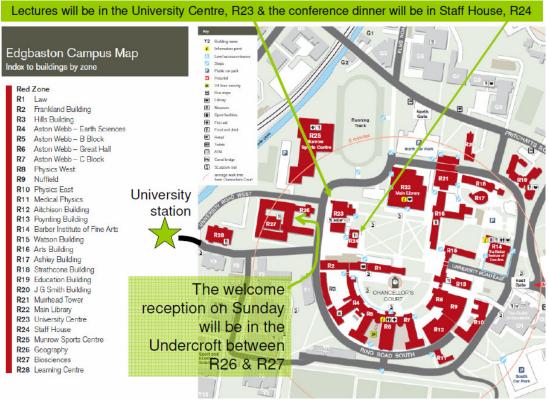


JOINING INSTRUCTIONS

(there are separate instructions for those attending the pre-conference workshop and field trip) For directions to the university see:

http://www.birmingham.ac.uk/contact/directions/getting-here-edgbaston.aspx



Arrival Sunday 21st June

Registration is in the Undercroft (see map above). A registration desk will be available from 16:00 and a drinks reception will be held from 18:30-21:00 hours.

Main conference day 1: Monday 22nd June

Registration and conference sessions will be held on the second floor (3rd level) of the University Centre (R23 on map above) where there is a large lecture room (The Avon Room) and an adjacent lounge in which posters will be displayed and where refreshments and the buffet lunch will be served. Registration will commence at 08:30 and the Conference will start at 09:00.

Keynote lectures have been allocated 30 minutes for their presentations and all other lectures have been allocated 15 minutes. Speakers may choose to use the whole of their allotted time or finish early to allow time for questions. In addition a 15 min slot has been allocated at the end of each block of lectures for questions to any author in that slot and for discussion of the points raised

Draft Programme (as of 3rd June 2015) (subject to change as some speakers have not yet obtained a travel visa)

Saturday June 20th 09:00-17:00.

Workshop for consultants and professionals: Groundwater in Carbonate Rocks

Sunday June 21st

08:15 - 20:30: Fieldtrip: Groundwater in Cretaceous Carbonates
16:00 - 21:00: Registration and (from 18:30) Welcome Reception In the Undercroft (between Biosciences and Geography buildings)

Monday June 22nd 08:30 - 19:30 Avon Lounge & Lecture Theatre, University Centre

08:30 - 09:00: Registration

09:00 - 10:45: SESSION CHAIR - PROFESSOR IAN FAIRCHILD

09:00 - 09:10: Welcome from University and IAH

09:10 - 09:30: Prof John Gunn: British carbonate karst environments

Conference theme 1: Lithological, structural & stratigraphical influences on karst groundwaters

09:30 - 10:00: Keynote Lecture by Dr Pierre-Yves Jeannin

10:00 - 1	10:45
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Farrant, A.R.	Stressed out: determining preferential flow pathways in karstic aquifers from cave survey data
Auler, A.S.	Paragenetic initiation and later overprint in cave passages: a review from Brazil
Klimchouk, A.	Functional organization and lithostratigraphic control of a large hypogene cave system in the Precambrian carbonates, NE Brazil

10:45 - 11:15 Refreshment break in the lounge outside the lecture theatre

11:15 - 13:10 : SESSION CHAIR - DR IRA SASOWSKY

Gautrey, S.J.,	Relative importance of lithologic, stratigraphic and structural controls of karst conduit development at the Victor Diamond Mine, James Bay Lowlands, Ontario, Canada
Hunt, B.B.	Influence of faulting and relay ramp structures on groundwater flow in the Karstic Edwards and Trinity Aquifers, Central Texas, USA
Mylroie J.E.	Fresh-Water Lens Dissolution: The Lack of Strong Lithologic and Structural Control in a Laminar and Transitional Flow System
Palmer, A.N.	Duration and Significance of Vadose Perching in Karst: Mammoth Cave Region, USA
Petrus, K	Influence of layering on the formation and growth of dissolution pipes in karst systems
Raeisi, E.	Parameters controlling the general groundwater flow of the carbonate karst aquifers in the Zagros Simply Folded Belt

