



2006 B-HERT Awards for Outstanding Achievement in Collaboration in Research & Development and Education & Training



Applications were sought earlier this year and were judged by an experienced panel of judges comprising:



- ❖ Professor Leon Mann, Director, Centre for R&D Leadership, The University of Melbourne (*Chairman*)
- ❖ Dr Peter Binks, CEO Nanotechnology Victoria Ltd
- ❖ Ms Sharon Coates, CEO, Innovation Business Skills Australia
- ❖ Dr Annabelle Duncan, Associate Director and Chief Operating Officer, Bio21 Institute
- ❖ Mr Peter Laver AM, Vice-President, Australian Academy of Technological Sciences and Engineering
- ❖ Associate Professor Jane Munro, Head of College & CEO, International House, The University of Melbourne
- ❖ Dr Peter Scaife, Director, Centre for Sustainable Technology, The University of Newcastle



The criteria for evaluation included:



1. Innovativeness
2. Strength of the relationship between collaborating partners
3. Outreach inclusion (e.g. overseas - to other groups, companies)
4. Wider outcomes achieved
5. Cultural impact on the partner/organisation.



The Hon Julie Bishop MP, Minister for Education, Science and Training, presented the Awards at a gala dinner at The Arts Centre in **Melbourne** on **Tuesday, 14 November 2006**.

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Winning entries are:

Best Research & Development Collaboration

Winner: Brisbane Airport Corporation and Queensland University of Technology

Title: **Brisbane Airport Corporation/Queensland University of Technology Collaborative Partnership**

The BAC/QUT collaborative partnership seeks to implement world best practice to transform Brisbane Airport into an Airport City. It is based on a shared vision of mutual benefits that has resulted in a whole of organisation involvement for excellence in the management of a modern international airport, knowledge creation and application through robust scientific enquiry and academic rigour. QUT effectively functions as the R&D arm of BAC, whilst the airport provides a 'living laboratory' for QUT to undertake real world research and to strengthen its skills base.

The collaboration has allowed the delivery of relevant, multidisciplinary research outcomes through a wide ranging portfolio of projects and the realisation of tangible benefits. Additionally, other airports are looking to the Partnership for leadership in developing solutions to critical issues. QUT and other organisations view the Partnership as an exemplar model for industry and academia collaboration.

and

Winner: Edith Cowan University, WA Police Service, China National Computer Software & Technology Service Corporation (P R of China) and Northeast Normal University (P R of China)

Title: **Optical and Photonic Techniques for the Positive Identification of Forensic Ballistics Specimens**

The need for firearm identification systems by national and international police services continues to increase with greater accessibility to weapons. The difficulties associated with matching traditional images of ballistics specimens are numerous, and include the smallness of the samples, the nature of surfaces and shapes for the cartridge cases and projectiles.

Australian Police Services lack the funds to maintain a research and development program for the next generation of ballistics identification systems. Edith Cowan University advances the knowledge base in this discipline. The application of this project will enhance this knowledge base for the benefit of Australian Police Services. The potential to reduce the labour intensive activity of traditional ballistics identification provides the opportunity for rapid response in forensic ballistics analyses for state, national and military peacekeeping activities, with better crime detection rates by police at crime scenes. The Federal government has now placed a greater emphasis on a safer Australia.

Best Education & Training Collaboration

Winner: Motic China Group Co. Ltd., Australian Instrument Services Pty Ltd and Monash University (School of Biological Sciences, Teaching Facilities Support Unit)

Title: **Interactive Teaching Laboratory**

The project is about the continuing development and delivery of innovative, inspiring and effective learning and teaching environments in biology. The project involves a dynamic collaboration between a leading optical equipment manufacturer (Motic China Group) and a

major tertiary education unit (School of Biological Sciences (SBS) at Monash University). It was initiated while the SBS was exploring options for upgrading its teaching facilities. The collaboration has resulted in the development of a cutting-edge teaching and learning environment that links microscopes to computers and student computers to teaching computers, thereby creating a truly interactive digital teaching laboratory and further facilitating a range of emerging pedagogies. Although the original driving force for the project was to update and invigorate a specific undergraduate teaching facility, the opportunity to build on the experience and create a working showcase continues to enhance the project and collaboration

Best Collaboration involving a CRC – Research & Development or Education & Training

No Winner in this category.

Honourable Mention:

Australasian Cooperative Research Centre for Interaction Design and the Royal Children's Hospital Brisbane

Title: Diversionary Therapy Technology Devices

The Diversionary Therapy Technology project is about reducing pain and anxiety in burns in children.

