



MORNING

08:00-09:00	Opening Ceremony
09:00-09:30	Keynote: Xiao-Wei Jiang
09:30-10:00	Keynote: John Molson
10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 5.3 — Progressive advances in urban hydrogeological processes Part I Chairs: Jane Dottridge, Klara Žagar 10:30-10:45 · LID 885 · DISTINGUISHED LECTURER La Vigna, Francesco Revealing Rome’s hidden waters: innovation and urban hydrogeology in CARG Thematic Sheet No. 374 10:45-11:00 · LID 619 Batelaan, Okke Conceptual uncertainty: the elephant in the room 11:00-11:15 · LID 464 Di Curzio, Diego Transient time series analysis to identify anomalous aquifer recharge in the Shenzhen Megacity, China 11:15-11:30 · LID 598 Schirmer, Mario Changes in groundwater recharge under urban development: an increase in quantity is the rule 11:30-11:45 · LID 290 Hajizadeh Javaran, Mohammad Reza 3D framework for integrated urban groundwater management 11:45-12:00 · LID 882 Moraru, Irina Integrated urban groundwater modelling for sustainable subsurface planning: Tei area, Bucharest case study 12:00-12:15 · LID 227 Hastreiter, Nele Warming up the subsurface: how buildings shape underground temperatures in changing urban environments 12:15-12:30 · LID 301 Egidio, Elena Assessing and comparing subsurface urban heat island intensity across European cities: towards a harmonised framework
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:30-14:00	Keynote: Miklós Antics
14:00-14:30	Keynote: Tom Gleeson
14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:45	Session 5.3 — Progressive advances in urban hydrogeological processes Part II Chairs: Jane Dottridge, Francesco La Vigna 14:45-15:00 · LID 382 Dohmwirth, Verena Subsurface thermal patterns 15:00-15:15 · LID 302 Hirsch, Florian Groundwater reservoirs as central components of a sponge city: basic principles, concepts and new approaches 15:15-15:30 · LID 358 Jehanno, Lucas Characterization of uncontrolled groundwater drainage by sewer network in an urban catchment, using monitoring data and modelling: a case study in a chalk aquifer (northern France) 15:30-15:45 · LID 845 Ahmed, Kazi Matin Uddin Transformation of Gazipur from agricultural hub to industrial-urban hotspot and consequential adverse impacts on underlying groundwater
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:30	Session 5.3 — Progressive advances in urban hydrogeological processes Part III Chairs: Klara Žagar, Radu Gogu 16:45-17:00 · LID 829 Wang, Jianxiu New-stage groundwater recharge strategy optimization to control land subsidence in Shanghai 17:00-17:15 · LID 682 Maldaner, Carlos Fiber optic distributed temperature sensing deployment scenarios for high-resolution hydrogeologic characterization and monitoring 17:15-17:30 · LID 332 Taucare, Matias Hydrogeochemical responses to urbanisation in an estuarine aquifer: insights from Río Valdivia Estuary (southern Chile) 17:30-17:45 · LID 1001 Aceves Padilla, Danael Urban growth and groundwater recharge decline in Monterrey 17:45-18:00 · LID 752 Freitas, Livia Looking at the micro level to address macro nitrate contamination problems in the Bauru Aquifer System (Brazil) 18:00-18:15 · LID 511 Makahane, Rendani Assessing shallow groundwater occurrence in Lebowa Granite Suite: Winterveld, North West, South Africa 18:15-18:30 · LID 22 Ding, Zhenyu The pollutants distribution profiles and health risks of groundwater and soil around the waste landfills: a study of 12 waste landfills in Guangxi Province, China
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 6.2 — Advancing socio-hydrogeology: bridging groundwater science, social systems, and decision-making Part I Chairs: Viviana Re, Xander Huggins 10:30-10:45 · LID 49 · DISTINGUISHED LECTURER Adams, Shafick Groundwater as a socio-hydrogeological system: lessons from community-led multiple-use water services in rural South Africa 10:45-11:00 · LID 447 Black, Alastair When groundwater models leave the modeller: evidence, precaution and decision 11:00-11:15 · LID 621 Zambelli, Barbara Microplastics in groundwater: exploring the risk perception of domestic water users in Italy 11:15-11:30 · LID 472 Plagnes, Valérie From hydrogeology to perception: a participatory framework for co-producing water knowledge in a risk-prone mountain territory 11:30-11:45 · LID 399 Lee, Shih-Yao Participatory groundwater management in a subsidence-prone region: from focus groups to scenario workshops in Yunlin, Taiwan 11:45-12:00 · LID 188 Cuthbert, Mark What is groundwater? Finding a way back to the source of a modern abstraction 12:00-12:15 · LID 238 Erostate, Mélanie 20,000 years underground, today in your glass: turning groundwater age into a public awareness movement in southwest France 12:15-12:30 · LID 70 Gleeson, Tom Groundwater connected art: practicing arts-based research to enrich how hydrogeology engages people, place and other disciplines
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:30	Session 6.2 — Advancing socio-hydrogeology: bridging groundwater science, social systems, and decision-making Part II Chairs: Viviana Re, Xander Huggins 14:45-15:00 · LID 415 Moreno, Miguel Drought in the Central American Dry Corridor: a comparative regionalism perspective on impacts and the need for transboundary groundwater-based solutions 15:00-15:15 · LID 338 Guzman-Rojo, Mónica Design principles and early evaluation of science communication resources for post-wildfire groundwater resilience in Bolivia: a pilot case in the Chiquitania lowlands 15:15-15:30 · LID 326 Zipper, Sam Groundwater stress and emerging solutions in the U.S. High Plains Aquifer
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:45	Session 2.2 — Mining Impacts on groundwater systems: hydrogeology, geochemistry and sustainable management Complete session Chairs: Zsófia Wáczek 16:45-17:00 · LID 884 · DISTINGUISHED LECTURER Conrad, Julian Steenkampskraal Rare Earths Mine: Baseline hydrogeological monitoring and stakeholder engagement 17:00-17:15 · LID 691 Kaczynski, Bartosz Evolution of hydrogeological conceptual models through feasibility stages and their influence on mining project outcomes 17:15-17:30 · LID 306 van der Keur, Peter Addressing the groundwater gap: harmonizing UNFC E-axis evaluations for mining projects 17:30-17:45 · LID 877 Suescun, Luis How management options change data worth: monitoring design for adaptive post-mining strategies 17:45-18:00 · LID 799 Gonzales, Edgard Integrated geophysical characterization of aquifer depressurization and karstic subsidence induced by open-pit mining in southern Peru 18:00-18:15 · LID 191 Puelles-Ramirez, Wilfredo Bridging numerical modeling and field tracer testing in the unsaturated zone of decommissioned mining sites 18:15-18:30 · LID 373 Zaniboni, Linda Long-term environmental impacts of historical gold mining on soil and water: a comparison between Italian and Portuguese case studies 18:30-18:45 · LID 107 Tiwari, Ashwani Kumar Metal contamination in groundwater in Umaria Coalfield of Madhya Pradesh, India
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 1.3 — Processes, tools and advancements in coastal hydrogeology Part I <i>Chairs: Rezwana Binte Delwar, Stephan L. Seibert, Nils Moosdorf, Maurizio Polemio</i> 10:30-10:45 · LID 284 · DISTINGUISHED LECTURER van Breukelen, Boris Chemical hydrogeology of freshened groundwater offshore New England 10:45-11:00 · LID 538 Parker, Aqeela From data to decision: conceptualising coastal alluvial aquifers for sustainable groundwater abstraction in Namibia 11:00-11:15 · LID 560 Oude Essink, Gualbert Effects of sea-level rise on fresh groundwater resources in coastal dune areas – case study in the Netherlands 11:15-11:30 · LID 796 Mohamed, Ali Geoelectrical and isotopic constraints on seawater intrusion: a case study from Ras Sudr, western-central Sinai 11:30-11:45 · LID 45 Mostafa, Mostafa F. Machine learning-assisted hydrochemical analysis of seawater intrusion in karst aquifers: insights from Apulia, SE Italy 11:45-12:00 · LID 376 Kurylyk, Barret Linking analytical solutions and geospatial modeling to map patterns of aquifer vulnerability to saltwater intrusion and coastal groundwater flooding 12:00-12:15 · LID 87 Lin, Yuhang Nonlinear response of coastal unconfined aquifers to irregular semidiurnal tides: field experiments and numerical modeling 12:15-12:30 · LID 924 Cianflone, Giuseppe Hydrogeology of the Gioia Tauro Coastal Plain (southern Italy): integrating baseline knowledge and numerical modeling for groundwater management under global change
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:45	Session 1.3 — Processes, tools and advancements in coastal hydrogeology Part II <i>Chairs: Rezwana Binte Delwar, Stephan L. Seibert, Nils Moosdorf, Maurizio Polemio</i> 16:45-17:00 · LID 164 Uribe Jaramillo, Valentina Coastal processes and groundwater response: long-term climate change impacts on a sandy barrier island 17:00-17:15 · LID 15 Tobon, Nidia Assessing shallow aquifer heterogeneity with geophysical and numerical modelling in an atoll island setting 17:15-17:30 · LID 868 Van Hanja, Jonathan Variability in submarine groundwater discharge estimates: a comparative review from the Campo de Cartagena–Mar Menor system (Spain) 17:30-17:45 · LID 574 Guo, Liming A probabilistic framework for joint saline and geological model generation with geophysical and petrophysical constraints 17:45-18:00 · LID 318 Volpe, Angela Assessment of sea impact on a Mediterranean coastal water system and its evolution over time 18:00-18:15 · LID 84 Wu, Rui Boundary condition improvements for tidally forced coastal unconfined aquifer models and analysis for solute transport mechanisms 18:15-18:30 · LID 89 Lipparini, Lorenzo Unconventional groundwater exploration in Sicily (Italy) 18:30-18:45 · LID 461 Tijani, Moshood Integrated electrical resistivity and hydrochemical assessments of saltwater intrusion in coastal aquifers of southwestern Nigeria
