

Monday, Sept 6th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
8.45-10.15	Opening Act					
10.15-11.00						Coffee/Exhibition/ Posters
11.00-12.15	3. Groundwater contamination Conveners: D. Hunkeler, L. Gourcy	5. Groundwater and climate change Conveners: B. Cencur Curk, P. Goderniaux	16. Groundwater governance, policy and management Conveners: J. November, S. Mustafa	11. Coastal aquifers Conveners: R. Chesnaux, J.C. Marechal	14. Advances in forward and inverse groundwater modeling Conveners: J. Caers, Ph. Renard	
11,00	24: Biotic and abiotic reductive dechlorination of chloroethenes in the transition zone between aquifers and fractured bottom aquitards Diana Puigserver	33: Groundwater recharge estimation in eastern Bolivia using remotely- sensed hydrometeorological variables and its correlation with deforestation and fire Luiza de Freitas	348: Use of satellite imagery to characterise changes of irrigated land use and its effect on groundwater abstraction in Campina de Faro Aquifer, South Portugal Luís Costa	228: Determining aquifer hydrogeological parameters in coastal aquifers from tidal attenuation analysis. Case study: The Malta Mean Sea Level Aquifer system Francesco Demichele	485: A webtool for the 3D conceptualization and animation of groundwater flow systems Pierre-Yves Jeannin	
11,15	278: Protecting drinking water resources from n-nitrosomorpholine dual migration through the Fécamp – Lillebonne chalk aquifer system in Normandy Didier Pennequin	101: Local and large scale climate forcing on groundwater management of Tropical Islands Marc Dumont	25: Contribution of land use/land cover and climate factors on groundwater recharge and groundwater drought in temperate context Buruk Kitachew Wossenyelew	297: Use of multivariate geostatistics to investigate time- dependent saltwater intrusion and perform groundwater quality zonation in a Nile Delta area (northern Egypt) Diego Di Curzio	52: Towards a hydrogeological joint model inversion: Interpretation and assessment of environmental tracers for their application in numerical groundwater modelling for the Neogene Aquifer, Belgium. Jesus Alberto Casillas Trasvina	
11,30	188: Monitoring landfill impact on groundwater using environmental isotopes Elisabetta Preziosi	144: Impact of climate forcing on the hydrogeological functioning of a small anthropogenic mining catchment Pierre L'Hermite	40: Tackling illegal groundwater drilling and abstractions: The IMPEL approach Jeroen November	69: Fresh Submarine Groundwater Discharge in the Western Belgian Coast Marieke Paepen	277: Effect of model structural error on estimation of parameters and uncertainty from aquifer tests using open source software Mark Bakker	
11,45	420: Global assessment of geogenic fluoride in groundwater Joel Podgorski	451: Assessment of illegal drilling by combination of drought indices and NDVI: case of the Nadhour-Saouaf aquifer (Northeast Tunisia) Emna Gargouri-Ellouze	73: Hydro-Economic Modeling for Integrated management of the North-Western Sahara Aquifer System Amine Chekireb	205: Groundwater and salinisation risk: management experience in the Mediterranean area Maurizio Polemio	157: Groundwater potential mapping by means of multilayer supervised classification: an application to the Abéché region, Víctor Gómez-Escalonilla	
12,00	41: Monitoring and distribution assessment of contaminants of emerging concern and regulated pollutants in surface water and groundwater of a highly anthropized river basin (southern Spain) Marta Inés Llamas-Dios	301: Assessment of climate change impact on a partially-confined sand aquifer through a specific modelling routine development Remi Vigouroux	61: pydov: a library to empower open geoscience data in Flanders, Belgium Pieter Jan Haest	444: Mapping Seasonality in Seawater Intrusion: Geophysical Investigation and Numerical Modeling Jeeban Panthi	9: Application of non-linear recharge models in transfer- function noise models: challenges and opportunities Raoul Collenteur	
12.15-13.45						Lunch/Exhibition/ Posters

Monday, Sept 6th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
12.15-13.45						Lunch/Exhibition/ Posters
13.45-14.30	Keynote lecture Jef Caers: Large-scale non-Convener: M. Huysmans					
14.30-15.45	3. Groundwater contamination Conveners: D. Hunkeler, L. Gourcy	8. Managed aquifer recharge Conveners: C. Stefan, N. Hartog	7. Karst and fractured rock hydrogeology Conveners: U. Troeger	11. Coastal aquifers Conveners: D. Pennequin, J.C. Marechal	14. Advances in forward and inverse groundwater modeling Conveners: J. Caers, Ph. Renard	
14,30	471: Effective monitoring of emerging organic compounds in European groundwater Benjamin Lopez	344: Using Distributed Temperature Sensing and Borehole Logging to track the movement of infiltration water in ASR systems Frans Schaars	89: Vulnerability Assessment of a Tropical Cone Karst Area in Gunung Kidul (Java) as Resource for a Water Supply Improvement in a Changing Climate Lena Kämpfner	12: An analytical methodology to estimate the changes in groundwater resources with sea- level rise and coastal erosion in strip-island unconfined aquifers: illustration with Savary Island, Canada Romain Chesnaux	318: How robust are inverse methods when prior changes? A categorical multiple-point statistical case with pumping test Przemysław Juda	
