

# Groundwater

## Managing our Hidden Asset



**13 – 14 September 2016, University of Birmingham, UK**

A two-day conference to celebrate the International Association of Hydrogeologists 60<sup>th</sup> anniversary and the Geological Society Year of Water. The conference incorporates the **Ineson Lecture** and re-launch of **Groundwater our Hidden Asset** supported by the Groundwater Forum.

Confirmed conference speakers and titles below with 30 confirmed posters:

**Tuesday 13-Sep-2016**

**Registration 9:00 am to 09:50 am followed by conference opening address**

**Speaker programme from 10:00 am to 1.00 pm**

**Speaker      Affiliation      Title**

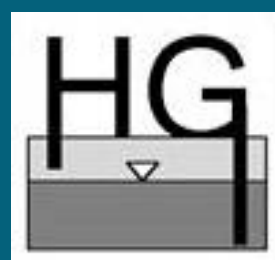
**AM: Session 1 Groundwater and energy**

Alistair Wyness	IPIECA	2030 Water Visioning for the Oil and Gas Sector
Tim Bartlett	Advisian	Water challenges in hydrocarbon exploration and production : recognising and integrating the full value of water management
Simon Mathias	University of Durham	Impact of maximum allowable cost on CO2 storage capacity in saline formations
Mark Lee	Atkins	Groundwater considerations for new energy generation infrastructure

**Discussion followed by refreshments**

John Black	In Site Hydro	A new approach to understanding and characterizing groundwater flow in low permeability fractured crystalline rocks
Lindsay McMillan	University of Birmingham	Inverse modelling to understand contaminant transport experiments in a highly heterogeneous shear zone at the Grimsel Test Site in Switzerland
Rachel Bell	BGS	Shale gas groundwater baseline investigations in north west England
Catherine Isherwood	RSKW	Development of a screening method to assess potential impacts on groundwater resources from shale gas developments

**Discussion followed by lunch**



UNIVERSITY OF BIRMINGHAM

**Convenor Contacts**

*Michael Rivett*

m.o.rivett@bham.ac.uk

*Adrian Butler*

a.butler@imperial.ac.uk

*Tim Besien*

tim.besien@environment-agency.gov.uk

*James Assem*

james.assem@advisian.com

**Venue**

Bramall Music Building auditorium  
University of Birmingham, UK

**Registration see website**


IAH and Geological Society

Members rate of £220

Non-members rate £300

Student rate £150

Follow us on twitter :

 <https://twitter.com/search?q=gwmoha>  
#gwmoha

 **VAN WALT**  
Confidence - Technology - Choice

 **rshydro**

# Groundwater

## Managing our Hidden Asset



13 – 14 September 2016, University of Birmingham, UK

Tuesday 13-Sep-2016

Speaker programme from 2:00 pm to 5.00 pm

<u>Speaker</u>	<u>Affiliation</u>	<u>Title</u>
<b>PM: Session 2 Groundwater resources</b>		
Nigel Hoad	Environment Agency	Water Framework Directive and the Application of Groundwater Models
Will Rust	Cranfield University / Atkins	Multi-scale climate control on groundwater risk: A Synthesis
John Bloomfield	BGS	Is there any evidence for changes in the nature of groundwater drought in the UK since 1890?
Simon Cook	Southern Water	Modelling Groundwater Source Deployable Outputs in Severe Droughts

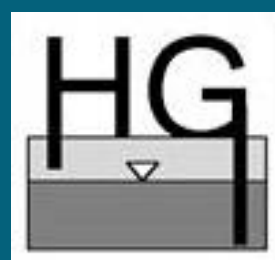
### **Discussion followed by refreshments**

Kirsty Upton	BGS	Multi-scale modelling of boreholes yields for Deployable Output assessment in Chalk aquifers
Mike Jones	Thames Water	What's in store for managed aquifer recharge?
Donal Neville	GWP	Semi-arid Groundwater Resources, Goldfields, Western Australia – Valuing the Potential Yield of Metasedimentary Fractured Rock Aquifers
Griet Heuvelmans	Flanders Environment Agency	A method for quantitative status assessment of confined groundwater bodies

Re- launch of the revised edition of “**Groundwater our hidden asset**”

**Whitaker Medal** presentation during dinner to Professor John Tellam

Followed by a **Drinks Reception** with poster presentation and **Evening Dinner** supported by our sponsors *rshydro* and *Van Walt*



#### Convenor Contacts

*Michael Rivett*

m.o.rivett@bham.ac.uk

*Adrian Butler*

a.butler@imperial.ac.uk

*Tim Besien*

tim.besien@environment-agency.gov.uk

*James Assem*

james.assem@advisian.com

#### **Venue**

Bramall Music Building auditorium  
University of Birmingham, UK

#### **Registration see website**


IAH and Geological Society

Members rate of £220

Non-members rate £300

Student rate £150

Follow us on twitter :

 <https://twitter.com/search?q=gwmoha>  
#gwmoha

# Groundwater

## Managing our Hidden Asset



Wednesday 14-Sep-2016 Registration 9:00 am to 9:30 am

Speaker programme from 9:30 am to 1.00 pm

**Speaker**      **Affiliation**      **Title**

**AM: Groundwater and ecosystem services**

Tim Johns	Environment Agency	Integrating geology and groundwater ecology: an overview of UK studies
Anne Robertson	University of Roehampton	Stygobite grazing on groundwater biofilms
Alex Gallagher	Wardell Armstrong	Geological controls on alkaline fen habitats – insights from quarrying in the Peak District
Debbie White	BGS	Hydrogeochemical investigations of an acidic coastal dune system, Winterton-on-Sea, Norfolk,