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 6.1 — Groundwater for water security and resilience in low- and middle-income countries (LMICs) Part I Chairs: Kirsty Upton, Tichazvipedza Fadzai Munodawafa 10:30-10:45 · LID 543 Adamson, James Groundwater mapping interrupted: lessons from two contrasting hydrogeologic regions in Haiti 10:45-11:00 · LID 467 Petre, Marie-Amélie Governance pathways for transboundary groundwater cooperation: lessons from Zambia 11:00-11:15 · LID 99 Dodd, Carla The thirst for data – establishing a robust O- and H-isotope record for a water-stressed region in the southern hemisphere 11:15-11:30 · LID 161 Rakotondrabe, Miora Harivony Hydrogeological monitoring of water resources during Kéré drought events in Androy, southern Madagascar (1991 and 2015) 11:30-11:45 · LID 667 Holliday, Laura Hydrogeological typologies of the aquifer systems underlying Lagos State, Nigeria 11:45-12:00 · LID 620 Händel, Falk Numerical water balance and groundwater modeling as part of regional MAR feasibility assessment in Dollow, Somalia 12:00-12:15 · LID 330 van den Berg, Harmen Hydrogeology beyond the textbook – verifying deep aquifer potential in arid Somalia 12:15-12:30 · LID 287 Mondal, Mijanur Integrating isotopes, hydrogeochemistry, and the water-society nexus to evaluate coastal aquifer salinization and water security under hydroclimatic and socioeconomic stress: insights from the Indian Sundarbans
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:45	Session 6.1 — Groundwater for water security and resilience in low- and middle-income countries (LMICs) Part II Chairs: Kirsty Upton, Tichazvipedza Fadzai Munodawafa 14:45-15:00 · LID 823 Evans, Paul Groundwater for water security in the agro-pastoral LMIC setting of northern Côte d'Ivoire 15:00-15:15 · LID 404 Mishra, Pratibha Are the groundwater levels recovering in the Indo-Gangetic Basin? 15:15-15:30 · LID 905 Ewers, Lorenz Beyond infrastructure: structuring social engagement for sustainable MAR in fragile contexts 15:30-15:45 · LID 824 Koshliakova, Tetiana Groundwater depletion following the destruction of the Kakhovka Dam (Ukraine): hydrogeological consequences and emerging risks
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:45	Session 3.8 — Aligning Practice and Policy: Building Groundwater Secure Systems through Conjunctive Management and Law Complete session Chairs: Shammy Puri, Ricardo Hirata 16:45-17:00 · LID 552 · DISTINGUISHED LECTURER Puri, Shammy Overturning “water bankruptcy”: transforming spontaneous to planned conjunctive management 17:00-17:15 · LID 553 Benedicto, Daniela Eswatini’s Water Act Reform 2026 – towards strengthened groundwater governance and conjunctive management 17:15-17:30 · LID 941 Lautze, Jonathan Second transboundary aquifer monitoring: pioneering a critical tool for conjunctive management of shared water 17:30-17:45 · LID 1 Eröss, Anita A multi-tracer approach to demonstrate groundwater inflows to a soda lake experiencing water-level decline in Hungary 17:45-18:00 · LID 534 Tóth, György Multipurpose utilization of the PANNON XL hydrogeological models used for predictive managements in the Hungarian parts of the Pannonian Basin 18:00-18:15 · LID 748 Piasecka, Agnieszka The process of establishing protected areas of the strategic groundwater resources – Major Groundwater Basins 18:15-18:30 · LID 840 Alkaryani, Belkasem Transboundary aquifer systems in Libya: a comprehensive review of hydrogeology, management, and cooperation frameworks 18:30-18:45 · LID 909 Baba Sy, Mohamedou Integrated transboundary aquifer management in the Sahara-Sahel: lessons from ITTAS and SMAS
19:00-20:00	Coastal Groundwater Network
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 2.1 — Groundwater-dependent geothermal systems Part I <i>Chairs: Ladislaus Rybach, János Szanyi, Ábel Markó</i> 10:30-10:45 · LID 617 · DISTINGUISHED LECTURER Rybach, Ladislaus How to generate power from deep geothermal resources for the growing electricity demand in the future? 10:45-11:00 · LID 119 Bofill, Lucas Overlooked sedimentary heterogeneity as a control on advective groundwater transport: insights from Triassic sandstones, eastern France 11:00-11:15 · LID 176 Budai, Soma Sedimentary architecture of the Mezőberény geothermal aquifer and its control on doublet performance (SE Hungary) 11:15-11:30 · LID 153 Pantopoulos, Georgios Quantifying the geothermal impact of sedimentary heterogeneity through stochastic reservoir modeling: Sergnano Gravel Formation (late Messinian), Po Basin, NW Italy 11:30-11:45 · LID 939 Madarász, Tamás Co-production of geothermal energy and Critical Raw Materials (CRM) 11:45-12:00 · LID 473 Velásquez-Parra, Andrés Aquifer reaction to high-temperature energy storage as a key for a sustainable energy transition 12:00-12:15 · LID 244 Vandelois, Guillaume Assessing the energy storage potential of abandoned longwall coal mines: a coupled hydro-thermo-geomechanical approach in Wallonia (Belgium) 12:15-12:30 · LID 565 Markó, Ábel Geothermal reinjection potential – a parameter to evaluate injection possibilities in siliciclastic aquifers
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:45	Roundtable discussion 1: The Groundwater Debate: Open Issues in Hydrogeology
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:30	Session 2.1 — Groundwater-dependent geothermal systems Part II <i>Chairs: Ladislaus Rybach, János Szanyi, Ábel Markó</i> 16:45-17:00 · LID 846 Manna, Ferdinando Modern characterization of fractured dolostone aquifers for safe low-temperature geothermal deployment 17:00-17:15 · LID 463 Njeru, Rita Mwendia Hydro-mechanical coupling and pore-scale clogging controls on injectivity decline in a geothermal sandstone aquifer 17:15-17:30 · LID 986 Pál, Lénárd Geo-Log Ltd.: 35 years of borehole geophysics, well logging, and geological exploration 17:30-17:45 · LID 1045 Tiszavári, Sándor Advanced drilling technologies and a high capacity hybrid geothermal project 17:45-18:00 · LID 129 Rman, Nina Towards a plan for managing abandoned wells in Slovenia – experiences and surprises 18:00-18:15 · LID 985 Szlukovinyi, Áron Geo-Log’s activities in thermal water wells in Hungary and the Carpathian Basin 18:15-18:30 · LID 581 Glavanov, Gergő Shallow geothermal energy utilization for more sustainable university campus: a case study from ELTE, Budapest
19:00-20:00	Early Career Hydrogeologists’ Network (ECHN) Annual General Meeting
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 1.4 — Evolving from Tóth’s gravitational systems of groundwater flow to integrated basin-scale fluid systems for addressing 21st-century challenges Part I Chairs: Hanneke Verweij, Szilvia Simon 10:30-10:45 · LID 465 · DISTINGUISHED LECTURER Post, Vincent Preservation of connate seawater in deep sedimentary aquifers: a case study from the Netherlands 10:45-11:00 · LID 329 Gutierrez, Alexis Hydrogeological settings of the Yaque del Sur Basin – knowledge update 11:00-11:15 · LID 151 Han, Peng-Fei Three-dimensional interbasin groundwater flow toward a groundwater-fed stream: identification, partition, and quantification 11:15-11:30 · LID 707 Zhang, Zhi-Yuan Comparative analysis of different methods for delineating three-dimensional groundwater flow systems 11:30-11:45 · LID 872 Parker, Beth Informing groundwater flow systems from an aquitard perspective 11:45-12:00 · LID 788 Xiao, Yong Hierarchical groundwater flow systems and their interactions with the river-lake system in dry closed basins 12:00-12:15 · LID 313 Frem, Michel Data-driven conceptual modelling of complex highland-lowland hydrological interactions in the Ethiopian Rift Valley 12:15-12:30 · LID 167 Czauner, Brigitta Tracking regional-scale aquitard permeability using fully coupled groundwater flow models in the Central Pannonian Basin
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:30	Session 1.4 — Evolving from Tóth’s gravitational systems of groundwater flow to integrated basin-scale fluid systems for addressing 21st-century challenges Part II Chairs: Judit Mádl-Szőnyi, John Molson 14:45-15:00 · LID 857 Ferguson, Grant Landscape evolution and hydrogeologic change 15:00-15:15 · LID 826 dos Santos, Carolina Fernanda Where rivers depend on groundwater: mapping baseflow dynamics across São Paulo State, Brazil 15:15-15:30 · LID 518 Szymkiewicz, Adam A framework for integrating models of contaminant transport in vadose zone and groundwater
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:15	Special Session — Special Session for József Tóth Complete session Chairs: Judit Mádl-Szőnyi, Brigitta Czauner 16:45-16:55 · LID 1048 Mádl-Szőnyi, Judit Before Me Stood the Living Genius of Hydrogeology, Joe Tóth – A Personal Reflection 16:55-17:05 · LID 1049 Verweij, Hanneke Prof. Joe Tóth’s Inspiring Role in the Development of Research into Groundwater Systems on Geological Timescales in the Netherlands since the Late 1980s 17:05-17:15 · LID 1050 Zheng, Chunmiao How József Tóth’s Theory of Regional Groundwater Flow Systems Helped Launch My Career 17:15-17:25 · LID 1051 Rybach, Ladislaus The “Hungarian Hydrogeology Mafia” 17:25-17:35 · LID 1056 Czauner, Brigitta From basin hydraulics to personal memories: Remembering József Tóth 17:35-17:45 · LID 1052 Currell, Matthew The 2013 Regional Groundwater Flow Symposium and Prof. Tóth’s 80th Birthday Celebration 17:45-17:55 · LID 1053 Tóth, Ádám What Does It Mean to Stand in the Landscape Where a Scientific Idea Was Born? 17:55-18:05 · LID 1054 Batelaan, Okke Celebrating József (Joe) Tóth (1933–2026) 18:05-18:15 · LID 1055 Szanyi, János The Eternal Secret of Jóska
19:00-20:00	IAH Regional Groundwater Flow Commission
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