14,45	256: New method for Compound Specific Carbon Isotope of chlorinated solvents in porewater, based on solvent extraction and GC-IRMS with SPME Joffre Herrero	134: "Water 4 later" – Collective rainwater storage coupled to ASR, located within a business park in Keiberg-Vossem (Belgium) Ian Montauban	385: The best of two sides: combining ERT and groundwater modelling to optimize the management of a drinking water abstraction in a fractured aquifer (Borgloon, Belgium) Bjarn Van Riet	128: The distribution of saline and fresh groundwater and factors affecting water quality in the coastal aquifers of southwest Bangladesh Md. Mizanur Rahman Sarker	67: Modelling framework to estimate fresh groundwater occurrences and volumes below atolls Tess op den Kelder	
15,00	133: Eliminating the Risk from PFAS Contamination: Low Cost In-Situ Remediation with Colloidal Activated Carbon Kris Maerten	312: Nitrate and pesticide fate during managed aquifer recharge of tile drainage water Emiel Kruisdijk	32: Development of a water balance model for a massive limestone karst aquifer in the Eastern Rhenish Slate Mountains (North Rhine-Westphalia, Germany) Andreas Dohm	56: A method to interpret coastal aquifer pumping tests: removing noise and natural groundwater head fluctuations Laura Del Val	53: The potential of a Monte Carlo based sensitivity analysis for transport using a heat-solute tracer test in alluvial sediments Richard Hoffmann	
15,15	506: Spatio-temporal dynamics of nitrate leaching through the vadose zone Daniel Hunkeler	162: QMRA for setting health-based performance targets during soil-aquifer treatment: application to the Ezousa site in Cyprus Constantinos Panagiotou	259: CFD (Computational Fluid Dynamics) Modeling of Tracer Dispersion through Karst Conduits: Influence of Geometry and Comparison with On-site Tracer Tests Romain Deleu	326: Analysis of the sensitivity of a coastal aquifer to climate changes: the Roussillon aquifer case study Ludovic Schorpp	319: Detailed characterization and simulation of groundwater dynamics in a complex lowland interfluvium in Belgium Matej Gedeon	
15,3	246: Fate and transport of microplastics in a sandy aquifer and column studies Melissa Lenczewski	148: COASTAR as a subsurface solution to improve water availability, in areas around the world with water scarcity and salinization issues Gualbert Oude-Essink	99: Modelling the effect of the Roer Valley Graben border faults on groundwater flow: The case of the Grote Brogel Fault Albert Fernández Lagunas	313: Climate change and vulnerability of western Normandy's coastal aquifers with respect to salt water intrusions Erwan Idee	264: Bayesian Evidential Learning combined with experimental design: the case of wellhead protection area prediction Robin Thibaut	
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16.30	346: Groundwater monitoring of outflows from the Faro-Olhão wastewater treatment plant in southern Portugal Katherine Malmgren	409: Transfer of Trace Organic Compounds in the Soil Aquifer Treatment system of Agon-Coutainville (France) Quentin Guillemoto	248: Analysing Hydrographs of Barada and Figh spring (Syria) and others in Antilibabanon and their recession as indicator for the karst development Uwe Troeger	466: The Thau hydrosystem under surveillance: an observatory to prevent seawater intrusion in the submarine Vise spring (Balaruc-les-Bains, France) Vivien Hakoun	255: Image-based priors for probabilistic inversion of nonstationary hydrogeological fields through conflict-handling direct sampling Hesam Soltan Mohammadi		
16.45	34: Developing a simple method for the evaluation of Redox conditions in superficial groundwater at Pan EU scale Laurence Gourcy	146: Managed Aquifer Recharge as a solution for an over-exploited aquifer in South Portugal: Development of a decision-support groundwater model Kathleen Standen	151: Combined effects of 2016 seismic sequence and recharge variability on groundwater storage and discharge regime of Pescara and Capodacqua springs (Sibillini Mts. aquifer, central Italy) Marco Petitta	401: Saltwater intrusion and flow reversal at the submarine spring of a Mediterranean karst aquifer : explanation and modelling Jean-Christophe Marechal	283: Estimating daily groundwater level time-series at unmonitored sites based on comparative regional analysis Ezra Haaf		
17.00	210: Using reactive transport modeling and fractionation isotope analysis to evaluate chlorinated hydrocarbons plume remediation time-frame Pietro Mazzon	173: Current risk assessment approaches applied for managed aquifer recharge (MAR) – An overview Anne Imig	168: Conjugated Approach to Model Aquifer Drainage and Land Subsidence Induced by Underground Mining Artur Guzy	79: Geochemical characterization of groundwater and saltwater intrusion processes along the Luy River, Binh Thuan, Vietnam Thomas Hermans	435: A Python framework for reproducible groundwater flow models Onno Ebbens		
