

**UniSA Visiting Distinguished Researcher scheme presents a Public Lecture by**

**Prof. Dr.-Ing. Jörg Krampe, Technical University of Vienna**

**Title:** *Energy optimisation of wastewater treatment plants – Advantages of two-stage process concepts*

**When:** Wednesday 19<sup>th</sup> October 2016, 9:45 am, Learning Centre, Level 1, SA Water House

**Abstract:** Energy optimisation of wastewater treatment is highly topical in wastewater engineering and research. Much of the current research focuses on two-stage process concepts, as these have advantages in relation to carbon management. In Austria, two-stage activated sludge plants have a long history and wastewater treatment plants like the well-known energy-positive Strass plant follow the two-stage plant concept. This lecture will demonstrate the benefits of two-stage concepts for energy efficient wastewater treatment. Additionally this concept will be linked to the current EU Horizon 2020 'PowerStep' project ([www.powerstep.eu](http://www.powerstep.eu)) on energy-positive wastewater treatment plants.

**Presenter Bio:** Joerg is a Dipl.-Ing. in civil engineering from the University of Hannover (Germany). He completed his Ph.D. in Civil and Environmental Engineering at the University of Stuttgart (Germany), where he then worked as a lecturer and researcher at the Institute for Sanitary Engineering, Water Quality and Solid Waste Management reaching the position of Head of Department of Wastewater Technology.

During 2008–2013, he was the Principal Wastewater Treatment Engineer at SA Water. In his role he focused on the process design and process optimisation of SA Water's wastewater treatment plants on a strategic level. In August 2013 Joerg returned to Europe to take over his current position as Professor for Water Quality at the Technical University of Vienna (TU Wien), Austria. Since October 2015 he is head of the Institute for Water Quality, Resources and Waste Management. He remains affiliated as Adjunct Assoc. Professor at the University of Adelaide.

Joerg's 20 years of work experience centre on biological wastewater treatment, aeration technology, membrane technology, process

optimisation and energy efficiency. He has a wide range of practical experience with different types of wastewater treatment plants, focused mainly on activated sludge and trickling filter technologies. He has experience in operator training in Germany and Austria and has presented special short courses for Turkish, Algerian and Chinese treatment plant operators.



Please note that attendance is limited to the first 100 registrants due to venue size, so be sure to register your attendance with Dr Michael Short [michael.short@unisa.edu.au](mailto:michael.short@unisa.edu.au) by October 12