

AGENDA

09:00	REGISTRATION
09:30	WELCOME <i>Dr Phil Ham, Managing Director, Envireau Water</i>
09:45	WATER WELL REHABILITATION <i>Dr Georg Houben, Federal Institute for Geosciences and Natural Resources</i> Our keynote speaker, Dr Georg Houben, is the Deputy Head of the “Groundwater Resources” department at the Federal Institute for Geosciences and Natural Resources in Hannover, specialising in: <ul style="list-style-type: none">• Hydraulics and scaling/corrosion processes in water wells• Hydrogeology of the deeper underground: geochemical aspects of geothermal energy, CCS, radioactive waste repositories and fracking• The impact of agriculture on groundwater quality• Development aid projects in Afghanistan, Yemen, Paraguay, Burundi, Namibia, Vietnam Alongside his role as Deputy Head, Georg teaches Groundwater Dynamics at Leibniz University in Hannover. Previous to this, in parallel to working as a consultant at Bieske & Partner GmbH (Hydrogeology and Well Construction), Georg completed a PhD in Hydrogeochemistry at RWTH Aachen University. Georg is the author of the textbook “Water Well Rehabilitation and Reconstruction” and has also contributed chapters to two textbooks as well as writing 37 peer-reviewed papers in international scientific journals.
10:45	REFRESHMENT BREAK AND TRADE EXHIBITION
11:15	REHABILITATION VS A NEW BOREHOLE? A COST BENEFIT ANALYSIS <i>Phil Merrin, United Utilities</i> Phil will offer a view of predictive versus reactive maintenance/rehabilitation, and the challenges with the former if deterioration is subtle, difficult to spot and time/cost intensive to put right. Ten years ago, as part of a UKWIR project, Phil instigated a piece of work to develop a framework methodology for borehole maintenance which demonstrated that it can be challenging to implement. However, by using a planned maintenance schedule based on visual inspections of boreholes, buy-in from internal stakeholders can be achieved. Phil will talk about this approach and the need to collect data (which is sometimes overlooked!). He will also talk about his wide experience of physical and chemical techniques and the need to monitor and assess on a case by case basis when thinking about a rehabilitation solution. There will be lots of real life examples both in terms of techniques, relining, replacement...and hopefully another rehabilitation scheme recently completed.
12:00	IS YOUR YIELD DECLINING? <i>Envireau Water</i> This presentation will provide a practical observation seen by abstractors of problem boreholes.

<p>12:30</p>	<p>LUNCH</p> <p>As well as networking and connecting with like-minded delegates during lunch, there will also be the chance to browse our highly acclaimed trade exhibition covering drillers, pump & equipment suppliers, laboratory services, geophysics, monitoring equipment and more.</p>	
<p>13:30</p>	<p style="text-align: center;">WORKSHOP 1</p> <p style="text-align: center;">PRACTICAL REHABILITATION THE STATE OF THE ART</p> <p>Industry experts will speak to delegates about:</p> <p>Borehole Inspection: Methods, Why and When <i>European Geophysical Services</i></p> <p>Hydrogen Peroxide and Oxalic Acid based borehole cleaning products <i>Professor Rick Brassington</i></p> <p>Advanced Jetting <i>Mike Bushby, Borehole Engineering Services (DrilCorp)</i></p> <p>Q&A Session The three talks of the afternoon will be brought back into the practical world.</p>	<p style="text-align: center;">WORKSHOP 2</p> <p style="text-align: center;">PRIVATE WATER SUPPLY BOREHOLES WHAT THE EHO NEEDS TO KNOW</p> <p>Geology, Hydrogeology, Boreholes, Wells & Springs An insight into what lies beneath our feet, what the EHO can't see, what might be there, and how the underground system works.</p> <p>Water Treatment A run through domestic and small supply water treatment options, how they work (and don't) and what they look like on site. This session will cover what questions to ask, and what responses to look out for.</p> <p>The 2018 Regulations – Making It Simple A look at practical and pragmatic ways of working within the 2018 Regs in terms of risk assessment and sampling.</p> <p>Q&A Session All three of the talks will be brought together via a panel session.</p>
<p>15:30</p>	<p>CONFERENCE PLENARY <i>James Dodds, Dr Phil Ham and Dr George Houben</i></p> <p>Our conference plenary will draw together the key themes of the day as well as providing an update on the European Standard on Water Supply Borehole Design and Construction.</p>	
<p>16:00</p>	<p>CONFERENCE SOCIAL</p> <p>The opportunity to share discussions of your afternoon workshop with other delegates over a pint (or two)!</p>	
<p>17:00</p>	<p>CONFERENCE CLOSE</p>	

Please note that Envireau Water reserves the right to make amendments to the conference agenda