17.15	242: A new MCP package for reactive transport modelling in MT3D-USGS Cas Neyens	359: Evaluating large-scale MAR in Botswana based on water supply security, cost-effectiveness, and sustainability Andreas Lindhe	174: Evaluation of Transfer Function Noise Modelling and Dimensionality Reduction Techniques for Karst Systems Max Gustav Rudolph	193: Assessing the quantity and quality controls of the freshwater lens on a semi-arid coral-limestone island in Sri Lanka Chen Lester Wu	503: Inferring aquitard hydraulic conductivity using transient temperature-depth profiles impacted by ground surface warming Victor Bense		
17.30		257: Results and relevance of stakeholder trainings on reducing the risks associated with managed aquifer recharge (MAR) Constantinos Panagiotou		476: The isotopic fingerprints of salinization - a process-oriented approach Christoph Kuells	459: Parameter estimation of regional groundwater models: some pitfalls and a few tips Alexandre Pryet		
17.45-19.30	Movie: "Pani Check- The Sisterhood of Water" presented by the IAH Socio-Hydrogeology Network V. Re, T. Frommen	Groundwater Quality Commission Meeting D. Lapworth	AGM of Burdon Groundwater Network for International Development (BGID) A. MacDonald, V. Re	GeoEra Hover: Everything you always wanted to know about EuroGeoSurveys building a groundwater information platform* (*but were afraid to ask) L. Gourcy	Coastal Aquifer Dynamics and Coastal Zone Management (CAD- CZM) Network Meeting G. Sappa, Y. Yechieli	National Chapters Meeting I. Davey	
19.30-21.30	Welcome Reception @SQUARE						

Tuesday, Sept 7th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
8.30-9.15	<p>Keynote lecture Pieter Stuyfzand: Water quality problems and solutions with Aquifer Storage Recovery in various parts of the world</p> <p>Convener: T. Diez</p>					
9.15-10.15	<p>8. Managed aquifer recharge Conveners: C. Stefan, N. Hartog</p>	<p>2. Hydrogeochemistry Conveners: P. Stuyfzand, M. Van Vliet</p>	<p>1. Groundwater-surface water interaction Conveners: G. Verreydt</p>	<p>17. Sustainable groundwater exploitation Conveners: A. Vandenbohede, W. Verlé</p>	<p>18. Socio-Hydrogeology Conveners: T. Frommen</p>	
9.15	<p>86: Numerical modelling of the Ezousa MAR site in Cyprus using a web-based approach</p> <p>Constantinos Panagiotou</p>	<p>371: Hydrogeological investigation of the radionuclide content in groundwater in the vicinities of two crystalline outcrops in Hungary</p> <p>Petra Baják</p>	<p>327: Surface-ground water interaction: Understanding the Influence of catchment characteristics on spatiotemporal variability of perennial streamflow in a tropical landscape – a tracer based approach</p> <p>Siva Naga Venkat Nara</p>	<p>94: Water bottling industry and sustainable water resource management under global change: how Water Stewardship interacts with IWRM at watershed level?</p> <p>Nathalie Dörfliger</p>	<p>96: Development of a participatory methodology for the identification of water recharge zones in the inter- Andean valleys of Tiraque, Bolivia</p> <p>Inti Rodriguez</p>	
9.30	<p>455: Feasibility study of a Hungarian MAR pilot site</p> <p>Teodóra Szőcs</p>	<p>368: Joint use of 3H/3He apparent age and on-site helium analysis to identify groundwater flow dynamics and transport of PCE in an urban area</p> <p>Christian Moeck</p>	<p>181: The contribution of weather radar in the evaluation of meteoric recharge in hydrogeology: a case study in central Italy</p> <p>Sergio Rusi</p>	<p>176: How to efficiently clog groundwater wells: lessons learned about well aging from an extraction site in the Brussels sands, Belgium</p> <p>Alexander Vandenbohede</p>	<p>374: Behavioural classification of private well users in the Republic of Ireland: a quantitative pathway analysis approach</p> <p>Simon Mooney</p>	
9.45	<p>269: Quantitative microbial risk analysis for the subsurface as a pathogen treatment barrier</p> <p>Christoph Sprenger</p>	<p>116: Geogenic Arsenic in Groundwater Flow Systems, in a Semi-Arid area: Graben of Villa de Reyes, Mexico</p> <p>Dario Del Angel Cauich Kau</p>	<p>384: Modelling exchanges between surface water reservoirs and groundwater in basement areas: Case of Kierma (Burkina Faso)</p> <p>Serge Brouyère</p>	<p>421: Groundwater modelling as a decision support tool for the sustainable management of strategic drinking water reserves in the Chalk Aquifer (Flanders, Belgium)</p> <p>Gert Ghysels</p>	<p>87: Water stewardship, a transdisciplinary approach for sustainable groundwater management and locally addressing water related SDGs : joint initiatives in Rejoso watershed, Java Island, Indonesia</p> <p>Nathalie Dörfliger</p>	
10.00	<p>296: The impact of topography, geology and local hydrogeology on the efficiency of Managed Aquifer Recharge – a case study from the Danube-Tisza Interfluve, Hungary</p> <p>Zsóka Szabó</p>	<p>198: Groundwater age and travel time distributions in European aquifers</p> <p>Klaus Hinsby</p>		<p>102: How to set up an operational lumped model for groundwater management of a volcanic artesian aquifer</p> <p>Marc Dumont</p>	<p>186: Socio-Hydrogeology and Environmental History - Groundwater levels mirroring urban development in Berlin, 1870-2020</p> <p>Theresa Frommen</p>	