**Discussion followed by refreshments**

Angela Haslam	Environment Agency	Quantifying combined atmospheric and groundwater nutrient deposition pressures at groundwater dependent terrestrial ecosystems
Arnaud Duranel	University of St Etienne	Integrated hydrological modelling of a groundwater-dependent valley mire in central France
Mike Streetly	ESI	Combining observed relationships between abstraction and aquatic ecology with groundwater models to assess the effectiveness or water resource management options

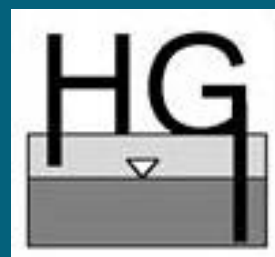


**2016 Ineson Lecture Future challenges in groundwater management: What can we learn from the past?** by Prof. Georg Teutsch, Scientific Managing Director of the Helmholtz Centre for Environmental Research UFZ, Leipzig

Professor Georg Teutsch holds a M.Sc. degree from the University of Birmingham (1980) and a PhD from the University of Tübingen (Germany). He has been a Professor of Geohydrology at the University of Stuttgart and has held a Chair in Hydrogeology at the University of Tübingen since 1993. His 35 years professional experience in academia and practice cover many fields from water resources assessment and water planning in a variety of environments, including semi-arid and arid regions, to groundwater quality and contaminant remediation using innovative technologies.

Georg Teutsch has always been interested in the quantitative aspects of hydrogeology and has continuously promoted model-based integrated studies using a combination of hydrogeological, geophysical, geochemical and economical methodology. In 2004, he was appointed to the position of Scientific Managing Director of the German National Environmental Research Centre (UFZ) with the headquarter in Leipzig.

Since 2015 he chairs the Partnership for European Environment Research (PEER), a network of the largest Environmental Research National Labs in Europe with more than 3000 scientists. He is a key advisor for the Water Research Programs at national, European and international level.



UNIVERSITY OF BIRMINGHAM

**Convenor Contacts**

*Michael Rivett*

m.o.rivett@bham.ac.uk

*Adrian Butler*

a.butler@imperial.ac.uk

*Tim Besien*

tim.besien@environment-agency.gov.uk

*James Assem*

james.assem@advisian.com

**Venue**

Bramall Music Building auditorium  
University of Birmingham, UK

**Registration see website**


IAH and Geological Society

Members rate of £220

Non-members rate £300

Student rate £150

Follow us on twitter :

 <https://twitter.com/search?q=gwmoha>  
#gwmoha

 **VAN WALT**  
Confidence - Technology - Choice

 **rshydro**

# Groundwater

## Managing our Hidden Asset



Wednesday 14-Sep-2016

Speaker programme from 2:00 pm to 4.30 pm

**Speaker**      **Affiliation**      **Title**

**PM: Groundwater quality**

John Tellam	University of Birmingham	An overview of the implications of some recent study findings relating to sorbing groundwater solute transport in English Triassic Sandstone
Elisa Clagnan	Teagasc, Environmental Research Centre, Ireland	Nitrogen-loss, source, transformation and attenuation in groundwater within an intensive dairy farm in SE Ireland
Katya Manamsa	BGS / Environment Agency	Temporal variability of Micro-organic contaminants in lowland chalk catchment
Richard Carter	Richard Carter & Associates	Water security for the poor in Africa: the UP-Gro research programme

### Discussion

Tim Besien	Environment Agency	Delivering the groundwater quality objectives of the Water Framework Directive in England
Michael Rhodes	Mott Macdonald	Groundwater protection and monitoring for large infrastructure development in multiple aquifers in London: The Lee Tunnel
James Watson	Environment Agency	Cost-benefit assessment for remediating a large-scale chlorinated solvent
Rob Ward	BGS	The importance of establishing a baseline for groundwater quality in connection with shale gas: Vale of Pickering, UK

**Discussion followed by student poster award, conference closing address**

**4:30 pm —5:00 pm Refreshments**

**For registration:**

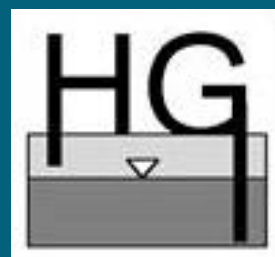
<http://www.geolsoc.org.uk/Groundwater-Managing-our-Hidden-Asset> Or  
[http://shop.bham.ac.uk/browse/extra\\_info.asp?compid=1&modid=2&deptid=28&catid=64&prodid=1261](http://shop.bham.ac.uk/browse/extra_info.asp?compid=1&modid=2&deptid=28&catid=64&prodid=1261)

Accommodation is NOT included in the registration fee information is available from: <http://www.birmingham.ac.uk/facilities/mds-cpd/contact/hotels.aspx>

Campus railway station 'University' = 10 minutes from New Street station and 5 minutes from Five Ways station.

**NO** car parking on campus for delegates (except disabled parking)

Potential exhibitors at the conference please contact Tim Besien.



UNIVERSITY OF BIRMINGHAM

#### Convenor Contacts

*Michael Rivett*

m.o.rivett@bham.ac.uk

*Adrian Butler*

a.butler@imperial.ac.uk

*Tim Besien*

tim.besien@environment-agency.gov.uk

*James Assem*

james.assem@advisian.com

#### Venue

Bramall Music Building auditorium  
University of Birmingham, UK

#### Registration see website


IAH and Geological Society

Members rate of £220

Non-members rate £300

Student rate £150

Follow us on twitter :

 <https://twitter.com/search?q=gwmoha>  
#gwmoha

 **VAN WALT**  
Confidence - Technology - Choice

 **rshydro**