



ac3



Australian Government
**Department of Transport and
Regional Services**



FOR IMMEDIATE RELEASE:

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Virtual Manufacturing drives Export Growth for Illawarra Company

Western Sydney, Jan 28, 2004. - The University of Western Sydney has announced the completion of an important advanced computing project for Refrigeration Engineering of the Illawarra. Using virtual manufacturing methods, Refrigeration Engineering have been able to simulate the flow of gas and oil through their compressor oil separators and apply key design changes. These changes are expected to create a dramatic improvement in the separation capabilities and expanded the export market opportunities for the product.

“By embracing computer modelling of our products, we can significantly improve their performance”, says Ben Adamson of Refrigeration Engineering”.

“We export the majority of our products and the improved performance of our separators will open new opportunities for our world leading compressor systems.”

The Centre for Advanced Systems Engineering (CASE) at the University of Western Sydney (UWS) and the University of Wollongong (UoW), in association with Australian Centre for Advanced Computing and communications (ac3) are undertaking a technology diffusion program which will encourage a range of industries in both the Western Sydney and the Illawarra areas to take advantage of High Performance Computing (HPC).

This project is an Australian Government initiative in regional Australia and is funded through the Department of Transport and Regional Services with support from the Area Consultative Committees of Western Sydney and the Illawarra. Qualifying projects are funded on a dollar for dollar basis.

This initiative seeks to:

- Raise the awareness of industry to the potential of advanced computational technologies;

- Ultimately enhance the competitiveness of domestic/regional industry and thereby grow employment;
- Promote career opportunities for prospective graduates of advanced computing technologies;
- Promote the uptake of the technologies by industry;
- Foster changed work practice incorporating advanced technologies;
- Foster the up-skilling of the regional workforce

About UWS

The University of Western Sydney is one of Australia's fastest growing universities, with a student population of more than 37,000. As part of an international network of 'new generation' universities, UWS has built a reputation for academic excellence; offering a diverse range of courses at Bachelor, Master and PhD level. UWS research is focused on well-articulated, high-impact research solutions. The University has three major mechanisms for expressing its research strengths; multidisciplinary university wide research programs, a small number of research centres and a development program for emerging research strengths. For more information visit www.uws.edu.au

About ac3

ac3 is a High Performance Computing company operating three state-of-the art supercomputers in its secure data centre at the Australian Technology Park at Redfern. The major investor in ac3 is the NSW Government, with 57% equity, the remaining equity being held by 8 NSW based Universities. ac3's commercial interests focus on financial services, industry and government. ac3 provides banks with a superior platform for risk modeling. Government business is primarily based on managed co-location services. ac3 provides researchers in its shareholder universities and with access to supercomputing power, and also serves as the New South Wales partner in APAC, the Australian Partnership for Advanced Computing. More details may be obtained at www.ac3.com.au