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1. Introduction

The Centre for Strategic Economic Studies was established in 1993, and over time has developed a reputation for producing high quality research outputs in applied economics with a focus on globalisation and the development of the knowledge economy, together with the implications of these trends for economic, social and political change. The Centre has also built a strong program in research training at the doctoral level, with more than twenty students being supervised for the PhD and DBA degrees at any one time.

The major factor affecting the Centre’s operations since 2006 has been working towards the challenging set of increased research output targets agreed with the Vice Chancellor, in return for the University’s investment in the Centre’s research activities of $3.25m over the period 2006 to 2010 from a total allocation of $15m under the University’s Priority Research Initiatives Program (PRIP). This has implied increased efforts to improve the quality of the Centre’s research and research training, and to develop CSES as a sustainable centre of international standing. Strong support has also been provided to these activities by the Faculty of Business and Law.

Four themes have emerged from the Centre’s work to date as of particular importance in the global knowledge economy:

- the central role of health, in terms of human welfare, technological change and economic growth;
- the impact of the convergence of information technologies and biotechnologies at the nano scale, which will have pervasive economic, industrial and social effects;
- the impact of rapid global growth on the environment and the climate, and the technological and policy responses to it; and
- increasing diversity at the regional and individual level, as economic returns concentrate increasingly on those who possess or can access knowledge.

These four themes define the four areas for the Centre’s development activity in PRIP, the key objective of which is to build a centre of excellence, of international scale and quality, by 2010. Work in these thematic areas is, as a matter of necessity, supported by a broader range of capabilities concerning the economics of growth, trade and welfare.

In seeking to achieve this objective a number of key imperatives have been identified:

- to develop core intellectual strengths in which CSES can be globally competitive;
- to grow in an organic manner from the existing base, and hence to strengthen the capabilities and performance of that base;
- to develop critical alliances and partnerships to support growth, both externally and within the University and particularly within the Faculty of Business and Law; and
- to recruit top people in the core areas, preferably with good links internationally and with proven records in both research and achieving competitive grant funding.

It is also necessary, while undertaking these activities, to ensure that the Centre remains financially viable and lives within its means.

The year 2008 was a year in which good progress was made in these various areas, although there were some disappointing outcomes also. Much effort continues to be put into improving the quality of the Centre’s research activities and outputs, especially outputs in the form of
articles in highly ranked journals. This is inevitably a slow process, both because of the time necessary for good research and because of the delays inherent in the journal refereeing process. But there are signs of progress, both in the publications data and in the number of papers under consideration by highly ranked journals.

Journal articles and other publications are detailed in the Appendix which provides a comprehensive list of the Centre’s research output. Table 1.1 uses three different ranking systems – ISI, the draft ERA ranking and the Business Deans (ABDC) ranking - to provide data on the journals in which CSES staff published in 2008. Of the 20 journal articles 7 (35%) were in journals with an ISI ranking; 12 (60%) had an ERA ranking, and 5 (25%) had an A ranking, while one journal was ranking in neither of these systems but included in the ABDC ranking.

<table>
<thead>
<tr>
<th>Table 1.1 Measured quality of CSES refereed journal articles 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ranking</strong></td>
</tr>
<tr>
<td>ISI ranked</td>
</tr>
<tr>
<td>ERA Ranking*</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>ABDC Ranking</td>
</tr>
</tbody>
</table>


The Centre’s key performance indicators are summarised in Table 1.2 and Chart 1.1. As the Centre develops there is a continuing tension between the demands of building a high quality research base and those of identifying and carrying out a large volume of funded contract research (see Chart 1.1).

As noted in last year’s report, while in 2007 much attention was given to improving quality, this was at the cost of a loss of focus on funded research activities, and the Centre’s external research income declined to only $752,000 in that year. In 2008 a better balance was achieved, and external research income rose by 84% from the low 2007 level (to $1.386 million) while research quality continued to improve. The indications are that both dimensions
will improve further in 2009 and into the future. But in the medium term the Centre needs to improve its performance in competitive research grant applications if it to achieve its overall goals.

The Centre acknowledges that it will be important in meeting the milestones of the PRIP, that external research income is increased along with research quality. Accordingly the Centre has increased its efforts on the submission of high quality, well focussed grant applications and continues to pursue major international projects with its collaborating and funding partners. Success rates on these applications have been disappointing to date, but will improve with sustained attention to quality.

Managing the balance between existing activities and the demands of long-term planning and development has continued to be challenging in other respects also during 2008. Graduate supervision has been further expanded and attention continued to be paid to upgrading the skills and output of existing staff. Table 1.2 below shows that overall publications (as measured by HERDC points) reached 50 in 2008, sustaining the increase that took place from 33 in 2006 to 45 in 2007. About 30 PhD and DBA students (20.25 on an EFT basis) were studying in the Centre in 2008. While there only three completions in 2008, many students have these close to completion or under examination, and 6-8 completions are expected in 2009.