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11,00	462: Assessing the Impact of Human Activity, Managed Aquifer Recharge and Climate Change scenarios on groundwater nitrate in south Portugal Luís Costa	240: Understanding the origin of the nitrate contamination in a sandy aquifer (case of the Leeftaal-Puttebos abstraction site) Philippe Orban	262: Groundwater recharge estimation in data-sparse sub- humid aquifer of the Upper Beles Basin, Ethiopia Ashebir Sewale Belay	166: Some best practices in condition and performance tracking for wellfield asset management for sustainable groundwater supply Stuart Smith	415: Classification of private well users in Ontario for quantitative risk assessment and socio- epidemiological modelling: A cross-sectional population study Simon Mooney	
11,15	261: Assessing the potential impact of Managed Aquifer Recharge on a coastal aquifer in Guanacaste Province, Costa Rica Julián Esteban Londoño Londoño	121: A multi-parameter geochemical approach to identify blind hydrothermal systems in ocean island volcanos: looking for a diluted hydrothermal component in groundwaters at a regional scale Bhavani Benard	21: Gadolinium as anthropogenic environmental tracer in hard rock aquifers Uwe Boester	182: Multidisciplinary approach of a “free-flowing” groundwater resource for its sustainable management: the case study of Pasuruan artesian plain, Java Island, Indonesia Alix Toulter	447: The UNICEF programme to support groundwater development in Democratic Republic of Congo Fabio Antonio Fussi	
11,30	400: Enhancing the implementation of MAR technology through geospatial analysis and web-based decision support tools to cope with water scarcity in semi-arid regions of NE Tunisia Catalin Stefan	412: Identification of Cerium (Ce) anomalies in the groundwater system of coastal Rhodope (NE Greece) Evangelos Tziritis	304: Spatio-temporal variation of groundwater recharge and comparison of the different estimation techniques on a tropical basin comprising volcanic aquifers, northwestern Ethiopia Alemu Yenehun Beyene	201: Groundwater head trends and precipitation response patterns in a cross-border aquifer system Willem Zaadnoordijk	303: Impact of COVID-19 lockdown on groundwater quantity and quality in southern Italy (Campania) Daniela Ducci	
11,45	171: Implementation of a new framework for real-time monitoring and modelling of subsurface processes at a pilot managed aquifer recharge site in Pirna, Germany Catalin Stefan	445: Constraining modern and historic groundwater flow dynamics and recharge rates in large sedimentary basins using 14C ages and a coupled flow-reactive transport modeling approach Nicole Fernandez	265: Innovative real-time sensing of flow dynamics in groundwater and sediments Goedele Verreydt	352: Expanded Diameter Gravel Well (EDGW): Development and Field Demonstration of a Novel Way to Efficiently Realize Large Diameter Wells at Depth Martin Van der Schans	438: The United Nations Framework Classification for Resources: New Draft Supplemental Specifications for Groundwater Teodóra Szöcs	
12,00	324: Is Managed Aquifer Recharge (MAR) the solution for the Barind region in Bangladesh? Ane Wiersma	414: Hydrochemical, isotopic and noble gas analyses to validate the conceptual flow model of sedimentary aquifers in the Cuvelai-Etoshia Basin, Northern Kalahari Seinab Bohsung				
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12.15-13.45						Lunch/Exhibition/ Posters
13.45-14.30	Plenary lecture Alain Dassargues: The first known piezometric map in the world was published in 1856 in Belgium Convener: O. Lagneau					
14.30-15.45	4. Hydrogeophysics Conveners: T. Hermans, F. Nguyen	Special Session Groundwater Drought in Flanders and the Netherlands Conveners: P. de Louw, M. Huysmans	6. Geothermal and hydro-energy Conveners: E. Petitclerc, P. Bayer	17. Sustainable groundwater exploitation Conveners: P. Goderniaux	18. Socio-Hydrogeology Conveners: T. Frommen	
14.30	123: Improving Flanders' salinization map: applying a scale-dependent wavelet-based regularization scheme on time-domain electromagnetic inversion Wouter Deleersnyder	Impact of drought 2018-2019-2020 in Flanders Marijke Huysmans	43: Defining protection zones around closed and open shallow geothermal installations in urban aquifers Guillaume Attard	93: Groundwater availability and management in Mexico: Case of study "Toluca, Mexico", water stewardship project Nathalie Dörfliker	372: Social-ecological regulation of groundwater: linking inter-and transdisciplinary perspectives Linda Söller	
14.45	49: Monitoring salinity changes during tidal cycles using electrical resistivity tomography: a feasibility study Lore Vanhooren	Impact of drought 2018-2019-2020 in The Netherlands Perry de Louw	45: In-situ characterization of thermal plume around GHE with groundwater flows Valérie Gigot	149: 50 years of groundwater management and observations in Louvain-la-Neuve: A review and outlook for sustainable and resilient groundwater management Simon Ridley	54: Groundwater in fast-growing cities in Western Africa Claudia Ruz	
15.00	328: Advanced automated integration of AEM and drilling data Gianluca Fiandaca	Drought monitoring and modelling in Flanders Jan Corluy	142: Role of basin interplay in geothermal system operations Adam Toth	418: Groundwater level predictions using Machine Learning algorithms in the agricultural region of Campo de Dalías (Almería, Spain) Miguel Angel Diaz Hurtado	477: Sustainable Groundwater Management in Ancient Greece - lessons learnt from archeohydrogeology Christoph Kuells	
