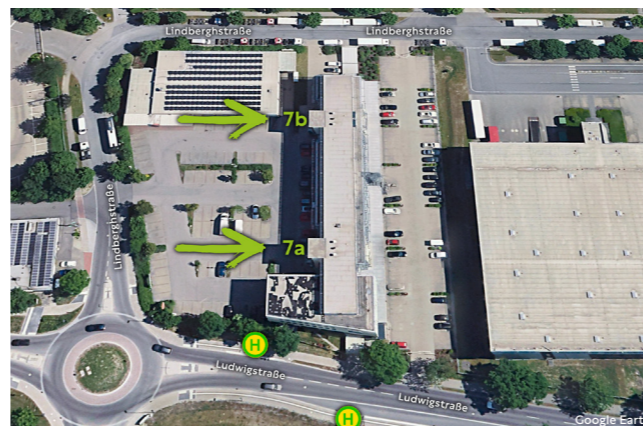
## LOCATIONS

### Workshop Location

[B3]-Loft, Transmobility  
Lindberghstraße 7b  
85399 Hallbergmoos

### UGT Office

Lindberghstraße 7a  
85399 Hallbergmoos  
P. +49 811 124478-0



### Directions & Parking

When you are arriving by car, please allow some time to find a parking space. Please note: The parking area of the supermarket Penny directly in front of the building is monitored. However, you can arrive comfortably by public transport. The bus (lines 691, 698) stops directly in front of our building.

### Catering & Evening Event

In addition to drinks and coffee breaks, we will take care of a varied lunch on all days - including a food truck at our office with kebab & falafel on thursday.

On Tuesday, March 19, at 7 o'clock p.m. you are cordially invited to our Bavarian Evening with food and a contingent of drinks.

It takes place at the Bräustüberl Weihenstephan (Weihenstephaner Berg 10, 85354 Freising). We organize a bus for the outward and return journey.

### Field Trial & Product Rallye

On Wednesday, March 20, afternoon we expect to do a field trial (monolith removal) with you nearby our office.

After the field trial you are invited in our office to see some of our products and solutions in real life.

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MORE THAN  
STANDARD 

# WELCOME TO OUR INTERNATIONAL LYSIMETER AND ECOTRON WORKSHOP

- ✓ Scientific session with lectures
- ✓ Practical demonstration of newest technique
- ✓ Monolith sampling



Get the chance to network with other researchers, users and experts.


# PROGRAM

TUESDAY - March 19, 2024

- 08:00 Registration & Coffee
- 
- 09:00 Welcome - **Dr. Sascha Reth** (UGT)
- 
- 09:45 Construction, operation and data of selected measurement periods of the ReKKS lysimeter station in Kazakhstan  
**Dr. Holger Rupp** (Helmholtz-Zentrum für Umweltforschung, Germany)
- 
- 10:15 Project SuLaMo: Irrigation strategies in arid climates with our RTG Lysimeter  
**Dr. Christian Heerdt** (UGT)
- 
- 10:45 Coffee
- 
- 11:15 A brief history and future of the large weighing lysimeters at the University of California Davis  
**Prof. Dr. Isaya Kisekka** (UC Davis, USA)
- 
- 11:45 Monitoring soil physical properties and processes with the thermo-TDR technology - **Dr. Tusheng Ren** (China Agricultural University, China)
- 
- 12:15 Lunch
- 
- 13:30 Influence of different tillage methods on soil evaporation  
**Dr. Steffi Knoblauch** (Thüringer Landesamt für Landwirtschaft und Ländlichen Raum, Germany)
- 
- 14:00 Using Ecotrons to separate the effects of above and belowground drought - **Dr. V. Munaldi Lube / Yuheng Chen** (Utrecht University, Netherlands)
- 
- 15:00 Introducing SVADSS - our data specialist - **Leonard Zechmeister** (UGT)
- 
- 15:30 Coffee
- 
- 16:00 From Lab to Field: Exploring Plant-Microbe Interactions in the Rhizosphere with EcoPOD Technology  
**Dr. Kateryna Zhalnina** (Lawrence Berkeley National Lab, USA) 
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- 17:00 Summary & Preview - **Dr. Sascha Reth** (UGT)
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- 17:15 End
- 
- 18:30 Departure to the Bavarian Evening by Bus

# PROGRAM

WEDNESDAY - March 20, 2024

- 08:45 Welcome - **Dr. Sascha Reth** (UGT)
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- 09:00 Lysimeter setups to study the water balance of green roofs  
**Prof. Dr. Kristian Förster** (HSWT Freising, Germany)
- 
- 09:30 Impact of water quality change after long term wastewater irrigation in Mexico: first results of a lysimeter experiment  
**Prof. Dr. Christina Siebe** (UNAM, Mexico) 
- 
- 10:30 Biodiversity and Ecosystem Function: How much diversity and how much system do we need to understand function?  
**Dr. Jes Hines** (iDiv, Germany)
- 
- 11:00 Coffee
- 
- 11:30 Transport and mobilization behavior of PFAS precursor compounds in leachate  
**Ann-Sophie Heldele** (Bayerisches Landesamt für Umwelt, Germany)
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- 12:00 Picarro and UGT - system solutions in lysimeter and ecotron research  
**Theo Steenwijk** (Picarro, Netherlands)
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- 12:30 Lunch
- 
- 13:30 Welcome & Planning Field Trip - **Dr. Sascha Reth** (UGT)
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- 14:00 Start Field Trip
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- 16:00 Product Rallye in our office
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- 17:00 End



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# PROGRAM

THURSDAY - March 21, 2024

- 08:45 Welcome - **Dr. Sascha Reth** (UGT)
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- 09:00 In-situ high-resolution measurements of stable water isotopes along the snow - soil - tree pathway  
**Dr. Zuosinan Chen** (University of Oulu, Finland) 
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- 10:00 Forest Floor Grid-Lysimeter  
**Heinke Paulsen** (Albert-Ludwigs-Universität Freiburg, Germany)
- 
- 10:30 Impact of phosphorus fertilizer application on Cadmium dynamic and transformation in the soil-plant continuum of tomato crop grown in alkaline soils - **Rachida Naciri / Dr. Mohamed Chtouki** (Mohammed VI Polytechnic University, Morocco)
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- 11:00 Coffee
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- 11:30 EcoClim - an advanced growth chamber - **Dr. Sascha Reth** (UGT)
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- 12:00 Effective sap flow measurements for forest environmental monitoring  
**Stephan Rimmele** (Bayerische Landesanstalt für Wald und Forstwirtschaft (LWF), Germany)
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- 12:30 Lunch - Food Truck
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- 13:30 Construction and operation of a digital lab system using an automatic weighing lysimeter - **Dr. Seungoh Hur** (Rural Development Administration, South Korea) 
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- 14:30 The hidden half of plant water relations: root-soil interactions impacting plant response to drought - **Prof. Dr. Mutez Ahmed** (TU München, Germany)
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- 15:00 Coffee
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- 15:30 New insights on the dynamics of plant water and carbon fluxes from on-line isotope measurements in enclosed model ecosystems.  
**Kathrin Kühnhammer** (Albert-Ludwigs-Universität Freiburg, Germany)
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- 16:00 Final words & farewell - **Dr. Sascha Reth** (UGT)
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- 16:30 End