Each year in Australia thousands of children undergo treatment for burns injuries. Treatment can involve removal of dressings and inspection of wounds, up to three times a week for several months.

Managing the severe pain associated with burns treatment is a constant challenge. Opioids are often inadequate, and this can lead to the patient avoiding or resisting treatment. Complementary cognitive techniques distract the patient during treatment – e.g. singing, breathing exercises, reading books or playing with toys – but become less effective over multiple sessions.

The Royal Children's Hospital Brisbane approached ACID to develop an easy-to-use diversionary therapy device incorporating augmented reality technology, with the aim of reducing pain scores among burns patients.

Best International Collaboration – Research & Development or Education & Training

Winner: Edith Cowan University, Emirates Group Security (Transguard), Emirates Airlines and International Civil Aviation Organisation

Title: Enhancing Security in an Increasingly Interdependent World – A global Collaboration with Emirates Airlines to serve international demand for Aviation Security Education and Training

Edith Cowan University has developed a strong partnership with Emirates Airlines, to develop and deliver specialised ECU Security programs to an International market. International terrorism and trans-border organised crime represent the major security challenge for Aviation sector stakeholders in the 21st century. Through the collaboration, ECU is positioning itself as a leading global provider of education and training to airlines, governments and international organisations to assist them in combating these major issues. The ECU partnership with Emirates has been active since 2001, and has developed into a joint venture Education Academy in Dubai running ECU programs in Security Management, Aviation Security, Crisis Management and Ground Handling. ECU has built on its work with Emirates Group to deliver these programs to new partners in Qatar, Oman, the United States and the United Nations World

Food Program. The programs are affiliated with the International Civil Aviation Organisation and the aviation security syllabus has been certified by the UAE General Civil Aviation Authority.

Best Collaboration with a Regional Focus – Research & Development or Education & Training

Winner: Flinders University, Riverland Regional Health Service, Riverland Medical Group, Lake Bonney Private Medical Clinic, Waikerie Medical Centre and Loxton Medical Clinic

Title: **Riverland Parallel Rural Community Curriculum**

The Parallel Rural Community Curriculum (PRCC) commenced in 1997. The PRCC has enabled for the first time students to spend an entire academic year based in rural General Practice. The PRCC is a collaboration between the University, the regional health service's and the regions private medical practices. The goals shared by the partners are to demonstrate the clinical excellence of rural practice to undergraduate medical students and to create a sustainable medical workforce in rural Australia.

The program's success has enabled diffusion of this innovative and collaborative approach to the Greater Green Triangle and Hills Mallee regions of South Australia, remote communities in the Northern Territory, 6 other Australian medical schools, and 4 international medical schools.

The program has resulted in a paradigm shift in the culture of medical education in Australia.

Honourable Mention:

University of South Australia, Dept of Education and Children's Services SA, Office of the North, Child and Adolescent Mental Health Service, Families SA and City of Salisbury Public Library Service

Title: University of South Australia Northern Adelaide Partnerships (UNAP)

The University of South Australia Northern Adelaide Partnerships (UNAP) is an innovative program that facilitates relationships in northern Adelaide between business, government and other agencies and the University of South Australia.

UNAP facilitates the development of partnerships that address the significant social disadvantage in the region both directly through program delivery and indirectly by addressing the professional development, evaluation and other needs of industry partners.

and

Honourable Mention:

Gosnells Armadale Business Development Organisation, City of Gosnells, Great Southern Area Consultative Committee, Albany Chamber of Commerce and Industry, Small Business Centre Great Southern, TAFE Great Southern and Small & Medium Enterprise Research Centre, Edith Cowan University.

Title: The Practical Employee Management Skills Program (PEMS)

This program is about providing practical, accessible training in employee management skills to small and home-based businesses, based on SMERC's action-based research which shows:

- ❖ Small and home-based businesses have a high failure rate and also fail to thrive;
- ❖ Operators generally offer quality goods and services, but often lack skills in HR management, financial management, marketing, IT usage;
- ❖ The sector is the 'non-glamorous' end of the Australian business research continuum and is largely overlooked;

- ❖ Rural and remote small businesses are even more neglected;
- ❖ Size, location, staffing and financial issues shut these business people out of assistance;
- ❖ Small and home-based business operators often feel isolated and alienated.



Award for the Best Entrepreneurial Educator of the Year 2006

Purpose

To recognise the importance of education in the process of developing and nurturing entrepreneurs; and to showcase best practice in entrepreneurial education.

