



## Richard Stuetz – Co-Convenor, ACCARNSI Node 4

BSc, MAppSc, PhD

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Richard has 16 years experience in water and wastewater treatment and environmental biotechnology with specific research interests in water and wastewater systems, bioprocess monitoring and control, bioprocess dynamics and characterisation, fate of micropollutants in treatment systems and measurement and abatement of odorous compounds. He is a member of the Editorial Board for the *IWA Journal Water Science and Technology* and *Water Science and Technology – Water Supply*. Richard has been the Co-Director of the UNSW Water Research Centre since 2008.

### Qualifications

BSc, UNSW

MAppSc, UNSW

PhD, UNSW

### Professional History

1999-2001 : Lecturer, School of Water Sciences, Cranfield University, UK

2002-2003 : Senior Lecturer, School of Water Sciences, Cranfield University, UK

2004-2006 : Senior Lecturer, School of Civil and Environmental Engineering, UNSW

### Affiliations

Editorial Board, *IWA Journal Water Science and Technology*

Editorial Board, *Water Science and Technology – Water Supply*

2007-2008 : Associate Professor, School of Civil and Environmental Engineering, UNSW

2008- : Co-Director, UNSW Water Research Centre

2009- : Professor, School of Civil and Environmental Engineering, UNSW

### Specialist Fields

- Water and Wastewater Systems
- Bioprocess Monitoring and Control
- Bioprocess Dynamics and Characterisation
- Fate of Micropollutants in Treatment Systems
- Measurement and Abatement of Odorous Compounds

### Selected Publications

- Sohn J-H, Pioggia G., Craig I.P., Stuetz R.M. and Atzeni M. G. (2009) Identifying major contributing sources to odour annoyance using a non-specific gas sensor array. *Biosystem Engineering* **102**, 305-312
- Khan S.J., Roser D.J., Davies C.M., Peters G.M., Stuetz R.M, Tucker R. and Ashbolt N.J. (2008) Chemical contaminants in feedlot wastes: concentrations, effects and attenuation. *International Environment* **34**, 839-859
- Sivret E.C., Pierson W.L. and Stuetz R.M. (2008) Nitrous oxide monitoring for nitrifying activated sludge aeration control: A simulation study. *Biotechnology and Bioengineering* **101** (1), 109-118
- Metzger U, Le-Clech P, Stuetz R.M., Frimmel F. H. and Chen V (2007) Characterisation of polymeric fouling in membrane bioreactors and the effect of different filtration modes. *Journal of Membrane Science* **30**(1), 180-189
- Barbosa V.L., Atkins S.D., Pereira Barbosa V. and Stuetz R.M. (2006) Characterisation of *Thiobacillus thioparus* isolated from an activated sludge bioreactor used for hydrogen sulphide treatment. *Journal of Applied Microbiology* **101**, 1269-1281
- Seelsaen N., McLaughlan R., Moore S., Ball J. and Stuetz R.M. (2006) Pollutant removal efficiency of alternative media in stormwater treatment. *Water Science & Technology* **54** (6-7), 299-305
- 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
- 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
- Stuetz R.M. (2004) Non-specific monitoring techniques to resolve intermittent pollutants problems associated with wastewater treatment and potable supply. *Water Science & Technology* **49** (9), 137-143
- Bourgeois W., Gardey G., Servieres M. and Stuetz R.M. (2003) A chemical sensor array-based system for protecting wastewater treatment plants. *Sensors and Actuators B* **91**, 109-116
- 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
- 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
- Bourgeois W. and Stuetz R.M. (2002) Use of a chemical sensor array for detecting industrial pollutants in wastewater. *Water Research* **36**: 4505-4512
- Burgess J., Stuetz R.M. and Parsons S.A. (2001) Developments in odour control and waste gas treatment biotechnology. *Biotechnology Advances* **19** (1): 35-63
- Stuetz R.M., Fenner R.A. and Engin G. (1999) Assessment of odours from sewage treatment works by an electronic nose, H<sub>2</sub>S analysis and olfactometry. *Water Research* **33** (2): 453-461
- Stuetz R.M., Fenner R.A. and Engin G. (1999) Characterisation of wastewater using an electronic nose. *Water Research* **33** (2): 442-452