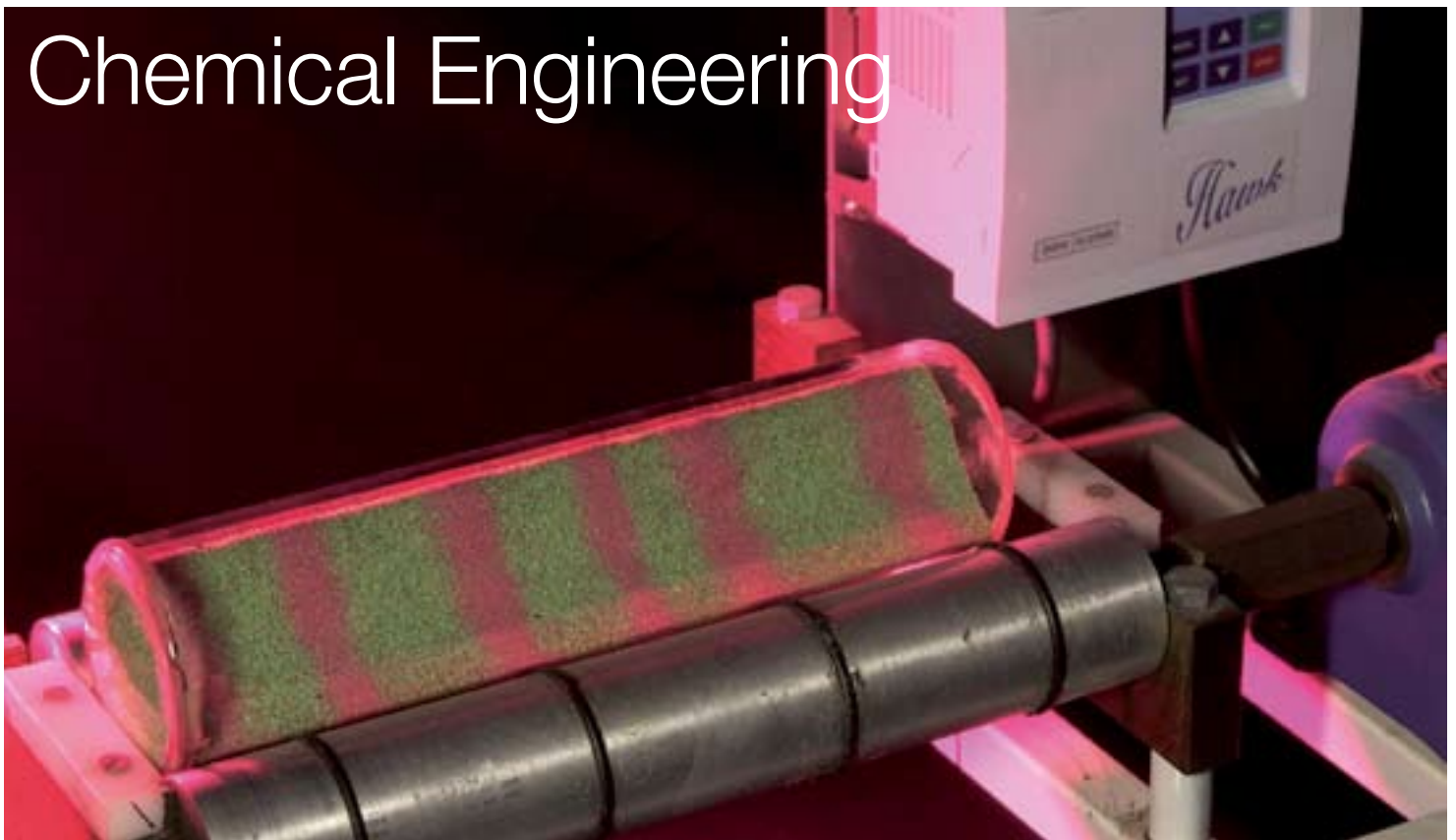


Chemical Engineering



The Department of Chemical Engineering at Monash is one of the largest of its kind in Australia.

Its 15 academic staff, all with doctoral degrees from some of the world's finest institutions, and visiting academics have helped create a learning environment in which teaching and research flourish.

More than 50 research students are learning the art of research and applying their skills to a diverse range of projects: from the esoteric to the pragmatic and applied; from the experimentally challenging to the theoretically demanding; and from those based on advances in physics to those grounded firmly in modern chemistry.

Helping further the department's work is a range of associated research centres that provide plentiful support and opportunities for collaboration:

- Australian Pulp and Paper Institute
- National Print Laboratory
- National Centre for Advanced Cell Engineering
- Nanotechnology Victoria
- Cooperative Research Centre for Clean Power from Lignite
- Cooperative Research Centre for Greenhouse Gas Technologies
- Cooperative Centre for Functional Communication Surfaces

These centres provide not only a focus for the department's targeted research in emerging areas, but also the infrastructure required for engineering research.

Collaboration with industrial partners ensures that the research projects address real problems and adds a touch of urgency to the department's activities.



