

Groundwater Quality: - Public & private water supplies



Groundwater is a vital source of water for public supply, agriculture and industry in the U.K. It is also the source for one million people in the U.K. served by private water supplies (PWS) where the main municipal water supply system connection is not practical, or where PWS is the preferred option. In the past a major attraction of using groundwater was that it required little or no treatment, but this is increasingly no longer the case and groundwater quality has deteriorated significantly over the last few decades. Groundwater contamination results from a variety of human activities, as well as natural sources. The increase in demand for water, climate change and pressures on land use has put greater pressure on supplies, with potential impact on water quality and sustainability. Improved monitoring has also raised concern over emerging chemical contaminants leading to more stringent regulatory standards being introduced. This conference will bring various stakeholders together to review the risks, monitoring and evolving regulatory needs, along with technology and strategies necessary for mitigation and remediation.

DRAFT AGENDA

09:50 - 10:20 Registration and refreshments (Council Room)

Morning Session 10.20 - 13.00 (Library)

10.20 Welcome and information for the day.

Opening Remarks.

Session 1 Chair, WSF Committee.

10.30 Protecting our groundwater resources.

Tim Besien, Groundwater Technical Specialist, Environment Agency UK.

11:00 Emerging contaminants in groundwater; have we got a health problem?

Marianne Stuart, Senior Hydrochemist, British Geological Survey, Wallingford.

11.30 A case study to explore how effective groundwater protection zones are in managing the security of public water supplies.

Nick Walters, Groundwater and Surfacewater Manager, Anglian Water.

12:00 Private water supplies; regulation and pesticides.

Ben Ellis, Environmental Health Officer at Stratford-Upon-Avon District Council.

12:30 Groundwater quality and regulating private water supplies.

Richard Phillips, Drinking Water Inspectorate.

13:00 - 13:55 Buffet Lunch & Exhibitor display (Council Room)

Afternoon Session 14:00 - 16.00 (Library)

14.00 Designing risk-based monitoring of small (private) water supplies.

Dr Joanna Akoumianaki, Senior Science-Policy Specialist, The James Hutton Institute, Invergowrie, Dundee.

14.30 The use of fluorescence to monitor groundwater microbiological quality.

James Sorensen, British Geological Survey, Wallingford.

15:00 Private Water Supply treatment options: Industry overview - how techniques (and costs) differ from municipal.

Neil Grant, Kennet Water.

15.30 Multi Criteria Analysis of Rural Private Water Supply treatment options – a case study.

Professor David Blackwood, Chair of Sustainable Development, Head of the Division of Natural and Built Environment, School of Science, Engineering and Technology, Abertay University.

16.00 Final comments

Tea/Coffee Available & Exhibitor display (Council Room)

16.30 Close.

Conference Aims

The proposed conference will bring a range stakeholders together concerned with the quality of groundwater. Importantly, it will address the requirements of both large and small scale operators and users of groundwater sources across the U.K., including those reliant on privately owned water supplies. It will review the risks, monitoring requirements and evolving regulatory needs, along with treatment technologies and strategies necessary to mitigate risks and safeguard sources of supply.

Who should attend

- Local authority representatives
- Water company personnel
- Environmental regulators, planners and policymakers
- Public health
- Owners and operators of Private Water Supply systems
- Stakeholders in industry and agriculture reliant upon groundwater supplies
- Manufacturers of food and drink
- Businesses involved in catering, tourism
- Analytical services
- Suppliers of water test kits and treatment equipment.

For further information please visit RSC Conference and Events website:

<http://www.rsc.org/events?MemberNetwork=73&PageTitle=73>

For further information on the Water Science Forum membership and activities please see:

<http://www.rsc.org/Membership/Networking/InterestGroups/WaterScience/index.asp>

Or write to:

Hon. Secretary
Water Science Forum
c/o The Royal Society of Chemistry
Burlington House, Piccadilly
London W1V 0BN

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Registered Charity Number 20789

REGISTRATION FORM
(Please complete a separate form for each delegate)

Registration includes attendance at the speaker presentations during the morning and afternoon sessions, refreshments throughout the meeting and exhibitor display. Free WiFi access is also available to delegates on the day.

Registration fees are as follows:

Delegate Category	Early bird (by 15 February 2019)	Standard (by 8 March 2019)
Members of RSC, IChemE, SCI & LAs	£95	£135
Non-members	£145	£175
Student/retired RSC members	£55	£70
Student non-members	£70	£85

Exhibitors: A limited number of posters and display stands can be accommodated by arrangement (please contact Adrian J Clark adrian.clark@btinternet.com).

****Sponsorship opportunities are also available.**

Online Registration: See <http://www.rsc.org/events/detail/36685/groundwater-quality-public-and-private-water-supplies>

Final booking deadline, unless paying by cheque, is 8th March.
A £10 booking charge will apply if payment is not received with registration.

If you prefer to pay by cheque, or for late payments, please complete the form below (cheques payable to "RSC Water Science Forum"):

Title (Dr, Mr, Mrs etc)First Name(s)

Surname Job Title

Organisation/Affiliation

Address

.....Post Code

TelephoneMobile.....

Email

Do you have any special dietary or other needs? If so, please specify below:

.....

RSC/SCI Membership Number (if applicable)

The completed form should be returned to the Treasurer:
Mr Jonathan Mace, Quality Manager
ALS Life Sciences Division,
Environmental Unit 11,
Silkwood Park, Janes Hill
Wakefield WF5 9TG, email: jonathan.mace@ymail.com.

For all enquiries regarding the event please contact:
Adrian J Clark Telephone: 01326 240194, email: adrian.clark@btinternet.com.