

19. Gumpensteiner Lysimetertagung

Web-Konferenz

Lysimeter und
Bodenwasserhaushalt:
Trockenheit - Bewässerung
- Ertragssicherheit

Lysimeter and soil water
management: drought -
irrigation - yield stability

13. und 14. April 2021

Dienstag, 13. April 2021

08.30 Technische Einführung - Online Webinar-
Tool (Matthias Kandolf)

08.50 Begrüßung und Eröffnung

5' A. Hausleitner

5' R. Nolz

Session 1: Bodenwasserhaushalt

Vorsitz: A. Bohner

09.00 Comparison of lysimeter and scintilometer
data with reference evapotranspiration

20' M. Herndl et al.

09.20 Estimating crop evapotranspiration of
managed alpine grassland using remotely
sensed LAI

20' M. Vremec et al.

09.40 Partitioning evapotranspiration based on
lysimeter water balance data and isotope
profiles

20' G. Liebhard et al.

10.00 Evaluation of evapotranspiration methods
by means of weighing lysimeter data in
Argentina

20' A.M.G. Faraminán et al.

10.20 Multi-source characterisation of non-
rainfall water inputs to a semi-arid
ecosystem

20' S. Paulus et al.

10.40 Water fluxes in semiarid soils: A
comparison between grassland and
agricultural land

20' L. Haselow et al.

11.00 Pause

- 11.20 Investigating shrub-encroached mountain
grassland using high precision lysimeters
20' G. Leitinger et al.
- 11.40 Vergleich der Bodenfeuchteausschöpfung
eines Lößbodens im Lysimeter und im
Feld unter Ackerkulturen
20' S. Knoblauch
- 12.00 Wasser- und Elementbilanzen von
erosionsbeeinflussten Ackerböden in
wägbaren Lysimetern
20' H.H. Gerke et al.
- 12.20 Pflanzenwachstum und
Bodenwasserflüsse an von Erosion
betroffenen Ackerflächen
20' J. Groh et al.
- 12.40 Pause

Session 2 - Poster

Vorsitz: M. Herndl

- 13.40 A comparison of bulk and wet-only
deposition at the mountain pasture site
Stoderzinken
M. Schink et al.
- 13.45 Ecohydrology of mountain grassland
under global change
M. Bahn et al.
- 13.50 Drought and heat cause a shift in
vegetation composition in a mountain
grassland
E. Tello-Garcia et al.
- 13.55 Water use of lawns determined in
weighing lysimeters
J. Zsembeli et al.
- 14.00 Impact of crop residues on soil water
evaporation in weighing lysimeters
M. Jancsó et al.

- 14.05 Predicting bare soil evaporation by numerical modeling - the role of hydraulic functions
D.C. Joshi et al.
- 14.10 Estimating soil hydraulic parameters from lysimeter data: a Bayesian perspective
M. Schübl et al.
- 14.15 Abschätzung und Reduktion der Nitratauswaschung im Feldgemüsebau
E. Spiess et al.
- 14.20 Substratevaluierung anhand von Stadtbaumlysimetern mit pflanzenphysiologischem Monitoring
A. Zeiser et al.
- 14.25 Zum Wasserhaushalt grundwassernaher Standorte im Wechselspiel von Nass- und Trockenjahren
O. Dietrich et al.
- 14.30 Modellierung hydraulischer und geochemischer Prozesse in Grundwasser-Lysimetern
M. Davies et al.
- 14.35 Diskussion der Poster
- 15.05 Ende 1. Tag Web-Konferenz

Mittwoch, 14. April 2021

Session 3: Nährstoffhaushalt

Vorsitz: A. Bohner

- 08.45 Technische Einführung - Online Webinar-Tool (Matthias Kandolf)
- 09.00 Model-based assessment of the impact of irrigation on groundwater quantity and quality
20' J. Fank and G. Klammler
- 09.20 Identification of mechanisms controlling nitrogen export from agricultural lysimeters
20' S. Werisch and D. Burghardt

- 09.40 The effects of natural drying and subsequent re-humidification on the nitrogen leaching
20' H. Rupp and R. Meissner
- 10.00 Auswirkungen des Klimawandels auf die Stickstoffbilanz eines Grünlandökosystems
20' M. Giraud et al.
- 10.20 Nitratauswaschung unter Gemüse bei unterschiedlichem Ernterückstandsmanagement
20' E. Spiess et al.
- 10.40 Pause

Session 4: Schadstoffe

Vorsitz: M. Herndl

- 11.00 Leaching of pesticides in lysimeter- and field trials with sandy loam soils
20' N. Tauchnitz et al.
- 11.20 Transport von organischen Umweltchemikalien in Lössböden
20' Th. Demmel et al.

Session 5: Sonstige

Vorsitz: M. Herndl

- 11.40 Wasserverbrauch und Wachstumsdynamik von *Quercus frainetto* und *Tilia cordata*
20' M. Schreiner et al.
- 12.00 New developments in lysimeter technology
20' G. Klammler et al.
- 12.20 Generaldiskussion
R. Nolz
- 12.50 Ende der Web-Konferenz

Informations about Web conference

Registration until thursday, 8th of April 2021

A free registration is required until 8th of April, 24 o'clock. Only registered people can participate at the web conference.

Technical informations concerning web conference

For the participation at the web conference you will receive the login details via email after successful registration. For safety reasons the login details will be send 24 hours prior to the beginning of the conference.

For participation at the web conference you need a technical terminal equipment (laptop, computer, tablet, smartphone) with internet connection. A registration at the provider of the web tool is not necessary. The installation file will be automatically downloaded when you open the link.

Please take care of a good internet connection and close all other programs and downloads. A headset and a webcam would be an advantage, but is not essential.

If you have opened the link of participation, please enter with your name (first and last name) and the name of your company/institution.

The web conference will be open at tuesday, 13th of April 2021 from 8:00 a.m. You can enter before the beginning of the web conference in order to make a technique check. At 8:30 o'clock a short technical introduction will take place.

For organisational questions, please contact Brigitte Marold (brigitte.marold@rauberg-gumpenstein.at).

For technical questions, please contact Matthias Kandolf (matthias.kandolf@rauberg-gumpenstein.at).

We are looking forward to see you at the 19th lysimeter conference held in the form of a web conference.

Organisation

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Lysimeter research group

A Web-conference in cooperation with the University
College for Agricultural and Environmental Pedagogy
Vienna

Binding registration by the **8th of April 2021** at the
latest online via **www.raumberg-gumpenstein.at**

Proceedings

We will prepare proceedings, available free of charge at the beginning of the conference as a pdf-version via the homepage of AREC Raumberg-Gumpenstein. Moreover it is also possible to purchase the proceedings via postal delivery (Euro 15,00).

Slides of the oral presentations

If an approval will be given by the speaker, the slides of the oral presentation (pdf-version) will be available free of charge by the end of one week after the conference via the homepage of AREC Raumberg-Gumpenstein.



Impressum

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