

GROUNDWATER FORUM

12 SEPTEMBER 2022

Presented by The Capital Region of Denmark and ATV Soil and Groundwater

Objective

The IWA World Water Congress & Exhibition Groundwater Forum aims to promote groundwater as a critical resource to achieve the Sustainable Development Goals, and critically, safe drinking water for all. The Forum will provide examples from around the globe on the management of groundwater quantity and quality. Invited speakers will highlight challenges and solutions for sustainable groundwater exploitation. In three sessions, we will explore and facilitate participant discussions on groundwater topics such as management and cooperation around scarce resources and competing interests, quantifying groundwater sustainability, risk assessment of emerging pollutants, sharing of groundwater data and more.

Programme headlines (see also next page)

- Groundwater Management
- Groundwater Sustainability
- Protection of Groundwater Quality

We are looking forward to welcome participants from across the world to join the Groundwater Forum.



Planning Committee

Martin Rygaard, Associate Professor, DTU Environment, Technical University of Denmark
Ida Holm Olesen, Head of Department, The Region of Southern Denmark
Katerina Tsitonaki, Technical Director, M.Sc., Ph.D., WSP Denmark
Gunver Heidemann, Chief Consultant, The Capital Region of Denmark

Co-host: Dr. Stephen Foster, IWA Groundwater Management Specialist Group



Technical Tour 1 - Groundwater: From Well to Tap

14 September 2022

Visit a Danish waterworks producing drinking water from groundwater and hear more about how the Capital region of Denmark protects the groundwater from contaminated sites.

Visit the Capital Region of Denmark at the Danish Pavilion

The Capital Region of Denmark invites you to visit our pavilion in Bella Center. At our pavilion you will see a model in 3D of our work to remove chemical solvents from contaminated groundwater and bring it up to drinking water quality. You can also hear how we protect people and the nature from contaminated soil and our work of climate adaptation.

GROUNDWATER FORUM SESSIONS

12 SEPTEMBER 2022

1. Session Groundwater Management

Session Chair: Ida Holm Olesen

Introduction by Anders Bækgaard, IWA WWC President and Dr. Stephen Foster, IWA Groundwater Management Specialist Group
Groundwater Frontiers for a Sustainable and Resilient Future

Embracing the Challenges and Strengthening the Synergies by Karen Villholth, Principal Researcher, International Water Management Institute, South Africa

Groundwater Management in Kenya: Opportunities & Challenges by Julia Gathu, Operations Manager-Drilling for Life, Kenya & Secretary for IWA Groundwater Management Specialist Group

Replenishing aquifers in water-scarce countries: Assessing groundwater quality changes induced by the large-scale injection of reclaimed wastewater by Dr. Henning Prommer, Principal Research Scientist at CSIRO Land and Water, Australia, and Winthrop Research Professor at University of Western Australia

Interactive session with Young Water Professionals: Lessons learned – Discuss and list three best practices in groundwater management. Consider different climates and geographic backgrounds. Make a 140 character tweet.

2. Session Groundwater Sustainability

Session Chair: Katerina Tsitonaki

Sustainable management of slow groundwater in a fast-changing world: challenges and opportunities by Mark Cuthbert, Principal Research Fellow & Reader, Cardiff University, UK

Sustainability assessment of groundwater use. How can we integrate long term water quality in the assessment? by Martin Rygaard, Associate Professor, Tech. University of Denmark

The importance of groundwater in San Francisco and the Bay Area, California by Paula Kehoe, Director of Water Resources, SF Public Utilities Commission

Interactive roundtable session: How can groundwater play a role in filling water gaps in water stressed regions? Who should act? How? Make a 140 character tweet.

3. Session Protection of Groundwater Quality

Session Chair: Martin Rygaard

The impact of contaminated sites on groundwater. Risk assessment – decisions to treat or not by Niels Døssing Overheu, Environmental Engineer, Environmental Section, The Capital Region of Denmark

Agriculture and drinking water from groundwater: Vulnerability for diffuse pollutants by Ingeborg Joris, Researcher, Flemish Institute for Technological Research

The Challenge of PFAS in Groundwater: Lessons learned and best practice guidance from the United States by Seth Kellogg, Principal Geologist, Geosyntec

Interactive roundtable discussion: What do you find are the two most pressing issues in terms of groundwater quality? What is the first step for a solution? Who should act together? Make a 140 character tweet

Legacy and refreshments

10 min legacy, bridging Groundwater Forum to IWA and IWA 2024 in Toronto by Dr. Stephen Foster, chair IWA Groundwater Management Specialist Group

Join us for refreshments at the Capital Region of Denmark, Danish Pavilion Town Square.