Table 1.2 CSES summary of key performance indicators

<table>
<thead>
<tr>
<th>Year</th>
<th>Ext. research income ('000)</th>
<th>Publications (HERDC pts)(a)</th>
<th>Research staff (FTE)</th>
<th>Research students(b) (FTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>452</td>
<td>15.5</td>
<td>6.8</td>
<td></td>
</tr>
<tr>
<td>1999</td>
<td>467</td>
<td>9.3</td>
<td>8.8</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>821</td>
<td>7</td>
<td>8.2</td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>838</td>
<td>17.83</td>
<td>7.5</td>
<td>17.5</td>
</tr>
<tr>
<td>2002</td>
<td>923</td>
<td>14.83</td>
<td>8.7</td>
<td>17.5</td>
</tr>
<tr>
<td>2003</td>
<td>1227</td>
<td>20</td>
<td>8.3</td>
<td>12.5</td>
</tr>
<tr>
<td>2004</td>
<td>1122</td>
<td>18.3</td>
<td>8.8</td>
<td>12.75</td>
</tr>
<tr>
<td>2005</td>
<td>1157</td>
<td>39.5</td>
<td>10</td>
<td>20.5</td>
</tr>
<tr>
<td>2006</td>
<td>1049</td>
<td>32.8</td>
<td>10.6</td>
<td>23</td>
</tr>
<tr>
<td>2007</td>
<td>752</td>
<td>45.3(c)</td>
<td>14.7</td>
<td>25</td>
</tr>
<tr>
<td>2008</td>
<td>1386</td>
<td>50(d)</td>
<td>15.65</td>
<td>20.25</td>
</tr>
</tbody>
</table>

Notes: (a) Source VU Office for Research.
(b) Includes PhD and DBA supervision.
(c) Does not include CSES Research Associates total of 34.8.
(d) CSES estimates only.
2. Income

2.1 External research income (according to DEST categories)

External research income was $1,386,000 in 2008, an 84% increase on the low figure for 2007. As in the previous year, health related research provided an important foundation, generating funding of about $500,000. The Centre was successful in winning, against strong international competition, a concluding grant of US$200,000 for the Merck Company Foundation Program on Pharmaceutical Policy Issues, and also received some matching funding from the Victorian Government. The core of expertise developed within the Centre on health and the pharmaceutical industry attracts funding for additional projects. This included ongoing work for a major report prepared the APEC Life Sciences Forum meeting in Lima, Peru in August 2008 and the first work under the two year Chronic Disease Management Network (CDM Net project) with Monash and Deakin University. The project is focused on improving the management of diabetes in the Barwon Health, where it is being piloted, and it is hoped that the project will be rolled out in the Western Region if it is successful.

Prof Houghton’s ongoing work on the benefits of ‘open access’ for research publications gained international recognition when in 2007 he was commissioned by the Joint Information Systems Committee (JISC) in the UK, which has a mission of supporting education and research through the innovative use of ICT, to undertake a major study on the value of open access in the UK. JISC has a sizeable repositories program and Prof Houghton’s work on the broader economic value of open access is of considerable interest. JISC has allocated over $300,000 to the project. During 2008 this was extended to parallel open access projects with other countries in Europe, notably the Netherlands, Denmark and Germany.

Table 2.1 External research income 2007 and 2008 ($’000)

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Grants (ARC)</td>
<td>113</td>
<td>54</td>
</tr>
<tr>
<td>Other External Research Income</td>
<td>639</td>
<td>1332</td>
</tr>
<tr>
<td>Total research income</td>
<td>752</td>
<td>1386</td>
</tr>
</tbody>
</table>

Two important projects undertaken during 2008 arose out of the Australian Government’s plans to introduce an emissions trading scheme, the Carbon Pollution Reduction Scheme (CPRS). One was for the CRC for Rail Innovation and was entitled Transforming Rail: A Key Element in Australia’s Low Pollution Future. The project involved the preparation of ten individual studies and a final report. With funding of $200,000, it was led by Prof Sheehan but involved a number of the Centre’s key researchers. The other was a study of the impact of the emissions trading scheme for Victoria’s Latrobe Valley. Led by Dr Sally Weller and Prof Sheehan, it was entitled The Impacts of a CPRS in the Latrobe Valley, and attracted funding of $85,000.

2.2 Expenditure on direct infrastructure

The total expenditure on direct infrastructure – data, publications, software and equipment – within the Centre in 2008 is detailed below. The table excludes the personnel component of infrastructure expenditure. As in previous years, CSES investment in information sources is a significant cost item. This includes access to some large international databases, which are
routine for well funded research units overseas. They are essential to the quality of the Centre’s research.