12:45 - 13:10 Questions for authors and discussion on Theme 1

13:10 - 14:00 Buffet lunch in lounge outside the lecture theatre

14:00 - 15:45 : SESSION CHAIR - DR CHRIS BRADLEY

Conference theme 2: Modelling Karst Groundwater Systems

14:00 - 14:30: Keynote Lecture by Dr Andreas Hartmann:

Modelling karst hydrology - a balance of available information and model complexity

14:30 - 15:45

Kordilla, J.	Approaches for modelling of flow and transport in unsaturated fractured aquifers - from catchment to pore scale
Kovacs, A.	What can we learn from hydrograph analysis? Theory and examples
Dewaide, L.	Double-peaked breakthrough curves: from field data to laboratory analogue tests. A study case in the Dinant area (South of Belgium)
Dubois, C.	Hydrogeological modelling and upscaling of weathered karst aquifer by a distributed porosity approach
Johannet, A.	Neural networks modelling for long-term prediction of Albarine river discharge for various scenarios of global change (Ain basis - southern France)

15:45 - 16:00 Questions for authors and discussion on Theme 2

16:00 - 16:30 Refreshment break in lounge outside the lecture theatre

16:30 - 18:15 : SESSION CHAIR - DR STEVE WORTHINGTON

16:30 - 18:00

10.50 10.00	
McCormack, T.	Quantification of submarine/intertidal groundwater discharge from a lowland karst catchment
Streetly, H.R.	A water resource management tool for the Cotswolds Oolitic Limestone aquifers: Using the EA's MODFLOW/4R approach to regional groundwater modelling in a complex karstic system
Oehlmann, S.	Reducing the ambiguity of karst aquifer models by pattern matching of flow and transport on catchment scale
Zhdanov, S.V.	Thermodynamic and kinetic modelling groundwater - carbonate rocks interactions for karst terrain Izhora plateau, Russian Federation
Giese, M.	Significance of parameters and processes for the evaluation of large scale tests in karst aquifers with numerical hybrid models
Reimann, T.	Determination of controlling parameters for hydrodynamic and physicochemical signatures of karst aquifers by distributed parameter hybrid models

18:00 - 18:15 Questions for authors and discussion on Theme 2

18:30 - 19:30 Business Meeting of IAH Karst Commission in the Avon Lounge

Tuesday June 23rd 09:00 - 14:00 Avon Lounge & Lecture Theatre, University Centre

09:00 - 10:30 : SESSION CHAIR - PROFESSOR NICO GOLDSCHEIDER

Conference theme 2: Modelling Karst Groundwater Systems

09:00 - 10:15

07.00 10.15	
Andreo, B	Monitoring natural responses of karst springs water to characterize the hydrogeological functioning of Sierra de Jarastepar-Alto del Conio aquifer (S. Spain)
Fiorillo, F.	Long-term trend and fluctuations of karst spring discharge in central-southern Italy
Gill, L.W.	Use of stable isotopes to characterise the hydrogeology of a lowland karst aquifer
Malik, P.	Recession curve analysis and water temperature vs. discharge relationship of karstic springs on the northern rim of the Silicka Planina Plateau (Slovakia)
Paiva, I.	The characterization of karst hydrological functioning based on spring responses analysis

10:15 - 10:30 Questions for authors and concluding discussion on Theme 2

10:30 - 11:00 Refreshment break outside the lecture theatre

11:00 - 13:10 : SESSION CHAIR - PROFESSOR JOHN GUNN

Conference theme 3: The ecology of karst groundwaters

11:00 - 11:30 Keynote Lecture by Prof Dr Christian Griebler

Key drivers and major limitations of microbial growth and carbon cycling in natural and stressed groundwater ecosystems

