

# Water treatment design for COVID-19 and beyond

Tom Devin

*Director, Pool Water Treatment Advisory Group; Managing Director, Devin Consulting*



Managing Director of Devin Consulting, pool and spa engineering specialists for water treatment systems, movable floors and booms, decorative and interactive water features and heat experiences. Tom founded the company in 2000. Since inception, Devin Consulting has completed over 500 swimming pool and spa projects around the world from Ireland to India working alongside some of the world's leading architects, engineers and project management teams.

The practice portfolio includes all types of pools: Centre Parcs Ireland, London Aquatic Centre for 2012 Olympics, Bulgari Knightsbridge Hotel, Thermae Bath Spa, Hamdan Sports Complex Dubai, Chelsea Barracks, The Defence National Rehabilitation Centre at Stanford Hall.

Tom is a director of the Pool Water Treatment Advisory Group (PWTAG) and co-author of 'Swimming Pool Water' as published by PWTAG. Recent presentations include: 'Sustainability in Swimming Pools' - Interbad 2014 in Stuttgart; 'Commercial / Business Spa Pools - SPATEX 2016; 'Swimming Pool Design' - Destination Hotel Resort & Spa 2018 ;'Emerging trends in water treatment' looking at ceramic micro filtration, RMF, energy consumption and backwash water recovery' - World Waterpark Association Symposium and Convention 2016, New Orleans.

## **Presentation Abstract**

From the start of the COVID-19 pandemic, the Pool Water Treatment Advisory Group have been instrumental in providing guidance with the publication of six technical notes on Coronavirus – including shutting down of pool water treatment systems and recommendations on the changes to pool water chemistry operating conditions. While the advice relates largely to operation, it does depend on the fundamental water treatment system design being adequate to begin with. Tom will review the PWTAG advice and the key elements of the system design that must be in place, and what the options are if there are concerns about how to address. In addition, there are as always new technologies coming into the pool sector, and Tom will review recent research on regenerative media filtration and key findings from a recent study on ceramic/micron filters