

Stuart Khan

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Stuart Khan is a Professor in the School of Civil & Environmental Engineering, UNSW Australia. He is the leader of the Trace Chemical Contaminants research stream at the UNSW Water Research Centre. Khan is also a Hans Fischer Fellow at the Technical University of Munich, Germany. He has received funding for over 30 major competitive research projects from Australian, US and European funding agencies. He has published over 100 peer reviewed journal articles on issues relating to trace chemical contaminants in drinking water, wastewater and recycled water. Stuart Khan is a member of the World Health Organization (WHO) Water Quality and Health Technical Advisory Group (WQTAG). He is also a member of the Water Quality Advisory Committee (WQAC) to the Australian National Health and Medical Research Council (NHMRC) and of the National Water Grid Authority Advisory Body.

Pharmaceutical contaminants in the aquatic environment – How we got here and key current issues.

Pharmaceutical residuals have been detected in aquatic systems since the 1970s, but have grown rapidly in interest since the late 1990s. This presentation will provide an overview of the issues as they have grown with respect to pharmaceuticals including analgesics, antibiotics, steroidal hormones, serotonin uptake inhibitors and cytotoxic drugs. It will examine what we have learned regarding presence, detection, ecotoxicity, water treatment and environmental transformations and public health risks. In particular, this presentation will describe new insights to chiral transformations of some pharmaceuticals during wastewater treatment and the implications those transformation may have for the aquatic environment.

Regards,

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