10:00-10:30	NOT IN THIS ROOM Coffee break & Group photo 1
10:30-12:30	Session 6.5 — Role of hydrogeologists in geological surveys — their work, impact, and benefits to society Complete session Chairs: Bartolomé Andreo Navarro, Laurence Gourcy, Zsóka Szabó 10:30-10:45 · LID 352 Broda, Stefan Pan-European groundwater assessment enabled by the European Groundwater Monitoring (EUGM) Database 10:45-11:00 · LID 764 de la Losa, Almudena Operational hydrogeology in extreme events: contributions from the disaster and emergency advisory group of the Geological and Mining Institute of Spain (IGME-CSIC) 11:00-11:15 · LID 651 Gourcy, Laurence Water resources expert group of the Geological Surveys of Europe – role and activities 11:15-11:30 · LID 664 Kuczynska, Anna Hydrogeological interventions – the role of the Polish Geological Survey in supporting governmental institutions, local governments and society in field of hydrogeology 11:30-11:45 · LID 578 Püspöki, Zoltán Geological mapping of unconfined Quaternary fluvial aquifers aided by log-facies correlation and climato-stratigraphic methods 11:45-12:00 · LID 154 Gourcy, Laurence Construction of groundwater vulnerability maps in a river basin with few data on groundwater and pressure in the Dominican Republic 12:00-12:15 · LID 763 Guardiola Albert, Carolina Hydrogeologists at the Spanish science-policy interface 12:15-12:30 · LID 839 Hinsby, Klaus EuroGeoSurveys: bridging geoscience and policy for groundwater and subsurface integrated spatial planning in a changing world
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-15:45	Session 3.6 — Approaches for climate-resilient and sustainable water planning Part I Chairs: Sorab Panday, Bill Mok 14:45-15:00 · LID 275 · DISTINGUISHED LECTURER Sbarbati, Chiara A game-theoretical approach to sustainable groundwater management: application to a heavily impacted volcanic aquifer 15:00-15:15 · LID 564 Buela, Leunell Chris Adaptive quantification and subsurface monitoring for advancing resilient agricultural technologies (AQUASmart) 15:15-15:30 · LID 305 Montoro-Paredes, Christian Sustainability of managed wetlands in semi-arid agricultural coastal areas transitioning from traditional to modern irrigation practices 15:30-15:45 · LID 441 Han, Dongmei RRV-based assessment of groundwater extraction sustainability in an over-exploited Piedmont Plain
15:45-16:45	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break; opening of the Art Exhibitions
16:45-18:45	Session 3.6 — Approaches for climate-resilient and sustainable water planning Part II Chairs: Sorab Panday, Bill Mok 16:45-17:00 · LID 67 Chilton, John Long datasets for improved understanding, management and protection of groundwater 17:00-17:15 · LID 859 Dinagde, Tolossa Dabi Assessing groundwater pumping energy consumption through spatially distributed numerical groundwater flow modelling 17:15-17:30 · LID 947 Igbinedion Joseph, Jonathan The dynamic link between economic development and freshwater withdrawal: a global decomposition for country income groups and economic sectors 17:30-17:45 · LID 488 Roberts, Josh Evaluating environmental impacts from abstraction shutdown using the Source Impact Library in UK regional groundwater models 17:45-18:00 · LID 335 Marcucci, Victor Natural asset management framework for aquifers in the Regional Municipality of Peel, Canada 18:00-18:15 · LID 400 Grabert, Vicki Kretsinger Watershed and ecosystem resiliency in Napa County, California: adaptation, collaboration, and conservation as a way of life 18:15-18:30 · LID 952 Huttner, Philipp Trabak, Zoltán Integrated water balance modeling – sustainable and climate-adapted water management in the Borken water catchment area 18:30-18:45 · LID 50 Liu, Dedi Understanding the roles of climate change, land use and land cover change and water diversion project in modulating water- and carbon-use efficiency in Han River Basin
20:00-22:00	NOT IN THIS ROOM Social event hosted by ECHN



MORNING

08:30-09:00	Keynote: Chunmiao Zheng
09:00-09:30	Keynote: Bridget R. Scanlon
09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 4.1 — Big data and machine learning applications in hydrogeology Part I Chairs: Katherine Knierim, Paul Stackelberg, Mason Stahl, Athena Nghiem 10:00-10:15 · LID 136 · DISTINGUISHED LECTURER Podgorski, Joel Creating the first global hazard map of manganese contamination of groundwater 10:15-10:30 · LID 354 Abdelrahman, Abdelrahman Ahmed Ali Deep learning-driven 3D hydrogeological modeling and transient groundwater flow modeling in complex, heterogeneous multi-aquifer systems 10:30-10:45 · LID 448 Fahs, Marwan Physics-Informed Neural Networks for modeling groundwater flow 10:45-11:00 · LID 531 Mansouri Bajgiran, Maryam Application of Physics-Informed Neural Networks (PINNs) to seawater intrusion modeling in data-limited environments 11:00-11:15 · LID 204 Corthier, Claire Overcoming uncertainty: machine learning and probabilistic modelling for groundwater exploration in data-scarce areas 11:15-11:30 · LID 380 Maniero, Pietro Integrating monitoring network data and machine learning for groundwater level prediction: a case study in the Euganean Geothermal Field, Veneto Region, NE Italy 11:30-11:45 · LID 684 Inoue, Shun Groundwater-level prediction in a limestone aquifer with a subsurface dam using tree-based ensemble learning 11:45-12:00 · LID 639 Loupos, Konstantinos Explainable assessment of lithium potential in geothermal reservoirs using AI and decision tree models 12:00-12:15 · LID 674 Peeters, Luk Creating large AI training datasets for hydrogeologic generative deep-learning models 12:15-12:30 · LID 557 Nghiem, Athena Generalizing groundwater geochemistry with machine learning: using new methods on a long-standing arsenic problem
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:30-14:30	Plenary Session 1: Groundwater at the Heart of the 2026 UN Water Conference: IAH Positions and UN Perspectives
14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:00	Session 4.1 — Big data and machine learning applications in hydrogeology Part II Chairs: Katherine Knierim, Paul Stackelberg, Mason Stahl, Athena Nghiem 14:45-15:00 · LID 174 Tseng, Hua-Ting A hybrid geostatistical-machine learning framework for three-dimensional hydrogeological structure estimation 15:00-15:15 · LID 888 Živanović, Vladimir Hydrochemical clustering and machine learning mapping for urban groundwater suitability and risk assessment in Belgrade 15:15-15:30 · LID 683 Kang, Hyun-Ji Machine learning diagnosis of baseflow index discrepancy between digital filters and hydrochemical tracers across South Korea 15:30-15:45 · LID 261 Stackelberg, Paul Predicting the age of baseflow across the conterminous United States with process-based and random forest modeling 15:45-16:00 · LID 184 Knierim, Katherine Random forest predictions of groundwater salinity across the United States 16:00-16:15 · LID 562 Parker, Timothy K California’s regional-scale airborne electromagnetic surveys for mapping hydrogeologic features and managed aquifer recharge potential for adaptation to drying climate 16:15-16:30 · LID 509 Nxumalo, Gift Sipiwe Soil water content prediction for precision irrigation in maize using phenology-aware remote sensing 16:30-16:45 · LID 205 Jeong, Dohwan A real-time monitoring and prediction study on the establishment of an AI-based drinking groundwater quality and quantity management system 16:45-17:00 · LID 906 Mahlknecht, Jürgen Nationwide machine-learning prediction of arsenic, fluoride, and their joint occurrence in Mexican groundwater: implications for drinking-water exposure and risk management
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break
18:15-19:45	IAH Annual General Meeting