Table 2.2 CSES research infrastructure expenditure 2008 ($)

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information resources</td>
<td>20,715</td>
</tr>
<tr>
<td>Computer equipment</td>
<td>12,775</td>
</tr>
<tr>
<td>Computer software</td>
<td>25,338</td>
</tr>
<tr>
<td>Total</td>
<td>58,829</td>
</tr>
</tbody>
</table>


3. Outputs

Although the Centre has placed an increasing emphasis on high quality refereed journal publications, much of the output of the Centre is in the form of research reports written under contract for various agencies, as well as publications in books and conference presentations. The income from contract research helps to support those outputs that count as such for DEST purposes (e.g. refereed publications and supervision of PhD students). A full CSES publications list and research activities are presented in Appendix A1.2.

3.1 CSES total weighted HERDC publications 2008

Table 3.1 CSES publications HERDC points

<table>
<thead>
<tr>
<th>Format</th>
<th>Number</th>
<th>HERDC points (est.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>3</td>
<td>15.000</td>
</tr>
<tr>
<td>Chapters in books</td>
<td>9</td>
<td>6.500</td>
</tr>
<tr>
<td>Journal articles, refereed</td>
<td>20</td>
<td>17.335</td>
</tr>
<tr>
<td>Conference papers, refereed</td>
<td>12</td>
<td>11.160</td>
</tr>
<tr>
<td>TOTAL points</td>
<td></td>
<td>49.995</td>
</tr>
</tbody>
</table>

3.2 Evidence of strong quality dimension within the published output

The table below provides details of CSES refereed journal articles for 2008 and forthcoming in 2009. DEST points, ISI ranking and ERA rankings\(^1\) are also provided.

Table 3.2 Refereed journal article details and impact, 2008 and forthcoming 2009

<table>
<thead>
<tr>
<th>2008 Article Details</th>
<th>HERDC points (est.)</th>
<th>ISI impact factor</th>
<th>ERA ranking</th>
</tr>
</thead>
</table>


TOTAL HERDC POINTS 17.335

Note: *ABDC ranking.

3.3 Number of PhD and DBA completions, since 2000

<table>
<thead>
<tr>
<th>Student</th>
<th>PhD thesis title</th>
<th>Supervisor</th>
<th>Year completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kim Sweeny</td>
<td>Accounting for Growth in the Pharmaceutical Benefits Scheme</td>
<td>Peter Sheehan</td>
<td>2008</td>
</tr>
<tr>
<td>Kashif Rashid</td>
<td>A Comparison of Corporate Governance and Firm Performance in Developing (Malaysia) and Developed</td>
<td>Sardar Islam</td>
<td>2007</td>
</tr>
</tbody>
</table>
Alexis Esposto  
(Australia) Financial Markets  
The Impact of Technology on Earnings Inequality in Australia  
Peter Sheehan 2005

Sally Weller  
Liberalisation on Commodity Chains in the Australian Clothing Industry  
Peter Sheehan 2004

Dexin Yang  
Foreign Direct Investment from Developing Countries: A Case Study of China’s Outward Investment  
Bhajan Grewal 2004

Jamie Sanderson  
An Analysis of Climate Change Impact and Adaptation for South East Asia  
Sardar Islam 2003

Mathew Clarke  
Is Economic Growth Desirable? A Net Benefit Index Analysis of Economic Growth in Thailand  
Sardar Islam 2003

Yvonne Dunlop  
Low Paid Earners in the Australian Labour Market  
Peter Sheehan 2002

Yan Guo  
Peter Sheehan 2002

Asoka Wettasinghe  
The Diversity and Effectiveness of Industrial Policies in East Asia: A Case Study of the Republic of Korea, Malaysia and Thailand 1960–1997  
Peter Sheehan 2002

Galina Tikhomirova  
Information Technology Industries and National Competitiveness  
Peter Sheehan 2002

<table>
<thead>
<tr>
<th>Student</th>
<th>DBA thesis title</th>
<th>Supervisor</th>
<th>Year completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex Manzoni</td>
<td>A Performance Measurement Model for a Productive Unit of a Commercial Enterprise in Australia</td>
<td>Sardar Islam</td>
<td>2007</td>
</tr>
<tr>
<td>Mohamed Rusydi</td>
<td>The Determination of the Efficient Exchange Rate: Mathematical Models and Applications to Indonesia</td>
<td>Sardar Islam</td>
<td>2006</td>
</tr>
<tr>
<td>Mohammad Aba-Bulgu</td>
<td>Stochastic Optimisation Model for Financial Planning</td>
<td>Sardar Islam</td>
<td>2004</td>
</tr>
<tr>
<td>Christina Mak</td>
<td>Cost-Benefit Analysis Related to Pharmacoeconomics</td>
<td>Sardar Islam</td>
<td>2005</td>
</tr>
<tr>
<td>Songporn (Beau) Hansanti</td>
<td>Financial Liberalisation and the Crisis in Thailand in 1997</td>
<td>Peter. Sheehan</td>
<td>2004</td>
</tr>
<tr>
<td>Mohani Abdul</td>
<td>Personal Income Tax Non-Compliance in Malaysia</td>
<td>Peter Sheehan</td>
<td>2001</td>
</tr>
</tbody>
</table>

