

# Program Nationaal Congres Grondwater

## June 11<sup>th</sup>, 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: Vincent Post & 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