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 4.3 — Advances in modeling groundwater dynamics from regional to global scales Part I Chairs: Chunmiao Zheng, Laura Condon, Stefan Kollet 10:00-10:15 · LID 668 · DISTINGUISHED LECTURER Maxwell, Reed Advancing integrated continental-scale hydrology through democratized data and ML-accelerated modeling 10:15-10:30 · LID 901 Frampton, Andrew Seasonal freeze-thaw controls on groundwater flow and solute transport in an Arctic permafrost hillslope 10:30-10:45 · LID 524 Molson, John Numerical modelling of groundwater flow and permafrost evolution over glacial time scales in the context of a deep geological repository for nuclear waste 10:45-11:00 · LID 183 Erdocio, Sébastien Enhancements in large-scale subsurface flow modeling 11:00-11:15 · LID 705 Batelaan, Okke From conceptual to large-scale integrated hydrological modelling 11:15-11:30 · LID 676 Hughes, Andrew Continental to global-scale modelling to advance the inclusion of groundwater processes 11:30-11:45 · LID 915 Fahad, Muhammad Enabling kilometer-scale global groundwater modeling with performance-portable ParFlow 11:45-12:00 · LID 793 Scanlon, Bridget R. Advancing global aquifer mapping for Earth System Modeling, satellite interpretation, and groundwater sustainability assessments 12:00-12:15 · LID 724 Macdonald, Alan What groundwater processes matter? Developing appropriate groundwater typologies for Earth System Models 12:15-12:30 · LID 201 Bishop, Caleb 3D chronostratigraphic mapping of the Murray Basin and Australia’s groundwater systems
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:00	Session 4.3 — Advances in modeling groundwater dynamics from regional to global scales Part II Chairs: Stefan Kollet, Chunmiao Zheng, Laura Condon 14:45-15:00 · LID 304 Iván, Veronika Integrated near-surface geophysics for characterizing river-aquifer interactions in a transboundary aquifer: the Vipava/Vipacco River, Soča/Isonzo Basin (Slovenia-Italy) 15:00-15:15 · LID 670 Zolezzi-Lopez, Jose Spatio-temporal changes of river-aquifer interactions in north-central Bangladesh 15:15-15:30 · LID 417 Egli, Nina Geological and hydrogeological modeling of the Red River Delta to understand the origin of dissolved arsenic 15:30-15:45 · LID 34 Panthi, Jeeban Integrating geophysics and numerical modeling to predict groundwater storage change in region with thick vadose zone 15:45-16:00 · LID 506 Franco, Federico Emanuel Diagnosing groundwater storage dynamics through a Budyko-based framework: a comparative analysis of Alpine and Mediterranean catchments 16:00-16:15 · LID 241 Hinton, Rebekah Collaborative groundwater modelling for northern Uganda 16:15-16:30 · LID 762 Hughes, Joseph Groundwater pumpage-induced streamflow capture in the continental United States 16:30-16:45 · LID 681 Markovich, Katherine H. Exploring the promise of InSAR ground deformation in regional groundwater simulation 16:45-17:00 · LID 486 Van Putte, Niels Continuous in situ groundwater flux monitoring in dynamic aquifer systems: validation of the iFLUX sensor
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:15	Session 1.7 — Hydrogeochemical and isotopic fingerprinting of groundwater systems: from water-rock interaction to human impacts Part I <i>Chairs: Veysel Süleyman Yavuz, Ashwani Kumar Tiwari</i> 10:00-10:15 · LID 718 Abadie, Benoit Understanding the role of compartmentalization in stream response to major precipitation events in Central European upland catchments: the Ahr Valley, Germany 10:15-10:30 · LID 95 Guo, Yongli Hydrogeological characteristics and hydrochemical environment of a karst aquifer system are determined by the presence of major ions, trace elements, and environmental isotopes 10:30-10:45 · LID 307 Carreira, Paula Discriminating seawater intrusion from other salinization sources in the Algarve Sedimentary Basin: insights from environmental isotopes 10:45-11:00 · LID 325 Vasileiou, Eleni Tracing anthropogenic versus geogenic sources of groundwater pollution using multi-isotope fingerprints: the case study of the Sarigkiol Basin, Western Macedonia 11:00-11:15 · LID 892 Huang, Tianming Calcium and multi-isotope constraints on cation exchange in groundwater 11:15-11:30 · LID 842 Walter, Julien Hydrogeochemical mixing and deep fluid contributions in a Precambrian shield graben: a multi-isotope and noble gas approach 11:30-11:45 · LID 471 Porru, Maria Chiara Advancing knowledge for sustainable groundwater management in Sardinia: an integrated multi-isotopic approach 11:45-12:00 · LID 20 Eid, Mohamed Hamdy Integrated hydrogeological assessment for sustainable groundwater management in the Siwa Oasis, Egypt 12:00-12:15 · LID 166 Filippini, Maria Tracing recharge and flow redistribution in alluvial fans of the Northern Apennines (Italy): implications for sustainable groundwater abstraction
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:15	Session 1.7 — Hydrogeochemical and isotopic fingerprinting of groundwater systems: from water-rock interaction to human impacts Part II <i>Chairs: Veysel Süleyman Yavuz, Ashwani Kumar Tiwari</i> 14:45-15:00 · LID 875 Martinez, Virgilio Altitude-controlled recharge and groundwater flow patterns in a semi-arid Andean alluvial aquifer 15:00-15:15 · LID 482 Jarraya, Asala Natural and anthropogenic factors controlling groundwater mineralisation in semi-arid climates: the Zaghouan aquifer system (Tunisia) 15:15-15:30 · LID 699 Bidar Kahnamuei, Saeed Hydrogeological characterization of flow system feeding the Lake Hévíz by the application of natural tracers 15:30-15:45 · LID 186 Davies, Emma Tracing hydrological mixing and flow paths in precipitation, rivers, and groundwater of the Nepal Himalaya using seasonal $\delta^{18}\text{O}$ lapse rates and CFC-age dating. 15:45-16:00 · LID 321 Zechner, Eric Integrating hydrochemical, isotopic, gaseous, pharmaceutical, and eDNA tracers to detect active subrosion of intrastratal halite 16:00-16:15 · LID 654 Jiang, Xiaowei New mechanisms of hydrochemical evolution from Ca-Mg-HCO₃-dominated to Na-HCO₃-dominated groundwater: evidences from Ca and Mg isotopes 16:15-16:30 · LID 413 Cammaer, Chris The use of long-term monitoring data to delineate natural background levels for the assessment of groundwater contamination 16:30-16:45 · LID 127 Gürsoy, Sibel Melisa Assessment of salinity and geogenic fluoride and vanadium contamination of a deep aquifer system in northern Namibia 16:45-17:00 · LID 627 Richards, Joshua Evidence for variable sources of Na-Cl in groundwaters of northern Switzerland 17:00-17:15 · LID 30 Houben, Georg J. Potential trace metal release during chemolithotrophic denitrification – a comprehensive study of pyrites from northern German aquifers
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break
17:15-18:15	Commission on Groundwater and Climate Change



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 1.2 — Hydrogeology of karst and fractured systems: From field studies to quantitative characterization Part I <i>Chairs: Attila Kovács, Peter Malik, Zoran Stevanović, Arnauld Malard</i> 10:00-10:15 · LID 590 · DISTINGUISHED LECTURER Stevanović, Zoran Criteria for selecting the most important karst springs – output of the MIKAS Project 10:15-10:30 · LID 124 Baalousha, Husam From CT scans to flow models: enhancing aquifer characterization in complex bioturbated carbonates 10:30-10:45 · LID 103 Malard, Arnauld New tools for flow animation and conduit generation in karst aquifers using Visual KARSYS 10:45-11:00 · LID 33 Kordilla, Jannes openKARST: from detailed karst conduit dynamics to simplified hydraulic flow descriptions 11:00-11:15 · LID 938 Kovács, Attila Stochastic modelling of karst conduit networks informed by geological and hydrodynamic constraints 11:15-11:30 · LID 106 Mayaud, Cyril FloodWatch: a mobile application to monitor floods in karst areas 11:30-11:45 · LID 559 Achour, Farid Significance and origin of the very large regulating power of the Big Spring karst aquifer in Missouri (USA) 11:45-12:00 · LID 708 Ravbar, Nataša Assessing climate change impacts on mountain karst spring discharge using hydrological modelling and climate projections 12:00-12:15 · LID 694 Kogovšek, Blaž Concentration–discharge hysteresis to characterise recharge at karst springs: the Unica springs case study 12:15-12:30 · LID 913 Nicholson, Riley Analysis of streamflow data in a groundwater-dominated karst catchment demonstrates early signals of streamflow capture
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:15	Session 1.2 — Hydrogeology of karst and fractured systems: From field studies to quantitative characterization Part II <i>Chairs: Attila Kovács, Peter Malik, Zoran Stevanović, Arnauld Malard</i> 14:45-15:00 · LID 572 Mok, Chin Man Not forgotten in the back of the drawer – breathing new life into geophysical data for groundwater modeling 15:00-15:15 · LID 750 Balázs, László Muography: an effective geophysical tool for detecting fracture systems and cavities 15:15-15:30 · LID 738 De Luise, Serena Hydrogeological site characterization of pyroclastic soils: case studies from Campania (South Italy) 15:30-15:45 · LID 29 Zhou, Changsong Strontium enrichment patterns and source dynamics in karst underground river sediments: comparative case studies from Guizhou, China 15:45-16:00 · LID 792 Cunha de Paula, Lucas Daniel Karst aquifer dynamics: a multi-tracer approach combining ³H, ²²²Rn, ¹⁸O, and ²H with lumped-parameter modelling in Sete Lagoas, Minas Gerais, Brazil 16:00-16:15 · LID 115 Guo, Fang Ecological and hydrological effects of vegetation restoration in karst peak-cluster depression system 16:15-16:30 · LID 141 Villafane Pagan, Jobel Puerto Rico’s submarine groundwater discharge characterization: North Coast Limestone aquifer system 16:30-16:45 · LID 715 Fujieda, Kanako Influence of hydraulic conductivity distributions on solute transport in a karstic limestone aquifer 16:45-17:00 · LID 615 Malík, Peter Karstic spring Morské oko in Tornaľa, southern Slovakia: recharge area problem 17:00-17:15 · LID 420 Höpker, Sebastian New perspectives on recharge and water quality from integrated groundwater and cave monitoring on the raised coral atoll Niue
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break
17:15-18:15	IAH-Liaison with UN Activities (LUNA) Network



