

## PROFESSOR IAN CAMERON



## AUSTRALIAN UNIVERSITY TEACHER OF THE YEAR 2003 THE UNIVERSITY OF QUEENSLAND

### DISCIPLINE

Chemical Engineering

### RESEARCH AREAS

Process systems engineering  
Granulation  
Risk management  
Intelligent systems  
Engineering education

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### CURRENT ROLE

Professor Cameron is in the School of Chemical Engineering at the University of Queensland (UQ) and a director at Daesim Technologies Pty. Ltd. He is involved in course and curriculum design innovation, and consults widely to the national and international engineering sector. A Fellow of the Australian Academy of Technological Sciences and Engineering (ATSE), he has been involved in R&D on immersive virtual learning environments for student and industry use. His current work focusses on methodologies to detect and analyse failures in process systems.

### WHAT THE AWARD HAS MEANT

Local and international L&T networks |  
Interdisciplinarity | Benefits research  
and development | Ideas

### MAJOR ACHIEVEMENTS

- 2009**– ALTC Discipline Scholar in Engineering
- 2010** & ICT;
- 2005** AAUT institutional award for educational enhancement via project centred curriculum and course innovation (team award);
- 2006**– ALTC Senior Fellow and Discipline Scholar
- 2008** on the inter-relation of theory and practice in engineering education;
- 2003** Australian Award for University Teaching in Physical Sciences and AAUT Prime Minister's Award for University Teacher of the Year;
- 1997** J.A. Brodie Medal of the Institution of Engineers Australia.

### NETWORKS

ALTF | ATSE Education Committee

### BACKGROUND

Ian Cameron graduated with a BE (Chemical Engineering) from the University of NSW in 1972, a Master's Degree at the University of Washington in 1977 and completed his PhD and DIC from Imperial College London in 1981 in the area of Process Systems Engineering. He worked for 10 years for the CSR Group in diverse industry sectors, for 3 years as a United Nations (UNIDO) process engineering consultant in Argentina, and for a further 6 years in Turkey. He joined UQ in 1985 and has been actively involved in research, consulting, teaching and learning at the School of Chemical Engineering. He has won a number of awards, grants and a fellowship and was made an ALTC Discipline Scholar. He was a member of the team from UQ Chemical Engineering that won a national AAUT institutional award in 2005 for educational enhancement. He has held visiting appointments at Imperial College London, University College London, the Technical University of Denmark, the Hungarian Academy of Sciences and the University of Edinburgh.

### IMPACT ON LEARNING & TEACHING

Professor Cameron chaired the L&T committee (School of Engineering) and was invited onto academic promotion panels, to review colleagues' awards applications and to share his approach to writing applications. As a result of a higher profile, he was able to secure funding from OLT grants, industry and UQ, which has had a huge impact on the direction and the sustainability of the research. His current research project, The JourneyMaker, is an outcome of this research and is now being looked at as a holistic curriculum design environment. His latest virtual reality work involves the BP de-commissioning of a refinery. He advised Edith Cowan University on the establishment of a Chemical Engineering program.

### IMPACT ON CAREER

Following the award, Professor Cameron became Head of Chemical Engineering and was director of the faculty's Teaching & Learning Committee. This provided him with opportunities for interaction across the whole of Engineering, as well as a greater engagement with leaders outside engineering including Arts, Science, Vet Science, Architecture and others. In 2006 Professor Cameron became an ALTC Senior Fellow. He became a discipline scholar and worked on the development of Threshold Learning Outcomes. The Award and subsequent Fellowship gave him a profile at a higher level within the university, and at national and international institutions. Whilst taking on these various roles, he maintained his ARC discipline research as part of a UQ team.