



## Recent highlights

### Platform grant

The Centre for Water Science continues to be recognised by the Engineering and Physical Sciences Research Council (EPSRC) as 'internationally leading' through the renewal of its prestigious 'Platform' grant, allowing work to continue until 2009. Entitled 'Water Process Science and Engineering: Nanoscale to Megascale', the grant will support new post-doctoral researchers, fund visits to overseas collaborators and support Senior Research Fellows to explore 'blue skies' ideas. At nanoscale, the Centre's research will continue to use novel molecular and surface science analytical techniques. At megascale, technology policy and market research techniques will be linked to select processes most likely to be acceptable to the consumer.

### Dew Point

Focused on providing appropriate knowledge to support achievement of the Millennium Development Goals and individual country Poverty Reduction Strategies, the Department for International Development's Dew Point programme provides tailored information services for both DFID staff and their development partners. The Centre for Water Science was part of the consortium which secured the contract to operate this service in 2007 with specific responsibility for providing technical support in water resources management and water & sanitation.

Service provision through Dew Point includes providing annotated knowledge reviews, responding to direct enquiries and requests from in-country specialists, and maintaining databases of training opportunities, organisations and research outputs.

### Yorkshire Water Partnership

Cranfield is one of four universities to enter into a unique five-year partnership with Yorkshire Water to support its research and development programme. Worth over £2m, the partnership breaks new ground in terms of industry-academia research, taking a collaborative approach to knowledge generation to provide more coherent and timely solutions. The Centre for Water Science's contributions are focused on the areas of potable and wastewater treatment processes although it is also supporting initiatives in energy efficient treatment and sustainable process management.



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# Water Science at Cranfield

[www.cranfield.ac.uk/sas/water](http://www.cranfield.ac.uk/sas/water)

The Centre for Water Science is an internationally-recognised centre of excellence that undertakes consultancy, research and training, in the science, engineering and management of water in municipal, industrial and natural environments. The Centre's activities encompass water and wastewater treatment, engineering, irrigation, governance, water supply and sanitation in developing countries, human dimensions and policy evaluation. Staff work closely with colleagues from other schools and departments who provide expertise in risk assessment, hydrology, natural resource economics, waste management and energy production.

### Research

The Centre is a catalyst for research within the water sector, working with leading companies, government agencies and non-government organisations. With 10 post-doctoral staff and over 40 postgraduate researchers, it is the UK's largest water-focused postgraduate group. The Centre's funding sources and collaborations span the international water sector.

### Teaching

Full and part-time taught Masters programmes in Water and Wastewater Engineering / Technology, Water Processes, and Water Management (with options in Irrigation, Agriculture, Environmental Water Management, Community Water and Sanitation, and Water and Society) are offered by the Centre. These postgraduate courses, together with the Centre's extensive portfolio of short courses, are accredited by CIWEM.

### Facilities

Dedicated facilities include a pilot-plant hall at the University's own sewage treatment works, state-of-the-art water laboratories with extensive advanced analytical services, a greywater treatment pilot area, a managed borehole drilling site and soil and irrigation testing facilities.

### Staff members

**Simon Parsons** is Professor of Water Sciences and Head of the Centre for Water Science. His expertise is in potable water treatment and supply, advanced oxidation processes, mineral scale formation and control, and pesticide degradation.

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**Richard Carter** is Professor of International Water Development. His expertise is in community water supply and sanitation, farmer-managed irrigation and food security, groundwater resource assessment and groundwater source development.

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**Simon Judd** is Professor of Membrane Technology. His expertise is in membrane separation processes, membrane bioreactors, and swimming pool water treatment.

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**Brian McIntosh** is Lecturer in Modelling and Decision Support. His expertise is in the design and implementation of models and management decision-making processes.

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**Keith Weatherhead** is a Senior Lecturer in Water Resources and Irrigation. His expertise is in water resource management, future water demand modelling, irrigation methods and management, and climate change impacts and adaptation.

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**Jerry Knox** is a Principal Research Fellow in Irrigation and Water Resources. His expertise is in agricultural and sports-turf irrigation, GIS and demand forecasting, water conservation and efficiency, and climate change impacts / adaptation.

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**Peter Jarvis** is an Academic Fellow funded through the Yorkshire Water Research Partnership. His expertise is in applied research in drinking water treatment with a focus on solid-liquid separation processes and particle characterisation.

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**Bruce Jefferson** is a Senior Lecturer in Water Treatment Processes. His expertise is in mechanistic understanding of processes as applied to water recycling technologies, membrane bioreactors, scale adhesion, coagulation and floc formation.

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**James Webster** is a Lecturer in Community Water Supply. His expertise is in sustainability of rural water, sanitation and hygiene promotion projects in low income countries, and cultural factors that influence development projects.

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**Paul Jeffrey** is a Principal Research Fellow in Water Management. His expertise is in the development of sustainable water use arrangements, and relationships between human, natural and technological elements of water management.

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**Jen Smith** is a Research Councils UK Academic Fellow in Water Safety and International Development. Her expertise is in water and wastewater technology in the context of water safety plans for less developed countries.

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**Tom Stephenson** is Professor of Water Sciences, Head of the School of Applied Sciences, Technical Director of Water Innovate, and Managing Director of CIM Ltd. His expertise is in biological wastewater treatment processes, nutrient removal and water reuse.

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**Simon Pollard** is Professor of Waste and Environmental Risk Management and Head of the Sustainable Systems Department. His expertise is in waste treatment, contaminated land assessment, the environmental fate of contaminants, environmental risk management and risk governance in the utility sectors.

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