3.4 List of technology transfer activities

| Workshops and participation in conferences* | 10 |
| Invited papers and presentations          | 25 |
| Research reports                          | 15 |

Note: Includes organizing or chairing conferences, does not include presentations. See Appendix for details.
4. Staff 2008

The Centre has over a period of years built a small but highly qualified team, capable of producing high quality research outputs in applied economics, with a focus on better understanding the forces of globalisation, the development of the knowledge economy and their implications for economic, social and political change. Funding under PRIP has given CSES the opportunity to take this to a new level. Along with the appointment of Prof Frank Lichtenberg of Columbia University, New York as an Adjunct Professor in 2006, Dr Sally Weller and Dr Brant Liddle, were both appointed as Senior Research Fellows in 2007 from funding provided by PRIP. In 2008 Dr Andrew Van Hulten joined the staff, as a University post-doctoral fellow. Also during 2008 agreement was reached that Dr Alex English would come to the Centre from Chinese University of Hong Kong as a University post-doctoral fellow, and that Prof Bob Gregory and Dr Roger Jones (from ANU and CSIRO respectively) would join the Centre in 2009.

4.1 Staff holding research grants or research contracts

John Houghton  
George Messinis  
Dana Nicolau  
Bruce Rasmussen  
Peter J. Sheehan  
Kim Sweeny  
Greg Tegart  
Tran Van Hoa  
Sally Weller

4.2 Number of equivalent full-time research staff 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter J. Sheehan</td>
<td>1</td>
</tr>
<tr>
<td>Bruce Rasmussen</td>
<td>1</td>
</tr>
<tr>
<td>Frank Lichtenberg</td>
<td>0.25</td>
</tr>
<tr>
<td>John Houghton</td>
<td>1</td>
</tr>
<tr>
<td>Sardar M.N. Islam</td>
<td>1</td>
</tr>
<tr>
<td>Bhajan Grewal</td>
<td>0.6</td>
</tr>
<tr>
<td>Tran Van Hoa</td>
<td>0.6</td>
</tr>
<tr>
<td>Greg Tegart</td>
<td>0.4</td>
</tr>
<tr>
<td>Ainsley Jolley</td>
<td>0.5</td>
</tr>
<tr>
<td>Kim Sweeny</td>
<td>1</td>
</tr>
<tr>
<td>Enjiang Cheng</td>
<td>0.2</td>
</tr>
<tr>
<td>Sally Weller</td>
<td>1</td>
</tr>
<tr>
<td>Brant Liddle (March-December)</td>
<td>1 (0.833)</td>
</tr>
<tr>
<td>George Messinis</td>
<td>1</td>
</tr>
<tr>
<td>Ahmed Abdullahi</td>
<td>1</td>
</tr>
<tr>
<td>Fiona Sun</td>
<td>0.2</td>
</tr>
<tr>
<td>Dana Nicholau</td>
<td>0.4</td>
</tr>
<tr>
<td>Alison Welsh (July-December)</td>
<td>1 (0.5)</td>
</tr>
<tr>
<td>Neelam Maharaj (March-December)</td>
<td>0.4 (0.833)</td>
</tr>
<tr>
<td>Andrew van Hulten</td>
<td>1</td>
</tr>
<tr>
<td>Alex English (September-December)</td>
<td>1 (0.33)</td>
</tr>
<tr>
<td>Stephen Parker</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL FTE 15.65
5. Students 2008

As well as supervising PhD students enrolled directly with the Centre, CSES staff are also involved as supervisors of the thesis component of a number of DBA students enrolled with the Faculty. See Appendix for more details.

