

## **A/Prof Richard Stuetz**

BSc (1987), MAppSc (1988), PhD (1994)

Deputy Director, Centre for Water and Waste Technology

Associate Professor, School of Civil and Environmental Engineering, UNW (2006 – present)

### **Employment History**

Senior Lecturer	University of New South Wales	Oct 2003 – 2005
Senior Lecturer	Cranfield University, UK	2002 – Sep 2003
Lecturer	Cranfield University, UK	1999 - 2002
Senior Research Fellow	University of Hertfordshire, UK	1998
Postdoctoral Fellow	University of Hertfordshire, UK	1995 - 1997

### **Expertises**

Dr Stuetz has 14 years experience in water and wastewater treatment and environmental biotechnology with specific research interests in biological water and wastewater treatment systems, bioprocess monitoring and control, bioprocess dynamics and robustness, fate of micropollutants in biological systems and the measurement and treatment of environmental emissions and odours. He teaches undergraduate and postgraduate courses on water and wastewater treatment and water and wastewater analysis in the Civil and Environmental Engineering programmes. Dr Stuetz is member of the International Water Associations (IWA) and Australian Water Association and chairs the IWA's Young Water Professional programme and the Young Researchers Conferences. He is on the editorial board of the IWA Journal Water Science and Technology and Water Science and Technology – Water Supply.

### **Selected Publications**

1. Butcher J., Jeffrey P and Stuetz R.M. (2005) User influences on knowledge structuring on the Internet: literature survey and case study of a global network of water professionals. *Journal of Hydroinformatics* 7 (4), 251-266
2. Thompson A., Griffin P., Stuetz R.M. and Cartmell E. (2005) The fate and removal of triclosan during sewage treatment. *Water Environment Research* 77(1), 63-67
3. Stuetz R.M. (2004) Non-specific monitoring techniques to resolve intermittent pollutants problems associated with wastewater treatment and potable supply. *Water Sciences and Technology* 49 (9), 137-143
4. Bourgeois W., Hogben P., Pike A. and Stuetz R.M. (2003) Development of a sensor array based measurement system for continuous monitoring of water and wastewater. *Sensors and Actuators B* 88 (3), 312-319
5. Burgess J.E., Colliver B.B., Stuetz R.M and Stephenson T. (2002) Dinitrogen oxide production by a mixed culture of nitrifying bacteria during shock loading and aeration. *Journal of Industrial Microbiology and Biotechnology*, 29 (6), 309-313
6. Bourgeois W. and Stuetz R.M. (2002) Use of a chemical sensor array for detecting industrial pollutants in wastewater. *Water Research* 36: 4505-4512
7. Burgess J.E, Stuetz R.M. Morton S. and Stephenson T. (2002) Nitrification detection for nitrification toxicity early warning systems. *Water Science and Technology* 45 (4-5): 247-254
8. Gostelow P., Parsons S.A. and Stuetz R.M. (2001) Odour measurement in sewage treatment - a review. *Water Research* 35 (3): 579-597.
9. Stuetz R.M., Fenner R.A. and Engin G. (1999) Characterisation of wastewater using an electronic nose. *Water Research* 33 (2): 442-452
10. Stuetz R.M., Greene A.C. and Madgwick J.C. (1996) Microalgal facilitated bacterial oxidation of manganese. *Journal of Industrial Microbiology* 16: 267-273

### **Publications over last 5 years**

Peer-reviewed research publications: 37

Conference publications: 27

Books and book chapters: 7