

Groundwater Forum

Groundwater – a resilient resource in times of change and crisis

The Groundwater Forum aims to promote groundwater as a critical resource to achieve the Sustainable Development Goals. In three sessions, the forum will explore and facilitate participant discussions on strengths, weaknesses, opportunities and threats of a groundwater-based water supply. By sharing knowledge on the resilience of a groundwater-based water supply in times of conflict and climatic crisis, the forum aims to support water utilities and other decision-makers urgently in need of futureproof strategies.

Organized by:

Key organizing committee from Danish Water Forum: Anders Bækgaard, former congress president, Ida Holm Olesen, InSa-Drikkevand, Inês Breda, Grundfos, Jesper Goodley Dannisøe, DWF, and Michael Ramlau, AVK.

In cooperation with Simon Gautrey, WSP, Eric Hodgins and Mike Lywood representing LOC and Pia Jacobsen, Water Valley Denmark.

Room: 803A

Program:

Groundwater Forum Monday 12. August 2024			
Groundwater - a resilient resource in times of change and crisis			
Time slot	Title	Keywords	Speakers
10:30-12:00 am			
Session I: Strengths and weaknesses of a groundwater-based water supply			
Session Chair: Ida Holm Olesen, Danish Water Forum, Denmark.			
Session Co-Chair: Simon Gautrey, WSP Canada			
5 min	Official opening of Groundwater Forum by Jarl Frijs-Madsen, Ambassador, Royal Danish Embassy to Canada		
20 min	Why Groundwater is Important to the Future of Humanity	A global perspective on the status of groundwater-based water supplies Global Water crisis Knowledge of groundwater as a prerequisite for a sustainable groundwater supply Groundwater project	Dr. John Cherry, University of Guelph, Canada
15	25% Groundwater and increasing – A growth Scenario from the Region of Peel, Canada	Balancing water supply from groundwater and surface water in a changing climate Pros and cons of increasing the use of groundwater	Luis Lasso, Region of Peel, Canada
15	Groundwater in a South African perspective	Harnessing localised polycentric governance for groundwater management to enhance water security and resilience	Dr Shafick Adams, Water Research Commission, South Africa

15	Groundwater is a hidden resource – can it be managed?	Difficulties managing a hidden resource. Balancing societal needs and individual interests	Katherine Dlubac, California Department of Water Resources, USA
20	Interactive session facilitated by Water Valley Denmark		Pia Jacobsen, Water Valley Denmark
1:30-3:00 pm			
Session II: Hidden opportunities of a groundwater-based water supply			
Session Chair: Bjørn K. Jensen, Water4All, Denmark			
Session Co-Chair: Hans-Martin Friis Møller, Kalundborg Utility, Denmark			
15	Any hidden potentials of groundwater towards SDG6 and beyond?	Main conclusions from the report “Hidden Wealth of Nations”	Gustavo Saltiel, Global lead for water supply and sanitation, World Bank
15	The transition from surface-water based to groundwater-based water supply in times of conflict	Case from Mykolaiev, Ukraine	Viktor Pisotskiy, Director for Strategic Planning, Mykolaiev, Vodokanal, Ukraine
15	How to find the hidden treasure? Geophysical techniques	Status and latest developments in groundwater exploration	Esben Auken, TEMcompany, Denmark
15	Sustainable groundwater management in rural areas in developing countries	Examples from Ghana, Kenya and Ethiopia	Anise Sacranie, Grundfos, Denmark
15	Towards SDG6 in developing countries: the potential of groundwater	Public-Private Partnerships can facilitate integration of groundwater as a large-scale water source in developing countries	Ryan Phillips-Page, Operations Water, Canada
15	Interactive session facilitated by Water Valley Denmark		Pia Jacobsen, Water Valley Denmark
15	Water scarcity – hunting groundwater	Finding deep groundwater via mapping from oil industry – Horn of Africa	Helene Ruden, Ruden A/S
3:30-5:00 pm			
Session III: Imminent threats of a groundwater-based water supply			
Session Chair: Anders Bækgaard, IWA Congress President 2022, Denmark			
Session Co-Chair: Julia Gathu, IWA GWM SG, Kenya			
15	Groundwater quality threats from mining for	Groundwater related issues from the mining, processing and disposal of minerals critical to the energy transition.	Professor Roger Beckie, University of British Columbia, Canada

	the green energy transition		
15	Overview of mining practices and regulation in Canada as they relate to groundwater	Introduction to mining practices and regulation in Canada and measures taken to protect groundwater quality from mining.	Simon Gautrey, WSP Canada
15	Climate change increases the frequency of forest fires – how does this impact groundwater quality?	Threats to Groundwater Quality and Public Health from Wildfires and other Climate Shocks	Professor Monica B. Emelko, University of Waterloo, Canada
15	Groundwater Vulnerability in the face of climate change	Effects of extreme weather patterns such as floods and drought – examples from Kenya, China and Brazil	Julia Gathu, Drilling for Life, Kenya
15	Untreated effluents as a threat to groundwater quality and public health	Emerging contaminants in groundwater – a global view and examples from Mexico.	Dr. Pabel Cervantes-Avilés, Tecnológico de Monterrey, Mexico
15	Interactive session facilitated by Water Valley Denmark		Pia Jacobsen, Water Valley Denmark
17:00-17:30			
	Groundwater reception	Hosted by Grundfos	Grundfos booth (nr. 400)