5.1 Number of equivalent full-time research students (including DBAs) supervised by CSES staff, 2008

<table>
<thead>
<tr>
<th>PHD student name</th>
<th>Thesis title</th>
<th>Supervisor</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Jim Brumby</td>
<td>Fiscal Space and Budgetary Management</td>
<td>Bhajan Grewal</td>
<td>0.5 (0.25)*</td>
</tr>
<tr>
<td>3. Helena Grunfeld</td>
<td>Innovative Models for Telecommunications Network Deployment in Developing Countries</td>
<td>John Houghton</td>
<td>0.5</td>
</tr>
<tr>
<td>4. Thi Thanh Van Hoang</td>
<td>Strategic Market Planning for Second-Tier Cities: An Application to Vietnam</td>
<td>Tran Van Hoa</td>
<td>1</td>
</tr>
<tr>
<td>5. Baharuddin Muhammad Hussin</td>
<td>Dynamic Behaviour of Earnings and Capital Market Responses (Volatility and Anomaly): A Risk Management Perspective</td>
<td>Sardar Islam</td>
<td>1 (0.5)*</td>
</tr>
<tr>
<td>6. Baliira Kalyebbara</td>
<td>Using Expected Value of Perfect Information to Improve Capital Budgeting Decision Making</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>8. Yew Choe (Nicholas) Lum</td>
<td>Econometric Study of the Foreign Exchange Market</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>9. Prabodh Malhotra</td>
<td>Pharmaceutical Industry and Public Health in Developing Countries: A Comparison Study of India and China</td>
<td>Bhajan Grewal</td>
<td>1</td>
</tr>
<tr>
<td>10. Valerie McGown</td>
<td>The Effectiveness of Quality Control Systems in Australia and Japan: A Comparative Analysis</td>
<td>Peter Sheehan</td>
<td>0.5</td>
</tr>
<tr>
<td>11. Kevin Morgan</td>
<td>Capital Investment in Broadband Infrastructure</td>
<td>Peter Sheehan</td>
<td>1</td>
</tr>
<tr>
<td>12. Siti Nuryanah</td>
<td>Capital Markets, Accounting Irregularities and Corporate Governance</td>
<td>Sardar Islam</td>
<td>1 (0.5)*</td>
</tr>
<tr>
<td>13. Stephen Parker</td>
<td>A Study of Renewable Energy and Emissions Policy</td>
<td>Peter Sheehan</td>
<td>1 (0.5)*</td>
</tr>
<tr>
<td>14. Quynh Anh Pham</td>
<td>Industrialisation in Vietnam: An Analysis of Manufacturing Competitiveness and Policy Options</td>
<td>Peter Sheehan</td>
<td>1</td>
</tr>
<tr>
<td>15. Bruce Rasmussen</td>
<td>Development Paths of Australian Biomedical Companies</td>
<td>Peter Sheehan</td>
<td>0.5</td>
</tr>
<tr>
<td>16. Chokchai Suwetwattanakul</td>
<td>Knowledge Management in Thai Organisations</td>
<td>Sardar Islam</td>
<td>1</td>
</tr>
<tr>
<td>17. Kim Sweeny</td>
<td>Competition in Australian Pharmaceutical Markets and the Returns to Innovation</td>
<td>Peter Sheehan</td>
<td>0.5 (0.25)**</td>
</tr>
<tr>
<td>18. John Symons</td>
<td>Corporate Climate Change Risk Management: An Investment Decision Model</td>
<td>Sardar Islam</td>
<td>1</td>
</tr>
</tbody>
</table>
19. Syurkani Syurkani  
Inflation Dynamics and Monetary Policy in Indonesia  
Peter Sheehan  1

20. Thanet Wattanakul  
Economic and Trade Policy in Thailand: An Econometric Approach  
1

TOTAL PHDs FTE 14.5

*Commenced in Semester 2, 2008.
**Semester 1, 2008 only.

<table>
<thead>
<tr>
<th>DBA student name</th>
<th>Thesis title</th>
<th>Supervisor</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Arun Anton</td>
<td>Project Appraisal Methods</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>3. Rodney Con Foo</td>
<td>SME Exit and the Role of Risk and Uncertainty</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>4. Victoria Gonzalez</td>
<td>Accounting Information, Corporate Governance and Firm Performance: An Econometric Study</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>5. Kumudini Heenetigala</td>
<td>Board Leadership, Corporate Governance and Firm Performance</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>6. Socrates Karagiannidis</td>
<td>Mergers and Acquisitions in Australia: Reasons and Timing</td>
<td>Peter Sheehan</td>
<td>0.5</td>
</tr>
<tr>
<td>9. Toh Ung</td>
<td>Factors for Successful Franchising in Australia</td>
<td>Sardar Islam</td>
<td>0.5</td>
</tr>
<tr>
<td>10. Neale Wardley</td>
<td>Effectiveness of Tradable Emissions Permits in the Abatement of Greenhouse Gases</td>
<td>Peter Sheehan</td>
<td>0.5</td>
</tr>
</tbody>
</table>

TOTAL DBAs FTE 5.75

*Commenced in Semester 2, 2008.