15.15	36: Imaging hydraulic conductivity in near-surface aquifers by cross- borehole Induced Polarization Lukas Römhild	Drought monitoring and modelling in The Netherlands Gé van den Eertwegh	122: The impact of different heat transfer processes on energy losses of HT-ATES wells under varying storage conditions Stijn Beernink	307: Biotic control of well incrustations in groundwater heat pump systems in Melhus, Norway Lars Aaberg Stenvik	Spring Potential mapping and vulnerability assessment of the Himalayan springs, Uttarakhand, India. A multi-disciplinary study to assess the spring-shed systems of the Himalaya Aditya Vikram Jain	
15.30	220: Automatic Integration of geophysical and borehole data : a new methodology applied on the Upper Aare Valley, Switzerland Alexis Neven	Discussion	141: The deep geothermal energy research project at Balmatt: a fractured Carboniferous limestone reservoir in Mol, Northern Belgium David Lagrou	68: Hydro-mechanical modelling of the compaction of a multi-layer aquifer system in West- and East- Flanders (Belgium) based on D- InSAR and field data Joan Botey i Bassols		
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16.30-17.45	4. Hydrogeophysics Conveners: T. Hermans, F. Nguyen	Special Session Groundwater Drought in Flanders and the Netherlands Conveners: P. de Louw, M. Huysmans	6. Geothermal and hydro-energy Conveners: E. Petitclerc, P. Bayer	17. Sustainable groundwater exploitation Conveners:P. Goderniaux	10. Regional groundwater systems and transboundary aquifers Conveners: A. Toth, H. Verweij	
16,30	184: Uncertainty quantification of salinity in costal aquifer (Binah Thuan province, Vietnam) using BEL1D inversion of transient electromagnetic data Arsalan Ahmed	Drought management and policy in Flanders Patrick Willems	204: Scientific legislation approach to Promote Sustainable Low Enthalpy Geothermal Energy Utilization Maurizio Polemio	480: Optimized approach for groundwater management for drinking water - Application to a 10 million cubic metres /year well field (South of Bordeaux – France) Marc Saltel	63: Hydrogeology of the Eastern Kalahari-Karoo Transboundary Basin Aquifer (EKK-TBA) Hans Beekman	
16,45	433: From quantitative seismic geomorphology to hydraulic conductivity: deltaic to fluvial deposits in the Pannonian Basin, Eastern Hungary Hana Ben Mahrez	Drought management and policy in The Netherlands Klaas Sloots	507: Geothermal exploration on neighborhood scale - potentials and limitations Thomas Vienken	160: Developing a methodology for Deep Groundwater Suitability Mapping: towards increased boreholes success rates for WASH programs in arid and semi-arid areas Daniela Benedicto van Dalen	237: Towards joint groundwater management of the Roer Valley Graben: inventory and analysis of hydraulic conductivity values of the aquifer system as follow-up on the H3O-projects Jelle Buma	
17,00	299: The useful role of airborne electromagnetics data reprocessing for hydrogeological purposes: a case study in Cobar Region, New South Wales, Australia Antonio Menghini	Solutions towards a climate-robust (drought-resistant) water system Victor Dries	292: New geological, hydrogeological and geothermal insights into the potential of the Cambrian basement for geothermal energy in Brussels, Belgium Estelle Petitclerc	251: Capacity recovery of boreholes with hydropuls technology – case studies (France & Indonesia) Pierre Belle	72: Pretashkent Transboundary Aquifer: interim results of the GGRETA project in Central Asia Oleg Podolny	
17,15	302: Well clogging detection using real- time AH-DTS groundwater flow monitoring Pieter Doornenbal	Solutions towards a climate-robust (drought-resistant) water system Tobias Renner	80: Simulation of a geothermal aquifer storage in Brussels showing the need for a better balanced system with regards to the local hydrogeological conditions Thierry Duren	355: Groundwater availability forecasting for irrigation management Andreas Panagopoulos	353: Exploitation Potential of Brackish Groundwater Resources in Jordan Henning Moe	
17,30	410: On pressure, temperature and tidal effects in deep piezometers Mathias Possemiers	Discussion		232: Sustainable yield of hydrothermal areas: some experimentation in central and southern Italy Vincenzo Piscopo	57: Reckoning with EU-WFD guidances to address transboundary aquifer monitoring strategies. An application to the Skadar/Shkoder - Buna/Bojana hydrogeological system Laura Del Val	
17.45-18.15	IAH2022 - IAH2023 - IAH2023 Présentation					
18.15-19.30	IAH General Assembly					

Wednesday, Sept 9th, 2021

Departure from : Place Royale	Fieldtrip number	Fieldtrip destination
8.20	1	Dewatering in Liège: Dealing with hydraulic consequences of coal mining and flood events
8.20	2	Valorization of dewatering groundwater abstracted from large limestone quarries
8.20	3	Quartier Bleu Hasselt – Shopping and living on green energy in the heart of Hasselt The Beringen colliery – coal past and subsidence
7.40	4	Wastewater recycling and managed aquifer recharge (MAR) at the Belgian coastal area (Sustainable water management of water resources)
8.00	5	Modave – The biggest groundwater catchment in Belgium and a beautiful castle.