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 5.4 — Managed aquifer recharge for climate change adaptation Part I Chairs: Catalin Stefan, Rudy Rossetto, Daniela Benedicto van Dalen 10:00-10:15 · LID 62 · DISTINGUISHED LECTURER Pearson, Andy New highlights on MAR implementation worldwide from the 2026 update of the Managed Aquifer Recharge (MAR) Portal 10:15-10:30 · LID 222 Alam, Mohammad Faiz Assessment of small-scale managed aquifer recharge (MAR) in India 10:30-10:45 · LID 515 Baumann, Thomas Stormwater managed aquifer recharge in pre-alpine catchments 10:45-11:00 · LID 320 Meggiorin, Mara Managed aquifer recharge and volumetric water benefit accounting for sustainable water management in northeast Italy 11:00-11:15 · LID 229 Petitta, Marco Hydrogeological monitoring for the assessment of managed aquifer recharge (MAR) techniques: a case study in the Alban Hills region (Rocca Priora, Rome, Italy) 11:15-11:30 · LID 388 Montecinos, Claudia Medina From science to policy: an action plan to adopt agricultural managed aquifer recharge as a drought adaptation measure in Lombardy, Italy 11:30-11:45 · LID 25 Engelhardt, Irina Managed aquifer recharge in confined multi-layer aquifers: a methodological framework for drought-resilient water management 11:45-12:00 · LID 716 Prayag, Ankita Integrated hydrogeophysics and hydrogeological modelling to support managed aquifer recharge and climate-resilient groundwater supply 12:00-12:15 · LID 649 Stefan, Catalin Assessing the feasibility of MAR for climate-resilient water supply in humanitarian contexts: the case of Dollow, Somalia 12:15-12:30 · LID 811 Chen, Zhao An integrative approach focusing on MAR to increase the climate resilience of the water supply in the European city of Görlitz-Zgorzelec on the German-Polish border
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:00	Session 5.4 — Managed aquifer recharge for climate change adaptation Part II Chairs: Catalin Stefan, Rudy Rossetto, Daniela Benedicto van Dalen 14:45-15:00 · LID 57 Lee, Sang-II Groundwater dams as a strategy for water supply diversification: efforts in South Korea 15:00-15:15 · LID 333 Gutierrez, Alexis Enhancing water supply through MAR systems at Jijiga, Somali Region, Ethiopia 15:15-15:30 · LID 648 Matta, Jay Enhancing groundwater sustainability in northern Iraq: lessons from managed aquifer 15:30-15:45 · LID 139 Augustin, Lea Automated operation of a rural stormwater-based MAR scheme 15:45-16:00 · LID 540 Hartog, Niels Considerations for well design and operation of aquifer storage and recovery of fresh water in saline aquifers 16:00-16:15 · LID 297 Villagrán Marroquín, Marylidia Aquifer storage, transport and recovery for water reuse: a case study of the NATALIE project in Belgium 16:15-16:30 · LID 861 Benavides Höglund, Nikolas A combined Pastas and MODFLOW approach for characterizing groundwater recharge and MAR potential on Öland 16:30-16:45 · LID 525 Mamo, Julian Valley dams as in-channel MAR in Mediterranean intermittent rivers and ephemeral streams: monitoring recession and recharge in Malta 16:45-17:00 · LID 898 Valdes, Danièle RECHARGE project: opportunities and limits of NWRMs to promote groundwater recharge: toward a transdisciplinary co-constructed research-action
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break
17:15-18:15	Commission on Mineral and Thermal Waters



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 1.8 — Environmental tracers to investigate the anthropogenic impacts on groundwater Part I Chairs: Stephanie L. Musy, Brindha Karthikeyan 10:00-10:15 · LID 80 · DISTINGUISHED LECTURER Re, Viviana Multi-tracer assessment of nitrate contamination in urban aquifers: the case of Abuja FCT (Nigeria) 10:15-10:30 · LID 603 Cisternino, Andrea Multi-isotope tracers for investigating groundwater quality and biogeochemical processes at a landfill site 10:30-10:45 · LID 243 Meiselbach, Kai Characterisation of spatially and temporally varying surface water and groundwater interaction processes at a MAR site using environmental tracers 10:45-11:00 · LID 123 Van Limbergen, Bo Tackling high nitrate concentrations near a drinking water abstraction site through isotopic analysis and environmental stakeholder management 11:00-11:15 · LID 1029 Deák, József Tracking isotope and nitrate patterns of subsurface pathways in hilly catchments heavily affected by agriculture 11:15-11:30 · LID 245 Sangalli, Lorenzo Assessment of nitrogen-bearing compound sources in the Lomellina rice-paddy area through nitrogen and oxygen isotope analysis in the local phreatic aquifer 11:30-11:45 · LID 470 Vadillo, Iñaki Temporal evolution of emerging contaminants in groundwater from an area irrigated with reclaimed wastewater 11:45-12:00 · LID 499 Tomei, Alessio Occurrence of contaminants of emerging concern and their metabolites in groundwater below a sewage treatment facility 12:00-12:15 · LID 739 Turan, Hatice Integrating environmental isotopes and contaminants of emerging concern to unravel hydrogeological processes in Mediterranean coastal lagoons: a case study of Étang de l’Or (Occitanie, France) 12:15-12:30 · LID 203 Currell, Matthew Contaminants in unexpected places: explaining the occurrence of synthetic chemicals in deep groundwater
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-17:00	Session 1.8 — Environmental tracers to investigate the anthropogenic impacts on groundwater Part II Chairs: Frédéric Huneau, Viviana Re 14:45-15:00 · LID 121 Cocca, Daniele Unraveling the interactions between shallow and deep aquifers analysing groundwater chemical trends: insights from a case study in the Piedmont Po Plain (NW Italy) 15:00-15:15 · LID 459 Lobina, Francesca Nitrogen dynamics and natural attenuation in the unsaturated zone: insights from a high-resolution study in the Arborea NVZ (Italy) 15:15-15:30 · LID 784 Gastmans, Didier Urbanization and overexploitation impacts in a complex aquifer in semiarid region in northeastern Brazil 15:30-15:45 · LID 79 Ślósarczyk, Kinga Occurrence of pharmaceuticals and personal care products in groundwater replenished by managed aquifer recharge at the Świerczków well field site (southern Poland) 15:45-16:00 · LID 757 Oldani, Erica CSIA for assessing chlorinated solvents bioremediation: a user’s perspective on the state of practice 16:00-16:15 · LID 918 Yu, Lily Modeling a moving target: a chemical conceptual model for groundwater plumes under changing pumping conditions 16:15-16:30 · LID 263 Zainab, Syeda Maria From sink to spring: how do microplastics behave in a show-cave karst aquifer? 16:30-16:45 · LID 822 Farlin, Julien Using nitrate isotopes and ancillary catchment information on nitrate sources to perform a coupled estimation of source apportionment and denitrification losses in drinking water aquifers 16:45-17:00 · LID 365 Árcega Cabrera, Flor Emerging organic contaminants in the karst aquifer of Yucatán, Mexico: assessing the urban impact of Mérida
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:30	Session 4.8 — Groundwater model optimization and uncertainty Part I Chairs: Jeremy White, Katie Markovich, Joe Hughes 10:00-10:15 · LID 370 Cavana, Elettra Optimizing monitoring effort for numerical modelling of fractured sedimentary aquifers 10:15-10:30 · LID 254 Mosquera, John Conceptual hydrogeological model testing and refinement using numerical modelling in a complex glaciated environment 10:30-10:45 · LID 395 Guillemoto, Quentin Hydrogeological modelling of the Nord-Artois-Picardie Chalk hydrosystem for sustainable water management: multidisciplinary approach for conceptual and structural controls 10:45-11:00 · LID 479 Rolf, Lukas Characterizing a multilayer aquifer system with a multiphase pumping test using a shifted reference time approach 11:00-11:15 · LID 246 Fekri, Maziar Trustworthy recharge estimates from Pastas: a practical framework for robust recharge estimation from time series analysis of groundwater level data 11:15-11:30 · LID 772 Marin Rivera, Carlos Felipe How can radiocarbon data assimilation improve estimates of sustainable abstraction volumes in confined aquifer systems? A case study from the Aquitaine Basin 11:30-11:45 · LID 315 Standen, Kath Efficient adjoint analysis for estimation of stream capture to support groundwater abstraction management in the UK 11:45-12:00 · LID 235 Olasz, Tamás Decision support tool in GoldSim for managing and optimizing remediation activities 12:00-12:15 · LID 196 Fienen, Michael Beyond streamflow: managing tradeoffs between economy and ecology in high-capacity well evaluation 12:15-12:30 · LID 427 Comte, Jean-Christophe Estimating aquifer dual-porosity transport properties through geoelectrical imaging of road salt plumes
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

14:30-14:45	NOT IN THIS ROOM Technical break / room change
14:45-16:45	Session 4.8 — Groundwater model optimization and uncertainty Part II Chairs: Jeremy White, Katie Markovich, Joe Hughes 14:45-15:00 · LID 422 Petitjean, Zoé Combining geological knowledge and observations to improve predictions of transport models 15:00-15:15 · LID 267 Moghimi Benhangi, Saman Disentangling geological and parametric contributions to predictive uncertainty in groundwater flow models: a variance-based framework 15:15-15:30 · LID 675 García-Gámez, Marta Geological characterization with stochastic modeling for a managed aquifer recharge site 15:30-15:45 · LID 81 Speijer, Lara Can groundwater flux measurements constrain uncertainties in groundwater flow modelling for managed aquifer recharge assessment? 15:45-16:00 · LID 128 Hugman, Rui Model emulation made simple with pyEMU 16:00-16:15 · LID 539 Nienhuis, Philip Effects of aquifer scheme choices on calibration reliability 16:15-16:30 · LID 883 Abdelshahid, Steven Optimized geometric selection algorithms for large 3D datasets in groundwater modelling 16:30-16:45 · LID 876 Suescun, Luis Camilo Complex or Simple—Getting the Best of Both Worlds in Groundwater Modelling for Mine Dewatering
17:15-18:15	NOT IN THIS ROOM Poster Session 1 (P-001-P-157) and coffee break



MORNING

08:30-09:30	Plenary Session 2: Towards a Transdisciplinary Global Groundwater Sustainability Network (GGSN)
09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:15	Session 5.1 — Groundwater and climate change: predictive studies and forecasting methods Part I <i>Chairs: Tibor Stigter, Manuela Lasagna</i> 10:00-10:15 · LID 272 Agudelo Mendieta, Tania Climate Collaboratorium: transdisciplinary groundwater modelling to support community-based climate change adaptation, case study of the mining region of Rietschen (Görlitz, Germany) 10:15-10:30 · LID 265 Campanya, Joan Groundwater level forecasting for climate change adaptation in Ireland 10:30-10:45 · LID 155 Upton, Kirsty Forecasting yields from public water supply boreholes 10:45-11:00 · LID 507 Ndakola, Hilja Assessing the impacts of climate and land use/land cover change on groundwater recharge and discharge patterns – a case study of the Windhoek Aquifer, Namibia 11:00-11:15 · LID 316 Gros, Emile Impact of climate change on the river flow dynamics over recent decades on a tropical volcanic island: the northeast of Martinique 11:15-11:30 · LID 108 Bhattacharya, Ankita Impact of groundwater in compound flood events: a case study of the Conwy Estuary in Wales 11:30-11:45 · LID 653 Bosserelle, Amandine Mapping New Zealand coastal shallow groundwater vulnerability to sea-level rise 11:45-12:00 · LID 900 Dorofeev, Ilia Evaluation of the impact of agricultural practices on groundwater levels, mineralization and salt accumulation in the Republic of Karakalpakstan, Uzbekistan 12:00-12:15 · LID 607 Kovács, Balázs Decline of groundwater resources in the Pannonian Basin – the impact of climate change on a vulnerable aquifer system
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
19:00-22:00	Gala Dinner