5.2 PhD and DBA completions since 2000

<table>
<thead>
<tr>
<th>Year</th>
<th>PhD completions</th>
<th>DBA completions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2001</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>2002</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>2003</td>
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<td>2004</td>
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<td>2006</td>
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<tr>
<td>2007</td>
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<td>1</td>
</tr>
<tr>
<td>2008</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>
5.3 Proportion of postgraduate research students employed within 3 months of completion

All CSES PhD students except for 2 were employed within 3 months, with student unknown. Galina Tikhomirova (finished 2002) returned to Russia and did not seek immediate employment. Guo Yan (finished 2002) and chose to look after her family. Joseph Camilleri (finished 1997) went overseas and it is not known if and when he obtained employment.
6. University Involvement

Victoria University has embarked on a major repositioning of its core teaching and research activities to ensure closer alignment to the changing needs of students, enterprises and communities. The Making VU program provides the initial plan and approach for moving the University towards its objectives by 2016. The Centre has made a significant contribution to the information base on which this major strategic initiative is founded, through two projects commissioned by the Vice-Chancellor.

6.1 Industry and community cluster studies

One key aspects of the program is to align courses across the sectors around 12 industry and community clusters. A roundtable of industry representatives for each cluster has been established. The Centre has drafted a briefing paper on each cluster, which is designed to draw on national and international information sources to provide background on the economic trends and the prospects for employment in each cluster. The common format reviews the global context for the particular sector, how the sector has performed in Australia, and employment trends at a state and Western Region level. The papers are initially provided to Course Coordination Committees before being combined with student and course data for consideration by the Roundtables.

Papers have been prepared for:

- Education and Transition
- Sport and Recreation
- Hospitality and Tourism
- Transport and Logistics
- Financial and Economic Services
- Law and Legal Services
- Marketing Services
- Engineering and Infrastructure
- Human Services
- Information and Communication Technology
- Health
- Cultural and Creative Industries

The work has been undertaken by Bruce Rasmussen and Neelam Maharaj, with assistance from other CSES staff. The Centre’s involvement was at the specific request of the Vice-Chancellor who saw it as an opportunity to draw on the Centre’s expertise to further the strategic objectives of the University.

6.2 The Diversity and Performance of Students at Victoria University

During 2008 the Vice-Chancellor also commissioned CSES to undertake a study to understand the diversity and academic performance of the student population at the University, which is a multi-sector institution serving in good part a low income, diverse community in the west of Melbourne. The University’s student population varies across a number of dimensions that are central to current policy debates, including socio-economic status, cultural and language diversity, the interaction between work and study and the differences and similarities between vocational and higher education. This study was not only intended to improve the ability of the University to support its own students but also to provide insights for national policy and for other education providers facing similar complex educational challenges.
The study was based on data from the Victoria University Student Information Service (VUSIS), accessed in February 2008. The project database contains 350,000 unit records of student enrolments for the period 2003-2007 inclusive, covering 130,000 different students. Given the operational focus of VUSIS, different types of enrolments are treated differently, but for higher education students the basic unit of record is the enrolment for a given course for a semester. The central measure used in this analysis is unique student enrolments in each year, where the enrolment activity of a given student in a particular year is the unit of analysis. 108,000 students provided an Australian home address (which may differ from the address at which they live during the academic year), and some 92,000 of these were successfully geocoded to Census Collectors Districts (CCDs) for the 2006 Census year. This allowed the full range of economic and social information on individual CCDs available from the Australian Bureau of Statistics, Census 2006 to be utilised in the analysis.

Two reports emerged from the project. These were provided to the Vice-Chancellor and the senior management, and widely dispersed through the University to assist decision-making processes. The studies were led by Dr George Messinis, with support from Prof Peter Sheehan and Dr Zdenko Miholcic.

The first report sketched the diversity of the student body at Victoria University over the period 2003-07. In particular, it reported aggregate measures of diversity by age, gender, socio-economic status (SES), cultural and linguistic diversity (CALD), institutional sector, course, and labour force status. Exploratory cluster analysis utilised student characteristics data to identify significant segments of Victoria University’s student population in 2007. The second report built on the first to identify the key factors that the impact on the academic progress of VU students in 2007. Both of these reports are available on the Centre’s website.
7. Faculty Involvement

7.1 Funds and in kind contribution from the faculty

For the calendar year 2008 the Faculty paid $100,000 to the Centre in terms of general research centre support, and provided a number of other cash and in-kind forms of support, including research incentives, for specific Centre activities. The support provided by many individuals within the management structure of the Faculty, from the Executive Dean down, is greatly appreciated.

7.2 Number of full-time equivalent Faculty staff attributing work and grants through the unit/centre

The Centre has a wide variety of linkages with members of staff of other Departments and Centres within the Faculty of Business and Law. Currently the CSES has 51 research associates from a variety of departments within the university, the vast majority of which were within the Faculty of Business and Law. It also has 6 research associates from other organisations. See Appendix for the full list of research associates and their affiliations.