7.40	6	Spa – Groundwater from the heart of nature
8.00	7	The HADES underground research laboratory (EIG EURIDICE), the hydrogeological research at SCK CEN, and the Balmatt deep geothermal power plant (VITO)
8.00	8	Rocheft area and its Devonian limestone fractured and karstic aquifers
8.00	9	Stone, chemistry and groundwater : a wallon story
Cancelled	10	Dewatering and Geothermal exploitation in the Mons Sedimentary Basin
7.40	11	Management of nitrate and pesticides vulnerability in karstic groundwaters

Thursday, Sept 9th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
6.30-7.30	RUN FOR WATER - Cultural jogging					
8.30-9.15	Keynote lecture Ineke Kalwij: Imagine Living in a World with No Groundwater Convener: M. Huysmans					
9.15-10.15	8. Managed aquifer recharge Conveners: C. Stefan, P. Stuyfzand	2. Hydrogeochemistry Conveners: K. Hinsby, T. Szocs	10. Regional groundwater systems and transboundary aquifers Conveners: A. Toth	12. Urban groundwater and resilience Conveners: S. Brouyère, A. Dassargues	16. Groundwater governance, policy and management Conveners: J. November, S. Mustafa	
9.15	5: Implementation of a large-scale aquifer recharge project in a multi- screen coastal plain aquifer Meredith Martinez	219: Application of environmental isotopes 3H and 14C to determine the groundwater age in shallow and deep aquifers in the Eastern Desert of Egypt Uwe Troeger	392: What is impacting transboundary aquifers? Climate or global changes? Serge Brouyère	196: What Drives Cities to Adopt Groundwater Banking? A Cross- Case Analysis of U.S. Cities Lauren Bartels	450: How do we ensure that hydro(geo)logical models serve the society better? Syed Md. Touhidul Mustafa	
9.30	252: Controlling factors for improving freshwater recovery of ASR systems in confined coastal aquifers using brackish groundwater interception wells: a generic modeling study Teun Van Dooren	222: Integrated studies for hydrogeological, geophysical and hydrochemical characterization of Dupi Tila aquifer, Dhaka city, Bangladesh Mazeda Islam	406: Carboniferous limestone transboundary aquifer case (Belgium/France) Guillaume Vandelois	48: Impact on individual primary energy consumption due to subsurface interactions between ATES systems Stijn Beernink	104: Stakeholder perspective analysis to improve the sustainable groundwater management in four water- stressed Mediterranean areas Roberta Boni	
9.45	351: Managed aquifer recharge as an option for sustainable management of karstic aquifer of the island of Vis, Croatia Matko Patekar	322: Groundwater recharge and flow in periglacial environments: Understanding the mechanisms based on the Ledo-Paniselian aquifer in Belgium Kristine Walraevens	55: Transboundary Diagnostic Analysis and Strategic Action Plan of the Eastern Kalahari-Karoo Transboundary Basin Aquifer system (EKK-TBA) Hans Beekman	31: Supporting the sustainable development of Brussels by modelling and visualizing its subsoil Mathieu Agniel	310: Co-developing a demonstration project, aiming at reducing water stress within an climate change context, with stakeholders in the Pout Area, Senegal Sandra Galvis	
10.00	456: Long-term environmental benefits of the Soil Aquifer Treatment (SAT) scheme in Agon-Coutainville (Normandy, France) Géraldine Picot-Colbeaux	223: Harmonisation of groundwater quality data and groundwater age data for transboundary groundwater management of the Dutch, Flemish and German area of the Roer Valley Graben Marielle Van Vliet	413: Coupling hydrogeochemical data and structural modelling to enhance understanding of groundwater circulation controlled by faults in northern Sardinia (Italy) Cyrill Labry	37: Complementarity of D-InSAR and levelling in monitoring ground deformation related to the dewatering of urban construction sites. A case study of Glòries Square, Barcelona Joan Botey i Bassols	199: Integrated and sustainable management of subsurface resources - Introducing the contributions of the four GeoERA groundwater projects to the European Geological Data Infrastructure Klaus Hinsby	
10.15-11.00						Coffee/Exhibition/ Posters

Thursday, Sept 9th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
10.15-11.00						Coffee/Exhibition/ Posters
11.00-12.15	8. Managed aquifer recharge Conveners: C. Stefan, P. Stuyfzand	2. Hydrogeochemistry Conveners: K. Hinsby, T. Szocs		12. Urban groundwater and resilience Conveners: S. Brouyère, A. Dassargues	16. Groundwater governance, policy and management Conveners: J. November, S. Mustafa	
11,00	244: Managed Aquifer Recharge to Increase Freshwater Availability in a Salinized Flemish Polder Area Dieter Vandeveld	150: Multi-isotopic screening at regional scale in Northern Italy: implication on groundwater management for "Water Alliance" drinking water suppliers Marco Petitta		189: Modelling the Thermal Efficiency of Low Temperature Aquifer Thermal Energy Storage for a District Energy Scheme in the Chalk Aquifer of the London Basin Huw Williams	191: The Voluntary Groundwater Watch List – A New Tool for Ensuring Long-term Quality of Groundwater Across Europe Emanuele Ferretti	