WINNER:

Professor Scott Holmes

Dean of Graduate Studies and Professor of Accounting
The University of Newcastle

Professor Scott Holmes is currently Dean of Graduate Studies responsible for all research higher degree students at The University of Newcastle. He is also Professor of Accounting and Honorary Professor in the UQ Business School, The University of Queensland.

Professor Holmes was the inaugural recipient of the Federal Government's Small Business Research Award in 1990 and he has received a further 13 research grants since this award, primarily to study the decision processes and financial management of small and medium sized firms. In 2004 he was made a Life Member of the Small Enterprise Association of Australia and New Zealand.

In 1997 he was the founding Director of the Newcastle Graduate School of Business and in 1999 he established Gradschool.com. Gradschool.com has grown to over 900 students, has no debt and in 2005 generated \$5.5 million in revenues with a profit of \$1.4 million and a direct return to the University of \$3 million. In 2004, Gradschool.com was recognised as the sixth fastest growing business in the Hunter and Central Coast Region and in 2005 was the Online Business of the Year for the Hunter and Central Coast Region.

Professor Holmes is involved as an active member of many industry boards and committees and acts as an adviser to a range of businesses, particularly with respect to business strategy. He is currently working on an initiative to develop industry based PhD cohorts, supporting a more applied approach in an industry context.



Award for Outstanding Philanthropic Support of Higher Education 2006

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Purpose

To recognise support for higher education; and to draw attention to the extent of this support, the key role it plays in enabling important and innovative programs, and in leveraging further support.

WINNER:

Mr Michael Hintze

Title of Project or Program: Centre for International Security Studies, The University of Sydney

The Centre for International Security Studies at the University of Sydney was established in 2006 following a donation by Mr Michael Hintze to establish the Michael Hintze Chair in International Security Studies.

The gift of \$3.5 million, is the largest ever dollar amount donated by a living alumnus of the University of Sydney, and a gift of such size as to make Michael Hintze one of Australia's top half-dozen philanthropists.

The inaugural Hintze Professor, Professor Alan Dupont, was appointed in March 2006.

The Centre has been established on a permanent basis, and Mr Hintze's donation funds the Chair in International Security Studies in perpetuity, making his gift an enduring contribution to the endowment of Australia's oldest University.

Mr Hintze's support of the University of Sydney has been long-standing. Mr Hintze has made a number of generous gifts in recent years, both directly to the University and through the Friends of the University of Sydney UK Trust.

Mr Hintze has served for many years as a member of the Council of the University of Sydney UK Alumni Association. As such, he leads a group of distinguished alumni advocates who seek to grow the philanthropic support provided to the University of Sydney by alumni and friends resident in the United Kingdom.

Mr Hintze's gift has allowed the University of Sydney to create a Centre with a broad focus on security, addressing issues of economics, politics and social justice as well as military and strategic issues in a broad multidisciplinary context.

Mr Hintze's philanthropic gift has been a crucial step in assisting the University of Sydney towards making a key intellectual contribution in one of the most crucial areas of current national and international concern. His gift helps to broaden the pool of expertise available within Australian higher education in this essential area, promoting cross-disciplinary research into the area, and providing training to a new generation of professionals who deal with security issues, including government advisers, diplomats, police and journalists as well as researchers and analysts.

"It is an old Christian tradition," he says, "that 'we have an obligation to give something back.'"

Mr Hintze's own educational background is a distinguished one - he holds degrees in Science and Electrical Engineering from the University of Sydney (where he was Honorary Secretary of the Students' Representative Council), an MBA from Harvard Business School, and a Masters of Science in Acoustics from the University of New South Wales - and his father was a professor of Engineering at UNSW.

Mr Hintze also has a personal interest in the area of security studies. Prior to his career in finance, he served for several years in the Australian Army as a Captain in the Royal Australian Electrical and Mechanical Engineers.

This new Centre has three key objectives:

1. To produce cutting edge academic research on international security issues and foreign policy by encouraging integrated, multi-disciplinary approaches to the analysis of conflict and its consequences with a particular focus on the Asia-Pacific region.
2. To develop the next generation of academics and practitioners by offering internationally recognised postgraduate qualifications in international security studies.
3. To broaden and deepen public understanding of the emerging challenges to security and the nexus between interstate conflict, transnational forces and human insecurity.

Professor Ashley Goldsworthy AO OBE

Executive Director, Business/Higher Education Round Table

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14 November 2006

Note your diary – applications for next year’s Awards for Outstanding Achievement in Collaboration in Research & Development and Education & Training, Best Entrepreneurial Educator of the Year and Outstanding Philanthropic Support of Higher Education will be called in **May 2007**.