7.3 Listing of other activities demonstrating interaction between Faculty and Centre (e.g. teaching and supervision arrangements)

Supervision: The centre supervised 10 DBA students during 2008, all of which are enrolled in the Victoria Graduate School of Business (FOBL) rather than the CSES (see list in Section 5.1).

Teaching: Prof. Sardar Islam taught 3 subjects in 2008 in the Doctorate of Business Administration Program:

- Corporate Governance (shared)
- Business Research Methods
- Research Proposal Preparation and Writing Corporate Governance (shared)

Joint publications:


Joint doctoral supervision: Prof. Sardar Islam with Profs Colin Clark, Stephen Martin, Anona Armstrong, Ray Anderson, and Dr Nick Billington.

Joint research and collaboration activities: At an individual researcher level the Centre also has a range of collaborative activities with various members of staff and students within the Faculty. Consideration is being given to documenting them more fully and extending them, making use of new research facilitation arrangements within the Faculty.
8. External Collaborations and Partnerships

8.1 List of long-term (>than 2 years) strategic research collaborations with other research institutions

<table>
<thead>
<tr>
<th>Australian National University</th>
<th>Monash University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbia University</td>
<td>Nanjing Agricultural University</td>
</tr>
<tr>
<td>Deakin University</td>
<td>Peking University</td>
</tr>
<tr>
<td>Loughborough University</td>
<td>Tsinghua University</td>
</tr>
</tbody>
</table>

8.2 List of long-term (> 2 years) strategic research partnerships with external organisations

Asian Development Bank (Manila)
Association for Chinese Economic Studies (Australia)
APEC (LISF)
AusAID
Ausbiotech Ltd
Australian Computer Society
Australian Greenhouse Office
Bristol Myers Squibb
Business Council of Australia
Committee for Economic Development of Australia (CEDA)
CSIRO
Department of Broadband, Communications and the Digital Economy
Department of Education, Science and Training (DEST), Canberra, now DEEWR
Department of Industry, Tourism and Resources (DITR), Canberra, now DIISR
Department of Innovation, Industry and Regional Development (DIIRD), Victoria
Eli Lilly (Australia)
IBM Life Sciences
Joint Information Systems Committee (JISC) (UK)
Loughborough University (UK)
Medicines Australia
Merck Company Foundation (US)
Merck, Sharp and Dohme (Australia)
Organization for Economic Cooperation and Development (France)
Pfizer Pty Ltd
SEEK
StarPharma
US PhRMA (US)
Vietnam Institute for Trade (Ministry of Trade) (Hanoi)
Western Australian Technology and Industry Advisory Commission (TIAC)
World Bank (US)

8.3 Advisory Board

Ms Jane Niall DIIRD
Mr Peter Wilson AHRI
8.4 Any measures or indicators of esteem (e.g. editorship of journals, member of learned associations)

Reviewer for journal articles


Messinis, G. (2009) February, Reviewer for an article in *Education Economics*.

Rasmussen, B. 2008, September, Reviewer for an article in *Innovation: Management, Policy and Practice*.

Sweeny, K. 2008, December, Reviewer for an article in *Australian and New Zealand Journal of Public Health*.


Book reviews


Examiner of PhD thesis


Editorial duties

Sardar Islam:

- Editorial Advisory Board Member, *Journal of Modelling in Management*
- Associate Editor, *Asia-Pacific Journal of Accounting and Economics*
- Editorial Board Member, *International Journal of Monetary Economics and Finance*
- Editorial Board Member, *Journal of Accounting, Business and Management*
Editorial Board Member  International Journal of Electronic Customer Relationship Management
Australia New Zealand Editor  International Journal of Environmental Creation

John Houghton  Editorial Board  Telecoms Policy

Submissions to external/public enquiries


Messinis, G. 2008, Submission to ‘Review Panel for the National Centre for Hellenic Studies and Research’, La Trobe University, September.
CSES Activities 2008

This year was one in which the Centre made significant progress in expanding its research programs to achieve its overall objectives. This is evident in the comprehensive list of research activities provided in the table below, and in the Centre’s research outputs for 2008 listed in the next section.