11,15	183: Switching between open and subsurface infiltration according to temperature Emmanuel Van Houtte	305: Hydrogeochemical and isotopic characteristics of thermal sulphur springs along the Slovenian coast Petra Žvab Rožič		195: Modelling land subsidence caused by groundwater exploitation and revealed by geodetic InSAR measurements in the Leuven area Aline Moreau	423: Recognition of drilling companies: an improvement in quality of drilling and reporting? Ywan De Jonghe	
11,30	357: Transport and fate of plant pathogenic bacteria during managed aquifer recharge: microcosm and column studies Carina Eisfeld	443: Groundwater origin determination and groundwater flow modeling coupled with isotope analysis in endemic ecosystems over the coastal desert of Peru Saul Alberto Montoya Heredia		126: Long-term groundwater temperature trends in Cologne, Germany Hannes Hemmerle	90: Impact of climate changes on water supply in Wallonia Louise Collier	
11,45	234: Assessing the economic value of Managed Aquifer Recharge. Case Study: MAR scheme in the Pwales Groundwater Body – Malta Manuel Sapiano	345: Characterization of the main karst aquifers of the middle Valseriana (Northern Italy) based on isotopic and hydrogeochemical data: Nossana and Ponte del Costone springs Andrea Citrini		11: Erosion of silicate grouting in construction pits, what are the effects on groundwater? Gerhard Winters	311: Positive impact of watershed protection on chloride concentration in shallow groundwater (Plateau de Gavot, Haute-Savoie, France) Louis Rey	
12,00	354: Causes and Prevention of Clogging During Sub-irrigation of an Agricultural Field: a Detailed Field Pilot Using Treated Effluent Martin van der Schans	298: The origin of anomalous electrical conductivity horizons and brackish bedrock groundwater Kaisa Turunen		379: Building an integrated methodology for water resource assessment and management in urban coastal areas of southern Philippines: Preliminary Hydrogeological Findings Pascal Goderniaux	391: Integrated surface and groundwater resources management in a coastal aquifer (Cap Bon Peninsula-NE of Tunisia) Ichrak Khammssi	
12.15-13345						Lunch/Exhibition/ Posters

Thursday, Sept 9th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
12.15-13.45						Lunch/Exhibition/ Posters
13.45-14.30	Plenary lecture					
14.30-15.45	5. Groundwater and climate change Conveners: M. Dumont, M. Polemio	1. Groundwater-surface water interaction Conveners: M. Van Camp, B. Rogiers	7. Karst/fractured rock Conveners: M. Petitta	12. Urban groundwater and resilience Conveners: S. Brouyère, A. Dassargues	19. Groundwater and the SDG's Conveners: F. Fussi	
14,30	243: Climate change and groundwater depth influence on recharge parameterization in a transient MODFLOW model Matej Gedeon	233: Investigation of river-aquifer interactions in Belgian lowland floodplains using a combination of heat and hydrochemical tracers, data-driven and process-based modelling Min Lu	254: Comparison of methodological approaches to describe the hydrodynamic response of a coastal karst aquifer: the case of Salento aquifer (Italy) Gabriella Balacco	407: Recent advances in the use of process-based groundwater vulnerability for risk mapping Serge Brouyère	460: Channeling resources during droughts through deep learning- based analysis of satellite imagery data Thomas Chen	
14,45	50: Groundwater warming in Central Europe Peter Bayer	91: Hydrogeological characterization of crystalline bedrock using Borehole Magnetic Resonance at a mining development site, Northern Finland Salla Eeva	295: Multi-disciplinary approaches in scarce data area: the best way to produce a robust Preliminary Conceptual Model Benjamin Baud	253: Preventing pluvial flooding while providing fresh water during droughts: a field pilot with rainwater harvesting and aquifer storage and recovery in the city of Rotterdam Teun Van Dooren	441: Estimation of groundwater potential for manual drilling using a machine learning approach and a groundwater database in South Western Democratic Republic of Congo (DRC) Fabio Antonio Fussi	
15,00	214: Multiple drought impact (2018- 2019-2020) on the groundwater system of the Dutch sandy area Perry De Louw	230: Groundwater-stream water interaction as a controlling factor for nitrate concentrations in stream waters in Flanders (Belgium) Marc Van Camp	331: Dynamic Controls on Hydro- Physico-Chemical Signal Transmission in Karst Systems Alireza Kavousi	431: From quantitative seismic geomorphology to hydraulic conductivity: deltaic to fluvial deposits in the Pannonian Basin, Eastern Hungary Michelle Rygus	329: Conflicts of use: groundwater must always be preferred for drinking water Michel Bakalowicz	
15,15	26: Groundwater drought propagation in the hydrological cycle and its impact on river discharge: a case study on Dijle River, Belgium Buruk Kitachew Wossenyeleh	164: Identification of potential sites of groundwater / surface water interaction at the Artois-Picardie basin scale Alexandre Brugeron	364: Strengthening fundamental and innovative karst approaches for upgrading groundwater vulnerability assessment Michael Sinreich			