11:30 - 12:45

Di Lorenzo, T	Is metabolism a key factor in determining groundwater copepod sensitivity to pollutants?
Galassi, D.M.P	Monitoring karstic springs: the role of groundwater meiofauna as indicators of aquifer hydrodynamics
Malard, F.	Multi-causality & spatial non-stationarity in the determinants of groundwater biodiversity patterns in Europe
Maurice, L.	The invertebrate ecology of Chalk groundwaters
Weitowitz, D.C.	Towards a new typology of subterranean habitats: Defining geohabitats for groundwater ecosystem investigations

12:45 - 12:55 Questions for authors and discussion on Theme 3

12:55 - 13:10 Posters (each presenter will have a 2-minute slot to introduce their paper and the posters will be displayed outside the lecture theatre in the lunch area)

Cifoni, M.,	A protocol for a development, reproduction and population growth test with freshwater copepods
Fiasca, B.,	The EC-AQUALIFE Project in Italy: state of the art and future prospects
Knight, L.R.F.D	The aquatic invertebrate fauna of the Ogof Draenen cave system in South Wales
Knight, L.R.F.D.	Auto-ecological studies on Niphargus glenniei (Spooner, 1952) and Niphargus aquilex (Schiodte, 1855)
Robertson, A.L.	Groundwater flooding: Responses of groundwater ecosystems to an extreme recharge event.
Stubbington, R.	Density and richness estimates of invertebrates at the surface water - groundwater interface reflect the pump sampling method used
Wood, P.	Groundwater and macroinvertebrate recovery on the River Lathkill (Derbyshire) following supra-seasonal drought

13:10 - 14:00 Buffet lunch and poster viewing outside the lecture theatre

Tuesday June 23rd 14:00 - 17:30

Free-time or one of:

- Workshop on modelling carbonate chemistry (pre-booking required; meet Ian Fairchild in Avon lounge at 13:55)
- Workshop on groundwater fluorescence (pre-booking required, meet Chris Bradley in Avon lounge at 13:55)
- Workshop on carbonate groundwater ecology (meet Paul Wood in Avon lounge at 13:55)
- Field excursion to historic underground limestone quarry workings and canals near Dudley (pre-booked participants, departs 2 p.m. sharp from East Entrance see separate joining instructions)

Tuesday June 23rd 19:00 for 19.30 dinner

Conference dinner, Noble Room, 3rd floor Staff House, with illustrated after-dinner talk by **Professor Derek Ford**: *Karst and karst aquifers in the Northwest Territories of Canada: A Review.*

Wednesday June 24th 09:00 - 18:30 Avon Lounge & Lecture Theatre, University Centre

09:00 - 10:45 : SESSION CHAIR - DR AUGUSTO AULER

Conference theme 4: Human-Karst Groundwater Interactions

09:00 - 09:30 Keynote lecture by Prof Dr Nico Goldscheider A holistic perspective of karst systems, their services for humanity, and human impacts on karst

09:30 - 10:30

Blum, P.	Agriculture impact on nitrate concentrations in karst aquifers in Ireland
Mellander, PE.	Groundwater vulnerability assessment of an agricultural karst landscape
Bajtos, P.	Environmental and emergency risks induced by mining in gypsum karst area (spisska Nova Ves, Slovakia)
Cowell, D.W.	Induced karst features in the drawdown zone of an open pit diamond mine in Ontario's James Bay Lowland, Canada

10:30 - 10:45 Questions for authors and discussion on Theme 4

10:45 - 11:15 Refreshment break outside the lecture theatre

11:15 - 13:10 : SESSION CHAIR - DR ART PALMER

11:15 -	12:30
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11.15 - 12.50	
Schindel, G.	Strategies for the response to hazardous materials releases in Karst
Buckley, R.	Use of a 'lines of evidence' approach for Source Protection Zone delineation in the Corallian Limestone Aquifer of North Yorkshire
Streetly, M.J.	Use of transient soil moisture balances and simple 1-D stores for investigating and protecting groundwater resources
Cook, S.	Regional groundwater modelling of the Brighton and Worthing Chalk aquifer to both investigate the impacts of groundwater abstraction on surface water flows and to predict and optimise the source reliable output from public water supply source.
David, PY.	Participatory tool to improve knowledge, management and protection of the karstic chalk aquifer system in Eastern Normandy

