



**POOL WATER
TREATMENT
ADVISORY
GROUP**

**Event programme
and booking form**

National Conference 2019

**Wednesday
13 November**



Holywell Park Conference Centre,
Holywell Way, Loughborough University Science and Enterprise Park, Loughborough, LE11 3GR

- 9.00** | **Registration and Refreshments**
- 9.30** | **PWTAG the state of the nation annual address and PWTAG and Swim England – a partnership for people swimming – Janice Calvert – PWTAG Chair**
There will be an update on PWTAG's work and focus of 2019, including the move to Swim England at Loughborough University. A closer partnership with swimmers and aquatic activity heralds a more intense focus on ensuring healthy and attractive swimming conditions. PWTAG's work has also expanded to take into account water-based activities such as hot tubs and spa pools.
- 9.50** | **Validation and application of Cryptosporidium assays for swimming pool waters and filter backwash – Rachel Chalmers – NHS National Reference Centre**
How well are we doing in the UK in the fight against probably the greatest threat that has faced swimming pool operation for many years? Rachel will inform us of the national picture, including testing and investigation procedures which will highlight how UK pools need to do better. Additional information will be provided on the need for clarification regarding interpretation to inform public health actions.
- 10.20** | **Role of filtration in managing the risk from Cryptosporidium in commercial swimming pools – Martin Wood – Pool Sentry**
This review, one of the most significant and far-reaching studies in the effectiveness of pool filtration, explains the mechanisms by which filters remove particles of different sizes, factors that affect the efficiency of particle removal (such as filtration velocity), current recommended management practices and identifies further work to support the development of a risk-based management approach for the management of waterborne disease outbreaks from swimming pools. The findings go to the heart of swimming pool operation.
- 10.50** | **Refreshment break**
- 11.20** | **THM's in Pools a cause for concern due to disinfection by-product exposure and health risks among swimmers – Cristina Villanueva**
Swimming is generally considered to be a health-enhancing activity. However, after water leaves a public water system and enters a pool, its quality is managed at the most local level in the UK by pool managers or lifeguards. Studies have provided the clearest evidence to date that disinfected water might be genotoxic and carcinogenic to humans, and that genotype may be a critical factor in susceptibility to bladder cancer in individuals exposed to DBPs. How do we, who operate and control pools, balance this threat against the good that pools do in the health of the nation?
- 11.50** | **Lidos – the future – Emma Pusill – author of the Lido Guide**
The golden age of lidos in the UK was in the 1930s. Many have since closed, a significant loss to our health and welfare infrastructure. Today, lidos and outdoor pools are enjoying a renaissance with an increasing number being rescued. Emma and Janet Wilkinson have written a guide to many of our lidos hoping to inspire people to visit, and enable them to plan those visits. We will look at the challenges some lidos face in terms of maintaining basic water quality, but how many are embracing new technology in filtration, disinfection and heating systems to create sustainable solutions for tomorrow?
- 12.15** | **Morning Q&A session**

PWTAG reserves the right to alter speakers and/or titles of papers if circumstances dictate.

- 12.45** | **Lunch**
- 13.45** | **Pool Mark – Professional Assessment – stepping up to the Mark – Robin Mitchell – PALM Academy and Pioneering Pool Solutions**
The take-up of pools prepared to go through the Pool Mark assessment process has been abysmal. However, showing your pool is up to the mark is probably one of the most customer-orientated decisions an operator can take, exercising confidence in a pool and giving customers assurance not provided in any other way. PWTAG has now come up with a new way to access Pool Mark that is both cost effective and less administratively demanding and Robin Mitchell will explain this in more detail.
- 14.10** | **Biocides and swimming pools – the impact of the regulation – Richy Mariner – Science Manager European Chemical Industry Council**
All biocidal products to be placed on the market require an authorisation, and authorisation cannot be obtained until the active substances contained in that biocidal product have been approved. In the past, swimming pools have been subjected to many weird and wonderful biocides, some of which worked whilst others were positively dangerous. What impact are these regulations to have on swimming pool operation? It's the suppliers that must comply but it's up to the purchaser – the pool operator – to understand the profound changes that are now taking place in the chemical marketplace.
- 14.35** | **Chlorine oxidation the secret to healthy, clear, sparkling water – Janice Calvert – PWTAG Chair**
Free chlorine does more than disinfect, it also oxidises. The experienced operator knows that the surest way to achieve crystal clear water with a blueish hue is through free residual chlorination, because of the ability of free chlorine to react quickly with organic matter, bleaching it. This ultimate clarity or polished appearance is from the free available chlorine and not from filtration. A pool that is filtered but not chlorinated will soon take on a dull cast, which will gradually increase until the water becomes opaque. Then the water will turn a pea green, making it an unfit environment for bathers. The filtration system cannot be substituted for chlorine oxidation. We will discuss and elaborate upon this theme.
- 15.00** | **Drowning detection systems in pools – time for a clear perspective – Chris Hebblewhite – GLL and WG8 Swimming Pool Standards**
There is a standard ISO 20380:2017 – Computer vision systems for the detection of drowning accidents in swimming pools. Here in the UK, the standards working group, WG8, believes ISO 20380 is restrictive and inappropriate in the majority of swimming pool situations. We are instead proposing either a wider scope for the existing standard to make it more adaptable, or to develop our own BSI standard for all UK drowning detection devices and not just those based upon computer vision. Drowning detection devices are set to have a major impact on safety in swimming pools. The proposals will go to the ISO European development group shortly and this paper will identify the reasons for change and outline the UK standard.
- 15.30** | **Afternoon Q&A session**
- 16.00** | **Close – refreshments**

The views and opinions expressed in the event are solely those of the speakers and do not necessarily represent those of PWTAG.



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Membership No. _____

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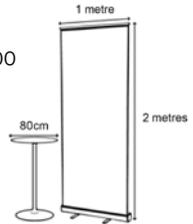
Delegate rates:

<input type="checkbox"/>	Member	£120 +VAT	Total = £144
<input type="checkbox"/>	Non-member	£135 +VAT	Total = £162

Event trade stands:

<input type="checkbox"/>	Trade stand (includes two delegates)	£1000 + £200 VAT	Total = £1200
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Trade stand booking includes space for 1 x roller banner with a maximum size of 2 metres high x 1 metre wide and 1 x poseur table with a maximum diameter size of 80cm. SPACE ALLOCATION WILL BE 2 M2. STRICTLY 5 trade stand spaces available. Price includes one leaflet insert for the delegate packs, maximum size A4 single sheet. Additional A4 inserts can be accommodated - please contact PWTAG for pricing.



Book using this form - a receipted VAT invoice will be issued - please indicate preferred payment method:

- BANK TRANSFER
Please contact us if you would like to make payment through this method.
- CHEQUE in sterling payable to **Pool Water Treatment Advisory Group Limited** and drawn on a UK bank. Please enclose cheque with this form.

Sign to complete your booking (this confirms that you agree to trade stand specifications)

Name (PRINT): _____ Signature: _____ Date: _____

All payments must be settled before the event. Cancellations up to 14 days before the event will be refunded. For cancellations received within 13 days of the event, 50% of the total fee paid will be retained.