

Pump Centre Conference 2017 – Provisional Breakout Session List*

TITLE & SYNOPSIS	
BREAKOUT ROOM 1 – Pumps & Pumping	
A	<p>Principles of Chemical Dosing – How to avoid the pitfalls Jon Pugh / Bob Baylis - Etatron Overview of what questions need to be asked in order to use the correct chemical dosing pump and associated equipment such as flowrates, what effects the flow rates, correct pipe sizing and install notes along with chemical compatibility problems and cures, what accessories will be required to make your pump work efficiently.</p>
B	<p>Modern fish friendly pumps have improved land drainage pumping station TOTEX costs Martin van Nieuwenhuyzen - Aquatic Control Engineering Originally designed for fish friendliness modern fish friendly pumps have proved to reduce land drainage pumping stations TOTEX cost's. Designs to improve fish friendliness can in fact result in efficiency gains over asset life. Whilst CAPEX costs are higher, OPEX savings can allow for the best TOTEX solutions.</p>
C	<p>Pump Blockages – Causes & Prevention Simon Crompton – Clearwater Control Utilities each report many thousands of incidents costing collectively hundreds of millions of pounds. Blockages lead to inefficient asset operation, excess energy consumption and the possibility of serious spillage incidents. This presentation looks at the type of blockages that occur and how they can be alleviated.</p>

BREAKOUT ROOM 2 – Water Industry Applications	
D	<p>Range Management John Chappell, MBE. - United Utilities United Utilities have an Operational Engineering service providing 'pervasive' engineering into the water Operations areas. This is providing qualified engineering support direct to the centre of operations and providing an oblique view to equipment performance across common fleets of components known as Range Management.</p>
E	<p>BIM – An Overview Kevin Bezant – Atkins Global This presentation gives a brief overview of BIM (Building Information Modelling) and how it is being applied within the industry.</p>
F	<p>Introduction to WIMES and the WIMES Datasheets Roger Marlow – Pump Centre This presentation introduces the Water Industry Mechanical and Electrical Specifications (WIMES) and how the associated datasheets should be used by the Water Industry supply chain.</p>

BREAKOUT ROOM 3 – Drives, Motors & Control	
G	<p>SMART Drives Jonathan Smith - Rockwell Automation Much is made of Industry 4.0 and what it means for the future but what can be achieved now? Will it be expensive, will it require new platforms and hardware and what can be gained from it? Rockwell Automation will discuss how integrating smart devices – particularly drives – into your control network can release major productivity benefits by using future technology that is available now. This brand new technology has a low start-up cost and utilises existing platforms - even smartphones - in delivering real and tangible benefits to all parts of the organisation including maintenance, engineering, operations and management. The presentation will cover basic installation requirements, user interaction, potential productivity gains, scalability and future developments and will highlight drives as an example of how smart - part of the organisation at the right time.</p>
H	<p>Variable Speed Drive System Efficiency Martin Richardson - ABB The EN50598 standards along with the Ecodesign Directive (amongst others) are driving us to look at efficiencies of products and systems more closely. Electrically, there are several factors that can alter the efficiency of a system, these will be highlighted and explored, along with the relevance of current and future standards that apply to VSD's & VSD systems. Using figures from a catalogue or even comparing figures that are published according to the standards do not tell the full story.....</p>
I	<p>An independent guide to how modern pump controllers can improve the efficiency and reliability of pumping systems Mark Thomas - Flowcheck An independent and impartial view on how modern control systems can improve the efficiency and reliability of a pumping station. The presentation looks at both the positive and negative aspects of using intelligent pump controllers.</p>

BREAKOUT ROOM 4 – Case Histories & Projects

J	<p>The Legacy of George Murgatroyd's Brine Pump Kerry Fletcher - Middlewich Heritage Trust</p> <p>Industrial Heritage and Archaeology are developing collective topics in many communities up and down the country. They are the legacies of our past, representations of the industries that once supported our families and created our communities.</p> <p>In an age of austerity it is sites like Murgatroyd's, all over the country that are paying the price. Slowly but surely communities are taking back control of their own industrial heritage, saving them for future generations to understand the impact that these machines and processes played in everyday lives. It is also important that connections with the modern industrial world are understood to measure just how far we have advanced in technology and explore what is to come. George Murgatroyd had a dream of setting up his own Salt and Chemical business; 128 years later the brine shaft he had dug is nationally important..., why? Because the rock salt he found started an industrial chain reaction of inventions, chemical advancement and technological achievement known throughout the world.</p> <p>The Middlewich Heritage Trust has been formed to preserve and promote the heritage of Middlewich (including buildings, artefacts and archives) as a resource for the benefit of the residents of Cheshire and of the wider public.</p> <p>Hear our story and discover how you could be part of it.</p>
K	<p>Pumps as turbines Stuart Wallis – SPP Pumps</p> <p>A presentation detailing the possible use of pumps as turbines by operating them in reverse to generate electricity and reduce TOTEX</p>
L	<p>Intelligent Maintenance Systems Keith Solts – Environment Agency & Martin Richardson - ABB</p> <p>The Environment Agency are looking to develop a pumping station that operates with minimal maintenance intervention. They are looking to fund a research project looking at innovative technology that can be applied to an existing pumping station. This presentation gives a review of the potential technology that is available.</p>

PUMP CENTRE TRAINING SESSIONS

1	<p>Estimating Pump Operating Costs Dennis Goodlad - Pump Centre</p> <p>How to get a quick understanding the cost of pumping.</p>
2	<p>Relaxation in bolted joints - - "Relax, your bolts do" Steve Moore – Pump Centre</p> <p>A look at bolted assemblies and how, despite good procedures, you may not get what you expect. The use of increasing levels of torque and bolt tightening in sequence may not get you a uniform bolt load.</p>
3	<p>"Totex and the Power Supply" Geof Brown – Pump Centre</p> <p>The paper studies how the capital and running costs can be affected by careful selection of the power supply components. In the UK especially nearly every small and medium installation is based on the 400 V power supply, but using a 690 V or higher supply or a DC supply can show advantages, both in capital, installation and running costs.</p>

* Provisional programme subject to change.