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-11:45	Session 5.2 — Managed aquifer recharge: essential for groundwater security? Complete session <i>Chairs: Aqeela Parker, Julian Conrad</i> 10:00-10:15 · LID 16 · DISTINGUISHED LECTURER Mumberg, Tabea Understanding PFAS in MAR systems – insights into seasonal variations, mobility, and local sources 10:15-10:30 · LID 135 Chow, Reynold Enhancing groundwater resilience to drought through integrated modelling, Earth Observation and managed aquifer recharge: insights from the AQUIGROW project 10:30-10:45 · LID 170 Schultze, Anne Securing water supply for agriculture with storm-water based managed aquifer recharge 10:45-11:00 · LID 457 De Louw, Perry G.B. Large-scale groundwater abstraction beneath a freshwater lake for long-term sustainable drinking water supply 11:00-11:15 · LID 43 Brody, Sigal Quantifying effluent residence time in a large-scale SAT system: insights from a large-scale field tracer test 11:15-11:30 · LID 604 Janik, Krzysztof Integrated monitoring reveals hydrochemical shifts in a riverbank filtration system under sustained river impoundment 11:30-11:45 · LID 1046 Krasznói, Anna Decentralised wastewater treatment as a tool for local water retention
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-14:30	Session 4.3 — Advances in modeling groundwater dynamics from regional to global scales Part III <i>Chairs: Laura Condon, Stefan Kollet, Chunmiao Zheng</i> 13:00-13:15 · LID 309 Marin Rivera, Carlos Felipe Unravelling response times in regional groundwater systems: implications for the past and the future 13:15-13:30 · LID 236 Nagheli, Setareh Identifying relative sources of groundwater recharge in the Indus alluvial aquifer using a new canal module within a coupled VIC-groundwater model 13:30-13:45 · LID 193 Birk, Steffen Response of groundwater levels to interactions between recharge and irrigation in a changing climate (Seewinkel, Austria) 13:45-14:00 · LID 48 Wang, Xihua Multi-indicators to investigate the spatiotemporal effect of groundwater-lake interaction on lake development 14:00-14:15 · LID 144 Chesnaux, Romain Analytical hydrogeology of unconfined Dupuit-type aquifers 14:15-14:30 · LID 393 King, Jude From global datasets to risk maps: an integrated framework for 3D modelling of coastal groundwater salinity
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
16:00-17:00	Commission on Managing Aquifer Recharge



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:00	Session 1.7 — Hydrogeochemical and isotopic fingerprinting of groundwater systems: from water-rock interaction to human impacts Part III Chairs: Veysel Süleyman Yavuz, Ashwani Kumar Tiwari 10:00-10:15 · LID 904 Wang, Qiang Cele River-Keriya River Basin alluvial-proluvial fan depression zone groundwater reservoir formation conditions and regulation and storage potential study 10:15-10:30 · LID 586 Marcin, Daniel Conditions of mineral waters formation in Herľany 10:30-10:45 · LID 221 Esmond, Monica Springs are crucibles of biodiversity connecting groundwater and surface water ecohydrology 10:45-11:00 · LID 248 Gori, Francesca Combined impact of climate and seismic activity on shallow-to-deep groundwater systems by monitoring hydrogeochemistry in the Eastern Southern Alps, Italy 11:00-11:15 · LID 466 Jimenez-Martinez, Joaquin Reducing nitrate loads to a Mediterranean aquifer: effects of crop-rotation strategies and soil nitrogen gas fluxes 11:15-11:30 · LID 496 Ram, Roi Noble gases record Last Glacial-Holocene water-table decline in the arid southeastern Mediterranean 11:30-11:45 · LID 282 Ramos, Maria Luiza Hydrodynamics of Morro da Água Quente geothermal system and mining feasibility at Fazendão mine, Quadrilátero Ferrífero, southeastern Brazil 11:45-12:00 · LID 194 Kivits, Tano Reconstructing groundwater age and vertical flow paths in a former coal mining area using multi-tracer analysis
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-14:45	Session 1.7 — Hydrogeochemical and isotopic fingerprinting of groundwater systems: from water-rock interaction to human impacts Part IV Chairs: Veysel Süleyman Yavuz, Ashwani Kumar Tiwari 13:00-13:15 · LID 818 Lu, Xinyan Permafrost-controlled submarine groundwater discharge and sea ice processes amplify radium signals in the Arctic Ocean 13:15-13:30 · LID 288 Musy, Stephanie L. Diffusion-controlled isotope transport and implications for dating fossil groundwater in the Milk River Aquifer (Canada-USA) 13:30-13:45 · LID 495 Yang, Guo-Min ⁸¹Kr dating of liter-sized groundwater samples enables simple bottle-based field collection 13:45-14:00 · LID 478 Mao, Deqiang Integrating spectral induced polarization with reactive transport modeling to quantify nitrate remediation capacity of permeable reactive barriers 14:00-14:15 · LID 605 Jiang, Lei Interaction between surface water-groundwater and its ecological effects on the lower reaches of Tarim River Basin affected by ecological water conveyance 14:15-14:30 · LID 133 Voudouris, Stylianos Multidisciplinary characterization of a Mediterranean island hydrogeosystem 14:30-14:45 · LID 601 Lartsey, Priscilla Establishing the origin and mechanism of groundwater recharge in basement aquifers of the north-western Volta River Basin of Ghana, using environmental isotopes and hydrochemistry
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
17:00-19:00	3D Cave Projection 3 × 30-minute presentations + technical breaks



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:00	Session 1.2 — Hydrogeology of karst and fractured systems: From field studies to quantitative characterization Part III <i>Chairs: Attila Kovács, Peter Malik, Zoran Stevanović, Arnauld Malard</i> 10:00-10:15 · LID 233 Dong, Muqing Characterising spatial groundwater recharge heterogeneity using transfer-function modelling in a fractured rock aquifer in Wellington (NSW, Australia) 10:15-10:30 · LID 710 Orticoni, Davia Coupling pumping-test interpretation and natural tracers to characterize compartmentalization in a mineral water fractured aquifer 10:30-10:45 · LID 430 Meus, Philippe Retrospective and prospective on the use of fluorescent tracers in hydrogeology 10:45-11:00 · LID 324 Baldwin, Dwight Refined geological and hydrogeological models to resolve surface and underground impacts of the Einstein Telescope facility in the Euregio-Meuse Rhine (EMR) region 11:00-11:15 · LID 271 Ivanova, Arina Hydrogeologically diverse aquifers converge surface-derived DOM into a persistent molecular core 11:15-11:30 · LID 361 Tamagnini, Erica Deep-seated gravitational slope deformations control on groundwater flow and spring dynamics in the Northern Apennines (Italy) 11:30-11:45 · LID 401 Sauter, Martin The role of carbonate aquifers in the circum-Mediterranean region as a storage reservoir in the context of water resources management strategies 11:45-12:00 · LID 56 Zou, Shengzhang Groundwater hydrochemical characteristics and human health risk assessment of dispersed karst water sources in southeast of Chongqing
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-15:00	Session 6.4 — Hydrogeology education - good practices and new openings Complete session <i>Chairs: Kirsti Korkka-Niemi, Niina Kuosmanen, Ádám Tóth</i> 13:00-13:15 · LID 529 Kalwijn, Ineke The Groundwater Project: global groundwater education 13:15-13:30 · LID 101 Misstear, Bruce Hydrogeology education: the role of groundwater engineering 13:30-13:45 · LID 747 Kowalczyk, Agnieszka Hydrogeological education – optional knowledge or a higher necessity? 13:45-14:00 · LID 453 Sandhu, Cornelius Development of higher education modules on managed aquifer recharge – a nexus approach 14:00-14:15 · LID 722 Tóth, Ádám Educating for the green transition: embedding GreenComp in groundwater education 14:15-14:30 · LID 517 Kuosmanen, Niina Collaborative hydrogeology field school: integrating teaching, research, and professional training 14:30-14:45 · LID 74 Sapiano, Manuel The Thirsty Knight – groundwater management in historic times 14:45-15:00 · LID 944 Erhardt, Ildikó Students’ knowledge and attitudes towards groundwater and nature-based managed aquifer recharge – effects of a short educational intervention
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
16:00-17:00	Roundtable discussion 2: Model Uncertainty in Hydrogeology

**MORNING****09:30-10:00****NOT IN THIS ROOM**
Coffee break**10:00-11:45****Session 1.1 — Isotopic studies from precipitation to groundwater****Part I***Chairs: István G. Hatvani, Polona Vreča***10:00-10:15** · LID 256**Bogdevici, Oleg**

Evaluation of surface-groundwater interaction using stable isotopes and geochemical composition for water management purposes in arid zone

10:15-10:30 · LID 285**Koeniger, Paul**

A new database for stable isotopes and tritium in precipitation, surface water and groundwater – German isotope network

10:30-10:45 · LID 94**Xie, Yueqing**

Paleoclimate reconstruction in a large delta with groundwater isotopes

10:45-11:00 · LID 806**Czuppon, György**

Cave drip water reflects karst hydrology and precipitation dynamics

11:00-11:15 · LID 803**Dragusin, Virgil**

Groundwater-precipitation isotopic relationship at several sites in Romania

11:15-11:30 · LID 616**Vreča, Polona**

Long-term water isotope datasets from Slovenia supporting isotope hydrogeological research