Contact

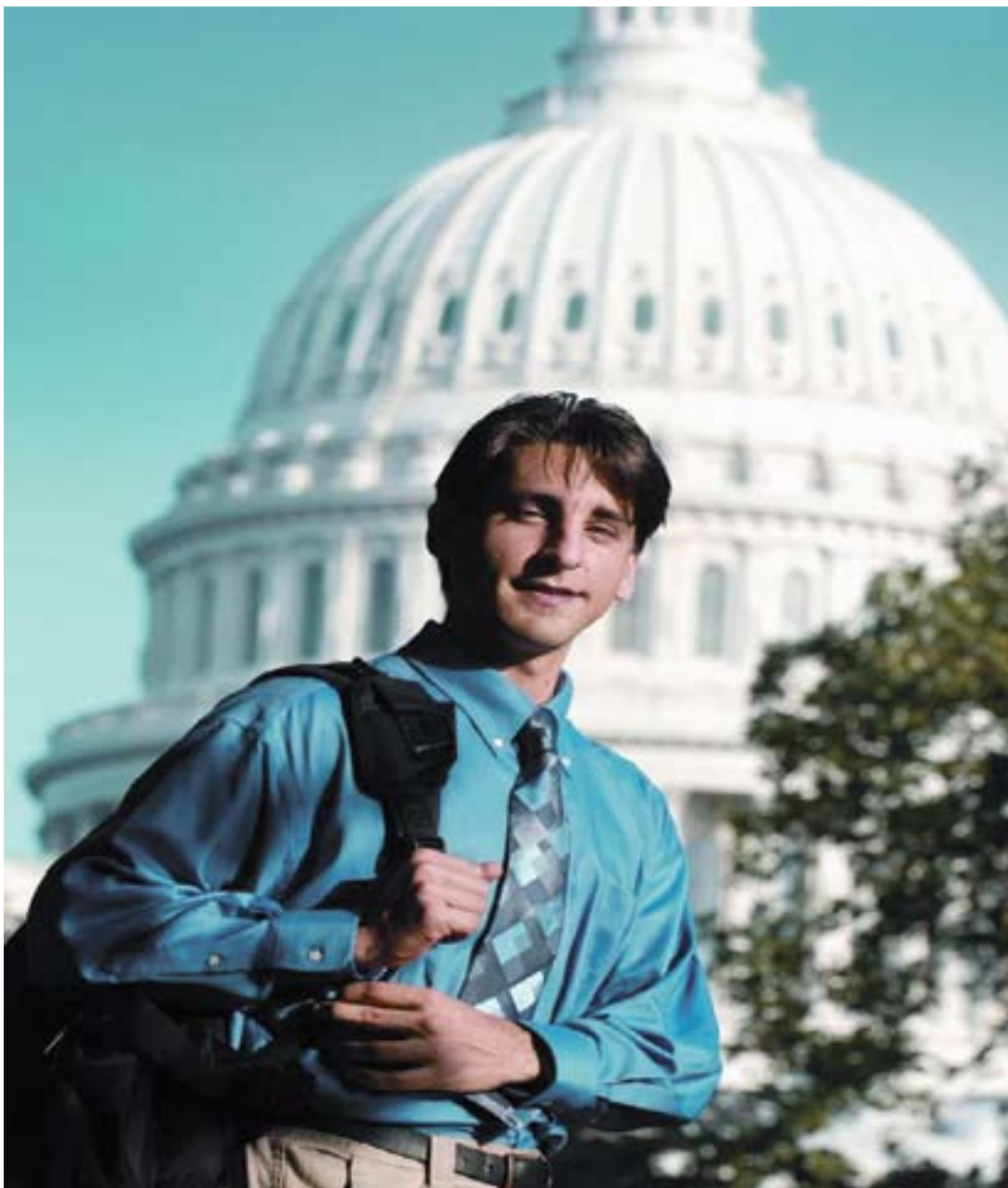
Head of Department

Professor Martin Rhodes

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Profile

Richard Todd

PhD Chemical
Engineering, 2003

Richard Todd's thesis project focused on the underlying physics of a Rapid Pressure Swing Adsorption process for separating oxygen from nitrogen using air as the feed gas to the system. His research has taken him all over the world. Currently he is living in the USA developing a cleaner, more efficient fuel for the future. In charge of developing new technologies for the production of and purification of hydrogen, Richard's work will be vital in the push for hydrogen as the fuel for the future.

Richard chose Monash because, "The postgraduate program in chemical engineering has very close ties to current industrial research, with facilities for laboratory and computer based research that are as good as any other research institute in the world. I learned a lot that I apply in my everyday job - problem solving, data analysis and learning skills were all enhanced by my postgraduate experience."

As well as receiving a scholarship, Richard worked part-time in the Department of Chemical Engineering as a tutor which helped supplement his income and looked great on his resume. His advice to prospective research students is, "Choose an area that interests you, maybe an area that you would like to specialize in after completing. The PhD is your sole responsibility, and you are your own boss, so self motivation is important. Take it from me, a PhD is a very rewarding process and is well worth the 3 plus years of hard work."



MONASH University
Engineering

www.eng.monash.edu.au/chemeng