15,30	153: Mapping the susceptibility of groundwater to drought across the Republic of Ireland using a machine learning model Philip Schuler	131: Improved representation of groundwater-surface water interaction in SWAT+ for wetland and drought simulations Estifanos Addisu Yimer				
15.45-16.30						Coffee/Exhibition/ Posters

Thursday, Sept 9th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
15.45-16.30						Coffee/Exhibition/ Posters
16.30-17.30	5. Groundwater and climate change Conveners: M. Dumont, M. Polemio	13. Groundwater and ecosystems Conveners: B. Rogiers, B. Ronchi	7. Karst/fractured rock Conveners: M. Petitta	3. Groundwater contamination Conveners: D. Ducci, L. Rosen		
16,30	323: Mapping drought severity over Flanders for policy purposes Jasper Claus	109: Preliminary Assessment of Local Water Shared Challenge as First Step of Water Stewardship Journey: Study Case Pandaan Watershed, East Java, Indonesia Benjamin Baud	51: Modeling the diffusive behavior of helium and uranine in a porous/fractured chalk aquifer Richard Hoffmann	74: Solid data sets are essential to provide reliable solutions. A practical example of improved insights by a High Resolution Site Characterization approach Michael Borremans		
16,45	320: Hydrogeological modelling of the Tsanfleuron glacierized karst aquifer to assess future water availability Carole Doucerain	221: Groundwater-fed ecosystems under pressure of nutrient-enriched groundwater Jelmer Nijp	482: Preliminary assessment of sediment transport and associated bacteriological contamination in a mountainous rural karst area (Sierra de Ubrique, S Spain) Jaime Fernández-Ortega	107: Seasonal recharge vs regional flow effects on antibiotic occurrence in groundwater Josep Mas-Pla		
17,00	458: A methodological approach for the effective infiltration assessment in a coastal groundwater Maria Chiara Porru	70: Estimating the effect of wildfires on groundwater recharge rates through soil water balance models Monica Guzman	203: Earthquake-induced groundwater flow modification revealed by a hydro-structural study in the Sibillini Mts (Central Italy) Davide Fronzi	224: Discrimination of the natural geochemical background of anthropogenic geochemical inputs: conceptual analysis applied to the characterization of groundwater masses Philippe Lionel Ebengue Atega		
17,15	316: Using convolutional neural networks to evaluate long-term groundwater trends in Germany Stefan Broda	206: Improving groundwater dynamics in restored tidal marshes: an explorative field and modelling study Niels Van Putte	340: Aquifer characterization of the volcanic province and alluvio- lacustrine deposit in the Lake Tana basin (in the Upper Blue Nile), Ethiopia Fenta Nigate			
17.30-19.00		IAH Strategic Planning Meeting I. Davey	Meeting of the Network of Fractured Rock Hydrogeology U. Troeger	Managing Aquifer Recharge (MAR) Commission C. Stefan	AGM of the Socio-Hydrogeology Network T. Frommen	
19.30-...	GALA DINNER @ AUTOWORLD					

Friday, Sept 10th, 2021

	Gold Hall	The Arc	Hall300	Meeting Studio 311-312	Meeting Studio 313-315	Grand Hall 2
8.30-9.15	Keynote lecture Veena Srinivasan Convener: M. Huysmans					
9.15-10.15	3. Groundwater contamination Conveners: B. Ronchi D. Ducci	15. Advances in hydrogeology of the critical zone Conveners: T. Vienken, T. Robert	4. Hydrogeophysics Conveners: A. Vandenbohede, F. Nguyen			
9,15	449: The use of phytoscreening to assess the occurrence of vinyl chloride in the shallow critical zone at illegal dumping sites with potential exposure for residents Maria Filippini	59: Modeling hot and cold water injections in a fractured aquifer: Influence of the thermal gradient direction on measured breakthrough curves Richard Hoffmann	200: Airborne electromagnetics detects new groundwater potable resources for future generations: a case study from Brescia, Italy Matteo Gisolo & Luca Spagnoli			
9,30	66: Nitrates in groundwater: a long term problem in England Jane Dottridge	135: Simulation of water flows in a tailings pile at the former uranium mine Le Cellier (Lozère, France) Ahmeda Assann Ouedraogo	308: Characterization of high transmissivity aquifer by 2D, 3D electrical resistivity tomography and proton magnetic resonance in hard rock context Pierre Belle			
9,45	60: Determining relevant aquifer factors and their relative importance in the assessment of aquifer vulnerability Lamine Boumaiza	378: Producing aquifer water table maps using a remote sensing method based on the observation of pastoral wells – Application to Tullemeden basin aquifers (Niger) Bernard Collignon				
10,00	416: Modelling fluoride contamination of groundwater in Ghana to estimate the exposed population with a focus on children Dahyann Araya					
10.15-11.00						Coffee/Exhibition/ Posters
11.00-11.30	Young Hydrogeologist Keynote lecture Agathe Defourny					
11.30-12.45	Closing act					