11:30-11:45 · LID 680**Hatvani, István Gábor**Spatial distribution of the isotope hydrological characteristics ($\delta^2\text{H}$, $\delta^{18}\text{O}$, d_{exc}) of groundwater in Hungary in the 2020s – contribution to the National Atlas of Isotope Hydrology project**12:00-13:00****NOT IN THIS ROOM**
Lunch**AFTERNOON / EVENING****13:00-14:00****Session 1.1 — Isotopic studies from precipitation to groundwater**
Part II*Chairs: István G. Hatvani, Polona Vreča***13:00-13:15** · LID 706**Gcakasi, Monis Nolitha**

Application of nitrate and water stable isotopes to evaluate nitrate dynamics and surface-groundwater interaction in the Lower Lobau floodplain aquifer (Danube River Basin)

13:15-13:30 · LID 363**Yoxas, Gerasimos**

Assessment of groundwater potential and productivity variability through exploratory boreholes in Tseri, Cyprus

13:30-13:45 · LID 780**Ferreira, Ana Clara Mariante**

Groundwater-glacier connectivity and meltwater recharge in an Antarctic periglacial system revealed by radon and isotopes

13:45-14:00 · LID 923**Ortega, Lucia**

Localized urban recharge and return flows shape groundwater dynamics in the Patiño Aquifer, Asunción, Paraguay

15:00-16:00**NOT IN THIS ROOM****Poster Session 2 (P-161-P-315) and coffee break****16:00-17:00****IAH-SHG**



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:00	Session 5.4 — Managed aquifer recharge for climate change adaptation Part III <i>Chairs: Catalin Stefan, Rudy Rossetto, Daniela Benedicto van Dalen</i> 10:00-10:15 · LID 660 Ridavits, Tibor A MAR-supported riverbank filtration system – challenges and opportunities 10:15-10:30 · LID 501 Grischek, Thomas Effects of climate change and pond management on bank filtration at Sdier, Germany 10:30-10:45 · LID 567 Mazzon, Pietro Irrigation–groundwater interactions as allies in climate change adaptation: results from an Ag-MAR application 10:45-11:00 · LID 426 Panday, Sorab Decision support tools for scientific storytelling 11:00-11:15 · LID 327 Rodriguez Lache, Erika Assessing the impact of adjustable weirs on groundwater availability and crop performance in Flanders, Belgium. 11:15-11:30 · LID 520 Mustafa, Syed MAR as a sustainable solution? Co-creating groundwater management strategies to improve salinity resilience in deltas 11:30-11:45 · LID 392 Li, Zhengyan Enhancing baseflow resilience through managed aquifer recharge: quantifying groundwater system response to ecological water replenishment in the North China Plain 11:45-12:00 · LID 386 Karthikeyan, Brindha Assessment of groundwater recharge by irrigation tanks in weathered hard rock regions
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-14:45	Session 4.4 — 21st-century groundwater quality challenges Part I <i>Chairs: Gualbert Oude Essink, Jeeban Panthi</i> 13:00-13:15 · LID 273 Mahieu, Anthony Compositional PCA and t-SNE radar signatures toward an integrated hydrogeological assessment of PFAS in a fractured chalk aquifer 13:15-13:30 · LID 192 Patel, Raghav A national-scale preliminary overview study of poly- and perfluoroalkyl substances (PFAS) occurrence in aquatic environments of England, UK 13:30-13:45 · LID 58 Nakagawa, Kei Vertical distribution of PFAS in coastal sediments of Ōmura Bay: a proxy for long-term anthropogenic contamination from terrestrial sources 13:45-14:00 · LID 10 November, Jeroen Addressing PFAS contamination in the groundwater abstraction site ‘Heverlee Abdij’ (De Watergroep, Belgium): monitoring, challenges, and strategic responses 14:00-14:15 · LID 218 Stahl, Mason Hydrologic controls on arsenic contamination of rice and groundwater: insights from Cambodia 14:15-14:30 · LID 55 Goni, Ibrahim Baba Heavy metals contamination in groundwater and associated human health risk in semi-arid Katsina State, northwestern Nigeria 14:30-14:45 · LID 348 Sun, Yuanyuan Zheng, Mingxia Long-term stabilization of chromite ore processing residue via elemental sulfur disproportionation for groundwater contamination mitigation
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
16:00-17:00	National Chapters Committee Members Meeting



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:00	Session 4.2 — From data to action: the contribution of groundwater monitoring as a driver of change Part I <i>Chairs: Elisabeth Lictevout, Andrew Pearson</i> 10:00-10:15 · LID 367 · DISTINGUISHED LECTURER Zaadnoordijk, Willem Assessment of groundwater level trends and drought based on the European EUGM database 10:15-10:30 · LID 314 Damato, Adriana Statistical insights from long-term time series of radon and hydrogeochemical signatures in groundwater of the Matese Region, Central-Southern Italy 10:30-10:45 · LID 431 Zawadzki, Mateusz Short-and-dense versus long-and-sparse: trade-offs in groundwater level time series analysis 10:45-11:00 · LID 721 Landi, Laura Exploring climatic drivers of groundwater level changes in the Po Plain (Italy) 11:00-11:15 · LID 394 Pensa, Claudia Century-scale spring discharge trends under climate change in the Southern Apennines (Italy) 11:15-11:30 · LID 232 Sprong, Anouk Temperature-depth profiles at Vitens’ riverbank filtration site: Engelse Werk 11:30-11:45 · LID 623 Autio, Anna Digital twins for groundwater resource management? A case study of the Patamäki esker aquifer 11:45-12:00 · LID 808 Barberá Fornell, Juan Antonio An integrated karst groundwater monitoring solution to support local water management from springs and wells intended for urban water supply
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-15:00	Session 4.2 — From data to action: the contribution of groundwater monitoring as a driver of change Part II <i>Chairs: Elisabeth Lictevout, Andrew Pearson</i> 13:00-13:15 · LID 745 Stigter, Tibor Collaborative groundwater monitoring for action in connected environments: from tropical water towers through sand rivers to the coast 13:15-13:30 · LID 120 Fernández-Ortega, Jaime Use of soft sensors to provide real-time sanitary risk assessment in karst springs captured for drinking water supply 13:30-13:45 · LID 375 De Filippi, Francesco Maria A novel groundwater sampling framework incorporating hydrogeological characterization and dynamic purging 13:45-14:00 · LID 802 Doummar, Joanna From assessment to strategy: advancing water quality in Lebanon 14:00-14:15 · LID 652 Charbel, Hanna Water resources monitoring: a key challenge for Lebanon 14:15-14:30 · LID 869 Kalwa, Fritz How to measure groundwater levels with a smartphone? The Groundwater Global app 14:30-14:45 · LID 206 Lim, Jeongwon Reframing groundwater monitoring strategies for nuclear facilities: hydrogeological gaps and future directions from Korean cases 14:45-15:00 · LID 929 Piscedda, Fabrizio Antonio Monitoring-based validation of GALDIT seawater intrusion vulnerability mapping: the Muravera coastal aquifer (SE Sardinia)
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
16:00-17:00	Urban Groundwater Network



MORNING

09:30-10:00	NOT IN THIS ROOM Coffee break
10:00-12:00	Session 3.3 — Monitoring and modeling groundwater-dependent ecosystems: recent advances and traditional knowledge Part I Chairs: Richard Cresswell, Anne Gibson 10:00-10:15 · LID 449 · DISTINGUISHED LECTURER Hinsby, Klaus From local springs to global signals: why mandatory national spring monitoring is essential for groundwater status assessments 10:15-10:30 · LID 349 Gibson, Anne Using a novel chain of models to mimic source aquifer depressurisation impacts across the Doongmabulla Springs Complex, Queensland, Australia 10:30-10:45 · LID 460 Cresswell, Richard Multiple lines of evidence provide a holistic and testable conceptualisation of complex ecosystem-groundwater dynamics at the Doongmabulla Springs Complex, Queensland, Australia 10:45-11:00 · LID 456 Korbel, Kathryn Monitoring groundwater ecosystems: lessons from 20 years of sampling in the Murray-Darling Basin, Australia 11:00-11:15 · LID 678 Garel, Emilie Tritium as an indicator of legacy groundwater pollution to Mediterranean ecosystems 11:15-11:30 · LID 468 Gargini, Alessandro Mapping groundwater-dependent ecosystems in a mountain setting: an integrated approach 11:30-11:45 · LID 299 Egidio, Elena Assessing the sensitivity of lowland springs to climate variability and anthropogenic pressures through integrated monitoring 11:45-12:00 · LID 46 Chiu, Yung-Chia Spatial-temporal dynamics of surface water-groundwater interactions in a fragmented alpine headwater stream, Taiwan
12:00-13:00	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:00-14:30	Session 3.3 — Monitoring and modeling groundwater-dependent ecosystems: recent advances and traditional knowledge Part II Chairs: Anne Gibson, Richard Cresswell 13:00-13:15 · LID 576 Barrow, Dale Establishing thresholds of potential concern for adaptive management of the Steenbras Wellfield within the Table Mountain Group Aquifer, South Africa 13:15-13:30 · LID 669 Gelsinari, Simone Quantifying vegetation transpiration from groundwater in Mediterranean forests: an isotope-informed model integration 13:30-13:45 · LID 632 Valdambrini, Bruno Groundwater export and import units mediate Pantanal Wetland hydrological fluxes 13:45-14:00 · LID 455 Verreydt, Goedele An innovative vertical flux sensor for hyporheic exchange monitoring 14:00-14:15 · LID 112 Wilson, Paul Informing conjunctive water management with groundwater-spring modelling in a sand and gravel catchment 14:15-14:30 · LID 758 Santoni, Sébastien Isotope tracers to assess groundwater connectivity in small Mediterranean coastal lagoons: hydrological insights and methodological recommendations
15:00-16:00	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
16:00-17:00	Burdon Groundwater Network for International Development



