

Program Nationaal Congres Grondwater

June 11th, 2026

IHE Delft Institute for Water Education



08:30 – 09:15 | Registration & Welcome Coffee

09:30 – 10:10 | Opening Ceremony – Auditorium A1

- Welcome words by IHE Delft – Prof. Graham Jewitt
- Opening + outline of the day by IAHR - NL Chapter – Dr. Niels Hartog
- **Keynote speaker – Ir. Ida de Groot-Wallast**

Understanding of groundwater in policy and politics

10:20 – 11:20 | Block 1 ORAL PARALLEL SESSIONS

❖ **Session 1 – Managed Aquifer Recharge & Applications - Auditorium A1**

Session chairs/moderators: Reynold Chow & Andrew Pearson

[11] Simon Kreipl

Horizontal wells as a promising option for Aquifer Storage and Recovery in saline aquifers

[27] Hester Flikweert

Well spacing: a critical design parameter in multi-well ASR systems

[56] Ole Neijenhuis

Ondergrondse waterberging – van regionale kansenkaart tot praktijktoepassing

[60] Tom Bastiaan

Towards improved evaluation of maintenance in MAR infiltration ponds: combining groundwater flux monitoring and environmental tracers

❖ **Session 2 – Regional Hydrogeology & System Characterisation - Room B1**

Session chairs/moderators: Victor Bense & Yvonne Schavemakers

[32] Rogier van der Velde

Hydrogeology around the Vitens abstraction site Eemdijk characterized using temperature-depth profiles

[23] Feifei Cao

Assessment of groundwater level trends in the Netherlands based on in-situ monitoring data

[49] Willem Zaadnoordijk

H3O-plus: Assessment of cross border groundwater in the German, Flemish and Dutch Roer Valley Graben

[3] Erik Simmelink

BRO as the Data Backbone for Future Proof Dutch Groundwater Management

❖ **Session 3 – Climate Change, Drought & Extremes - Room B6**

Session chairs/moderators: Tibor Stigter & Boris van Breukelen

[6] Abedulla Elsaïdy

A Machine Learning Framework for Groundwater Drought Detection in Mediterranean Basins

[77] Jorge Eduardo Vega Briones

Assessing Long-Term Groundwater Drought Trends in Limburg

[82] Muhammad Haris Ali

Drought Propagation and Sustainable Groundwater Extraction in a Sandy Catchment of the Netherlands

[75] Syed M.T. Mustafa

Hydrological Connectivity During Droughts and Floods in Data-scarce Arid Transboundary River Basins

11:20 – 11:40 | Coffee Break

11:50 – 12:50 | Block 2 ORAL PARALLEL SESSIONS

❖ **Session 4 – Governance, Policy & Societal Challenges - Room B1**

Session chairs/moderators: Arjen Oord & Tibor Stigter

[17] Myrthe Leijnse

Evaluating the impact of water policies on groundwater resources in major water scarcity hotspots

[25] Alex López Alberola

Navigating adaptation: The everyday governance of water and innovation by street-level bureaucrats

[12] Roelof Stuurman

Hydrogeological detective work: integrating groundwater–surface water system analysis in US urban climate adaptation

[29] Dimmie Hendriks

Challenges and solutions of Dutch groundwater systems: a national perspective

❖ **Session 5 - Ecohydrology & Groundwater–Surface Water Interactions – Room B6**

Session chairs/moderators: Andrew Pearson & Thomas Sweijen

[47] Mijal Baron Zagal

Monitoring pollution drivers in a highly mineralized area: the role of groundwater–surface water interactions as pathways for contamination

[28] Eva Schoonderwoerd

Hydrological buffer zones for hydrological restoration of groundwater dependent ecosystems in the Dutch sandy region

[24] Marjolein van Huijgevoort

Project RECHARGE: Towards Accurate Groundwater Recharge Estimates in Forested Areas

❖ **Session 6– Groundwater Quality: Contaminants, Impacts & Risks – Auditorium A1**

Session chairs/moderators: Boris van Breukelen & Gerhard Winters

[81] Stijn Theodorus Wilhelmus Beernink

The thermal impact of High Temperature Aquifer Thermal Energy Storage (HT-ATES) systems on overlying aquifers for varying hydrogeological conditions

[22] Pejman Shoeibi Omrani

On the potential of artificial intelligence for 3D-4D groundwater quality mapping

[42] Veerle Troelstra

Multi-exponential Retention of Pathogens during Subsurface Transport

[30] Gilian Schout

Chemical and microbiological groundwater impact of high temperature ATES: insights from in situ monitoring

12:50 – 14:00 | Lunch Break + POSTERS

14:00 – 14:30 Dedicated POSTER SESSION | Session 7 (lobby)

14:40 – 15:55

❖ **Session 8 – Groundwater Modelling & Digital Methods - Room B1**

Session chairs/moderators: Reynold Chow & Victor Bense

[38] Christopher Wittmann

How subsurface representation affects the modelled performance of Nature-based Solutions in shallow groundwater systems

[63] Marylidia Villagrán Marroquín

Comparing Hydrological Models to Evaluate Adjustable Weirs for Groundwater Management in Belgium

[64] Felipe José García Grez

Enhancing conjunctive surface and groundwater management by using a simulation and optimization model and a stochastic weather generation

[50] Mostafa Gomaa Daoud

Unravelling groundwater's role in the soil–plant–atmosphere continuum at three Dutch sites using an integrated STEMMUS-SCOPE–MODFLOW 6 ecohydrological framework

[5] Laxmi Chaulagain

Anthropogenic impacts on phreatic groundwater levels during the past 7000 years: A modelling study in the sandy regions of the Netherlands

❖ **Session 9 – Coastal Groundwater & Salinisation - Auditorium A1**

Session chairs/moderators: Gerhard Winters & Thomas Sweijen

[16] Perry G.B. de Louw

The impact of 'ontpoldering' on groundwater systems: monitoring effects of a local sea level rise

[67] Boris M. van Breukelen

Chemical hydrogeology of freshened groundwater offshore New England

[34] Teun van Dooren

Increasing freshwater extractability in coastal aquifers through brackish groundwater extraction

[80] Guilherme E H Nogueira

Advancing AI-based data mining and 3D interpolation for groundwater salinity

[33] Joost Delsman

Advancing Large-Scale Coastal Aquifer Simulation Using MODFLOW 6 and iMOD-Python: The Kustmodel Vlaanderen

16:10 – 16:55 | Plenary & Closing Session

- **Keynote speaker 2 – Prof. Marijke Huysmans**
Communicating groundwater: From science to policy
- Closing remarks by IAH Board / Organizers
- CONGRESS GROUP PHOTO

17:00 – 18:00 | Networking Drinks (Reception)

- Informal drinks and bites at IHE Lobby/reception area