12:30 - 12:45 Questions for authors and discussion on Theme 4

12:45 - 13:10 Posters (each presenter will have a 2-minute slot to introduce their paper and the posters will be displayed outside the lecture theatre in the lunch area)

Chemseddine, F	Vulnerability of urbanisation in karst areas (Northeast Algeria)
Chemseddine, F	Characterisation of the main Karst aquifers of the Tezbent Plateau, Tebessa Region, Northeast Algeria, based on hydrogeochemical and isotopic data
Coxon, C	Microbial quality of Irish karst springs: implications for management of water supplies
Crow, A	Mapping Groundwater Flooding in the Republic of Ireland
Farr, G	The Great Spring, South Wales UK: updating a Source Protection Zone in a complex karst aquifer
Hartmann, A.	A database to assess impacts of land use and climate change on Europe's karst regions
Herms, I	Isotopic and hydrogeochemical characterization of karst aquifer in the Port del Comte (Lerida, Spain).
Jeannin, P-Y	Assessment of annual resources in Swiss karst aquifers
Jebreen H	Hydrochemistry and effect of karst on spring water in the Soreq catchment, Ramallah, West Bank
Khamis, K	Monitoring water quality using a through-flow fluorescence sensor
Krajnc, B.	Cave air dynamics and drip water geochemistry in Pisani rov-Postojna cave (Slovenia)
Venturieri, E.M.	An applicable model for karst in Gambier limestone in order to improve the water management in Mount Gambier region, southeast South Australia.

13:10 - 14:00 Buffet lunch and poster viewing outside the lecture theatre

14:00 - 15:45 SESSION CHAIR - PROFESSOR CATHERINE COXON

14:00 - 15:30

Karami, G.H.	Investigation of presence or lack of hydraulic connection between Emam-Gheise karst spring and water wells of Shahreza, Iran	
Jiang, G.	Utilization of rainwater harvesting in bare karst areas for domestic use and ecological restoration	
Liu, H.	The response of Heilongtan spring to the 2010-2012 consecutive droughts of Yunnan Province, China	
Zhu, Y	Optimization of Groundwater for urban water supply and energy use in karst areas	
Schomburgk, S.	Representation of karst units in the Aquifer Reference System of France - BDLISA: challenges of small- scale mapping	
Schmidt, S.	Evaluation of rapid recharge processes and spring source vulnerability of karst aquifers in semi-arid environments based on high-resolution monitoring	

15:30 - 15:45 Questions for authors and concluding discussion on Theme 4

15:45 - 16:15 Refreshment break outside the lecture theatre

16:15 - 18:15 : SESSION CHAIR - PROFESSOR TIM ATKINSON

Conference theme 5: Isotopes and water tracing

16:15 - 18:00

Jeelani, G	Estimating the sources of recharge to karst spring flows in a snow and glacierized catchment, western Himalaya (India)	
Muhammad, F.	Chemical and isotope characteristic of the surface water in Karst dominated area of Kinta Valley, Malaysis	
Yonge, C.J.	Stable isotope comparison of two major karst valley systems in the Canadian Rockies	
Ender, A.,	In-cave tracer tests during dry and wet season with spatial resolution of transport parameters in a tropical karst aquifer	
Goeppert, N.	Advances in colloid and particle tracing with applications in karst hydrogeology	
Liu, Z.	Hydrologically-driven variations in the karst-related carbon sink fluxes: insights from high-resolution monitoring of three karst catchments in Southwest China	
Poulain, A.	Complex hydrogeological dynamic of the Lomme Karst System (Belgium) characterized by high resolution monitoring and tracer tests	

18:00 - 18:15 Questions for authors and concluding discussion on Theme 5

18:15 - 18:30

Formal close of meeting and presentation of 'Young Karst Researcher' awards

(followed by briefing session for those attending the field trips)

Thursday June 25 th	08:15 - 20:30: Fieldtrip: <i>Groundwater in Jurassic carbonates</i>
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Friday June 26th 08:15 - 20:30: Fieldtrip: *Groundwater in Carboniferous carbonates*