MORNING

08:30-09:00	Keynote: Marc F.P. Bierkens
09:00-09:30	Keynote: Joanna Doummar
09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:30	Session 5.1 — Groundwater and climate change: predictive studies and forecasting methods Part II <i>Chairs: Okke Batelaan, Attila Kovács</i> 10:30-10:45 · LID 224 Schuler, Philip Mapping the vulnerability of groundwater to drought using ensemble-based reconstructed groundwater level time series 10:45-11:00 · LID 408 Redaelli, Agnese Irrigation practice changes versus meteorological drought: a numerical modeling assessment of aquifer depletion 11:00-11:15 · LID 734 Boutt, David The emerging threat of water table rise 11:15-11:30 · LID 510 Gizzi, Martina Hydrogeological analysis of a mountain spring in the Aosta Valley (NW Italy): Insights from harmonic and isotopic approaches 11:30-11:45 · LID 389 Mourot, Frederique Enhancing groundwater recharge projections insights by learning from the past 11:45-12:00 · LID 242 Arinaitwe, Miriam Climate change impacts on groundwater recharge in the Mitchells Plain West Catchment of the Cape Flats Aquifer 12:00-12:15 · LID 871 Mohammed, Sarkhel H. An integrated framework for groundwater potential mapping and spatiotemporal trend assessment in the Erbil Regional Groundwater Basin, northern Iraq 12:15-12:30 · LID 40 Szűcs, Péter Possible solutions for the extreme water management situations in Hungary
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

13:30-14:00	IAH Distinguished Lecture: Jay Famiglietti
14:00-15:00	Closing Ceremony



MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:30	Session 3.5 — Nature-based solutions for sustainable groundwater management Complete session Chairs: <i>Ádám Tóth, Daniela Benedicto</i> 10:30-10:45 · LID 755 · DISTINGUISHED LECTURER Thomas, Stephen David Stormwater attenuation and enhanced infiltration systems to mitigate flooding 10:45-11:00 · LID 519 Mádl-Szőnyi, Judit Nature-based aquifer recharge: experiments and models for public understanding 11:00-11:15 · LID 714 Leydier, Thomas Exploring the potential of nature-based solutions for Mediterranean coastal groundwater-dependant wetlands through a participatory living lab approach 11:15-11:30 · LID 663 Simon, Szilvia Effectiveness of surface water retention through canals in terms of groundwater, in the Danube-Tisza Interfluve, Hungary 11:30-11:45 · LID 281 Troelstra, Veerle Multi-exponential retention of pathogens during subsurface transport 11:45-12:00 · LID 140 Puigserver, Diana Activation of reactive zones in aquitards for the mobilization and degradation of persistent and emerging contaminants 12:00-12:15 · LID 500 Vigouroux, Rémi Multidisciplinary approaches for characterising infiltration in volcanic sinkholes in the context of recurrent flooding of lowlands in northern Rwanda 12:15-12:30 · LID 618 Jirasirak, Sasin Eco-hydrogeological assessment of Nature-based Solutions (NBS) for flood risk reduction in Thailand using isotope fingerprinting technique and SWAT-MODFLOW simulation
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING



MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:15	Session 4.5 — Groundwater temperatures in a warming climate: risks, opportunities, and pathways for sustainable thermal management Complete session <i>Chairs: Elena Egidio, Eric Zechner</i> 10:30-10:45 · LID 360 · DISTINGUISHED LECTURER Bense, Victor Quantifying pumping-induced vertical groundwater fluxes using transient temperature-depth profiles 10:45-11:00 · LID 440 Tomita, Shohei Development of a groundwater flow estimation method using cooling thermal response test focused on freezing-thawing processes 11:00-11:15 · LID 782 Benoit, Nicolas Assessing a sub-river talik aquifer in continuous permafrost: implications for potential water supplies in Arctic regions 11:15-11:30 · LID 73 Asalu, David Data-driven assessment of groundwater temperature effects on redox-sensitive Fe and Mn in the Israeli coastal aquifer: implications under future warming 11:30-11:45 · LID 159 Moeck, Christian Groundwater warming in Switzerland: trend analyses, seasonal dynamics, and hydrogeological controls 11:45-12:00 · LID 351 Berta, Alessandro Practical implications of urban modelling for open-loop geothermal systems: a MODFLOW 6–FEFLOW 10 Comparison from an Italian case study 12:00-12:15 · LID 919 Previati, Alberto Risk-based geothermal planning in the Milan urban area using surrogate modeling
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

15:00-17:45	WREG meeting
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MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:30	Session 1.6 — Developments in mineral and thermal waters: from exploration to sustainable use Complete session Chairs: Adam Porowski, István Fórizs, Nina Rman 10:30-10:45 · LID 105 Kłonowski, Maciej R. Hydrogeology and hydrogeochemistry of selected potentially medicinal waters of the Sudetes (SW Poland, NE Bohemian Massif) 10:45-11:00 · LID 181 Marques, José Comparative conceptual modelling of hyposaline natural mineral waters systems in quartzitic settings (Central Portugal) 11:00-11:15 · LID 262 Szabó, Zsóka Integrated hydrogeochemical and isotopic investigation of the thermal karst system of Budapest, Hungary: implications for groundwater system understanding 11:15-11:30 · LID 1043 Deák, József Verification of the regional groundwater flow system to prove the origin of Minera and Veritas mineral water in Albertirsa (Hungary) 11:30-11:45 · LID 713 Orticoni, Davia Multi-tracer isotope approach for groundwater-surface water interactions in a Mediterranean complex aquifer exploited for natural mineral water 11:45-12:00 · LID 920 Fórizs, István Isotope hydrological proof of the special properties of the Hungarian mineral waters 12:00-12:15 · LID 1044 Fosselard, Patricia Original purity for natural mineral waters – An evolving concept 12:15-12:30 · LID 1047 Szlukovinyi, Áron Wood (larch) cased wells in Hungary established in the XIX. Century
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING



MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:30	Session 4.4 — 21st-century groundwater quality challenges Part II Chairs: Gualbert Oude Essink, Jeeban Panthi 10:30-10:45 · LID 474 Li, Lu Migration mechanism and health risk warning of polycyclic aromatic hydrocarbons in karst groundwater of industrial cities in China 10:45-11:00 · LID 146 Li, Zhuolin Spatial variability of groundwater nitrate and fecal sterol signatures in an intensively farmed area of western Japan 11:00-11:15 · LID 251 Zanotti, Chiara Time-series clustering to assess trend reversals in groundwater nitrate concentrations at a regional scale 11:15-11:30 · LID 138 Tackley, Hayden Estuaries as amplifiers of coastal salinization: implications for soil, groundwater, and agriculture 11:30-11:45 · LID 549 Elçi, Alper Evaluation of bio-treated manure application impact on groundwater quality using advanced reactive transport models 11:45-12:00 · LID 312 Mali, Nina Improved methods for assessing microplastic transport in groundwater: the GWMicroPlast project 12:00-12:15 · LID 210 Liu, Yaci Microplastics in multiple environmental media along a land-sea continuum 12:15-12:30 · LID 286 Diene, Mandiaye Emerging organic contaminants in urban surface and groundwater systems: the case of Thiaroye, Dakar (Senegal)
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING

15:00-17:45	Short course: General introduction to COMSOL - Subsurface and groundwater flow simulation
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MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:00	Session 4.2 — From data to action: the contribution of groundwater monitoring as a driver of change Part III <i>Chairs: Elisabeth Lictevout, Andrew Pearson</i> 10:30-10:45 · LID 125 Sai Louie, Alice Assessing the effect of cable orientation in active-DTS-derived groundwater fluxes 10:45-11:00 · LID 735 Kumwenda, Steve Co-designing an optimized groundwater monitoring network for the Shire Transboundary River Basin 11:00-11:15 · LID 31 Pisani, Christa M. Springs as sentinels of hydroclimatic variability: discharge dynamics in the Wied il-Bużbież catchment 11:15-11:30 · LID 249 Sartirana, Davide Reactive transport modelling revealed the key role of methane oxidation in a groundwater hydrocarbon plume 11:30-11:45 · LID 239 Lictevout, Elisabeth Advancing data sharing, dissemination, collaboration and global-scale analysis through the Global Groundwater Monitoring Network 11:45-12:00 · LID 446 Mabula, Tholoana Assessment of groundwater quality in compliance with SDG 6.3.2 set targets: case study of South Africa
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING



MORNING

09:30-10:30	NOT IN THIS ROOM Poster Session 2 (P-161-P-315) and coffee break
10:30-12:30	Session 4.6 — Data-driven and hybrid methods for groundwater vulnerability assessment Complete session Chairs: Stefania Stevenazzi, Petra Baják, Gianluigi Busico, Dawid Potrykus 10:30-10:45 · LID 717 Zavridou, Efthymia “GrounDwater sAlinizaTion and pollution AsseSsmEnt Tool” (DATASET) index, a holistic vulnerability assessment framework specifically designed for coastal aquifers 10:45-11:00 · LID 776 Ez-Zaouy, Yassine Multi-site assessment of open-access global data for coastal groundwater vulnerability mapping 11:00-11:15 · LID 137 Baják, Petra Assessing groundwater vulnerability to nitrate contamination in a rice-growing district (northern Italy) using generalized linear regression models 11:15-11:30 · LID 483 Fancello, Vittorio Surface-groundwater investigations to support ex-ante evaluations of water withdrawals 11:30-11:45 · LID 555 Hall, Ben Advanced recharge analysis to support groundwater management: Western Port Basin, Australia 11:45-12:00 · LID 911 Shi, Wenwen Groundwater pollution risk assessment based on GIS and game theory combination weighting: a case study of the oasis area in the Hotan River Basin 12:00-12:15 · LID 110 Zhu, Yuchen A dual perspective on soil heavy-metal ecological risk: parallel pathways of intrinsic intensity and spatial spillover 12:15-12:30 · LID 622 Liu, Jun Hybrid model for enhanced groundwater level estimation
12:30-13:30	NOT IN THIS ROOM Lunch

AFTERNOON / EVENING