

SYMPOSIUM

SUSTAINABLE GROUNDWATER

USE FOR GENERATIONS TO COME

University of Copenhagen

Department of Geosciences and Natural Resource Management
Section of Geology, Water Resources Research Group

November 16-17, 2022

We invite everyone interested to join us during a two day symposium to celebrate and highlight 2022 as the year of groundwater, and focus on the significance of groundwater as an important water resource. Invited internationally recognized research experts in groundwater will present state-of-the-art sciences and methods, as well as future challenges within a range of disciplines of importance for groundwater research. In addition, national young researchers will present their current research activities.

The symposium is free and open to all interested parties and includes complimentary lunch, dinner and provisions during the two days.

To participate, please register by sending an email to Sofie Aagaard, sa@ign.ku.dk, with name, affiliation, whether you will participate one or two days and will join the complimentary dinner Wednesday evening, as well as any dietary requirements.

Deadline for registration: November 8th at 12:00.

The symposium will be held in:

Auditorium B, 3rd floor, Øster Voldgade 10, 1350 Copenhagen K

Wednesday, November 16th, 2022

09:00 - 09:15

Welcome by **Vice Dean Professor Lise Arleth (DK)**

09:15 - 09:50

Professor Marc Bierkens, Utrecht University (NL)

Large-scale groundwater modelling to explore the global limits of groundwater use

09:50 - 10:25

Professor Petra Döll, Goethe-Universität Frankfurt (DE)

Water flows between groundwater and surface water bodies:

How to simulate them at the global scale

10:25 - 10:55

Break

10:55 - 11:30

Professor Reed Maxwell, Princeton University (US)

Accelerating continental-scale groundwater simulation with a fusion of machine learning, integrated hydrologic models and community platforms

11:30 - 12:05	Professor Georgia Destouni, Stockholm University (SE) Resolving legacy groundwater pollutants through stream water chemistry and sensitivity to hydroclimatic change
12:05 - 13:05	Lunch
13:05 - 13:35	Professor Okke Batelaan, Flinders University, Adelaide (AU) Groundwater - Hedgehogs and foxes
13:35 - 14:10	Professor Simon Stisen, GEUS (DK) National scale groundwater-surface water modelling in Denmark
14:15 - 14:45	Break
14:45 - 15:45	Presentations by local young researchers
15:45 - 16:15	Break
16:15 - 17:15	Presentations by local young researchers
18:00 -	Dinner

Thursday, November 17th, 2022

09:15 - 09:50	Professor Thorsten Wagener, Universität Potsdam (DE) On the evaluation of subsurface processes in large-scale hydrologic models
09:50 - 10:25	Professor Gudrun Massmann, Universität Oldenburg (DE) Dynamic coastal environments - from freshwater lenses to subterranean estuaries and submarine groundwater discharge
10:25 - 10:55	Break
10:55 - 11:30	Professor Stefan Kollet, Forschungszentrum Jülich (DE) The role of groundwater memory in terrestrial feedbacks with the atmosphere
11:30 - 12:00	Discussion
12:00 - 13:00	Lunch

The symposium is funded by the Novo Nordisk Foundation.