### PROJECTS AND GRANTS RECEIVED

<table>
<thead>
<tr>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Victoria University PRIP</td>
<td>The CSES was successful in a bid for funding through the <strong>Victoria University Priority Research Innovation Program (PRIP)</strong> for investment in research over 2006–2010. The Centre received $3.25 million ($650,000 per year) for the period for research in the area ‘The Global Knowledge Economy in the 21st Century’. The key objective is to build a centre of excellence, of international scale and quality, by 2010, with a focus on the following areas: converging technologies – applications, implications and policy; medicines, health outcomes and industry development; energy use and climate change in the new economy; and governance and regional development issues. Main developments in 2008 was the receipt of external research funding supporting the program from the CRC on Rail Innovation and the Australasian Rail Association on the impact of emissions trading on the rail industry, and from the Department of Treasury and Finance (VIC) on the impact on the Latrobe Valley of emissions trading (see details below). Andrew van Hulten joined the research team with a postdoctoral position and 4 new PhD students participated in the program in 2008.</td>
</tr>
<tr>
<td>Merck Company Foundation PPPI</td>
<td>The Centre has been successful, against global competition, in being awarded one of ten grants of US$200,000 per annum under the <strong>Merck Company Foundation Program on Pharmaceutical Policy Issues (PPPI)</strong> for a further three years, 2006–2008. The PPPI grants support outstanding faculty members and scholars capable of providing education and training, conducting rigorous, independent, policy-related research, and disseminating information related to pharmaceuticals and health. The central focus of the research is how companies, governments and other agencies respond to the major new round of product innovation in pharmaceuticals that is under way, and to the radical advances in science that are transforming the technological basis of the industry. The CSES project has four streams: (1) The Pharmaceutical Industry to 2010; (2) Health Costs, Drug Cycles and the Benefits of Innovation; (3) Innovation and Cost Management in Pharmaceutical Pricing; and (4) Structural Change, Innovation and Industry Development. Research outcomes for 2008 can be divided into three major projects completed – studies on value in the biopharmaceutical industry, the Australian Pharmaceutical Benefits Scheme and on the return to large scale investment in health innovation in the developing countries of APEC – and into a number of smaller scale projects.</td>
</tr>
<tr>
<td>DIIRD matching grant</td>
<td>The Victorian Government, through the Victorian <strong>Department of Innovation, Industry and Regional Development (DIIRD)</strong>, has supported the Merck Company Foundation Grant mentioned above by providing matching funding of US$50,000 per annum for the three years 2006–2008.</td>
</tr>
<tr>
<td>DITR and DIIRD CDM-NET</td>
<td>The Commonwealth <strong>Department of Industry, Tourism and Resources (DITR)</strong> and Victorian <strong>Department of Innovation, Industry and Regional Development (DIIRD)</strong>, DIIRD have agreed to provide $2 million each over two years to fund the CDM-NET Innovative Services Delivery Project (Barwon Region). CSES share is $200,000. The project has becoming operational. The overall CDM-Net Project is an $8.7 million pilot program, led by Precedence Research together with Barwon Health, to develop and test network-based methods to monitor and treat diabetes in the Barwon region. The commercial partners include IBM, CISCO, Intel and...</td>
</tr>
</tbody>
</table>
Working Systems Solutions, and the universities involved are Monash, Deakin and Victoria Universities. The project’s Research and Evaluation Plan defines three research projects for which CSES will be the lead agency:

- Estimation of the overall public benefits of CDM-Net (health outcomes and costs, and other costs and benefits, linked to the case for a further roll out);
- Business realisation and development evaluation (market potential in Australia and overseas for the products and service arising from the CDM-Net; and
- Consultation with Melbourne Western Region related to potential roll out in the region.

### CRC for Rail Innovation

The CSES produced a final report of a project undertaken for the CRC for Rail Innovation, to study the implications of the introduction of an emissions trading scheme, and of potential responses to climate change more generally, on the rail industry in Australia. The analysis reported here is backed up by more detailed work contained in ten supporting papers, which will be also available from the CRC for Rail Innovation. A list of those papers is provided in Appendix of the final report. Total funding for the final report and papers was $180,000. The supporting papers are to be finalized in early 2009.

### APEC LISF VI

The APEC Life Sciences Innovation Forum (LISF) program provided funding in health research for US$90,000 in 2008. A framework paper was prepared by Peter Sheehan, Bruce Rasmussen and Kim Sweeny in collaboration with Zheng Xiaoying from the Institute for Population Research (Peking University, Beijing). It was presented at the Sixth Annual APEC Life Science Innovation Forum (LISF VI) in Lima, Peru in 14-15 August 2008, titled ‘Investing in the Future: An Assessment of the Returns to Investment in Health Innovation’. Peter Sheehan is Co-chair of the APEC LISF.

### Department of Treasury and Finance

A draft report was presented in November 2008 to the Department of Treasury and Finance titled: Carbon Pollution Reduction Scheme: Adjustment Strategy for the Latrobe Valley. This report examines the social and economic impacts that a carbon pollution reduction scheme (CPRS) is likely to produce in Victoria’s Latrobe Valley, the brown-coal rich region where most of Victoria’s electricity is currently generated. The report’s content is based on a review of reports and submissions on the CPRS and its regional impacts, detailed analysis of unpublished ABS Census and other statistical data, as well as interviews with key stakeholders in the Latrobe Valley. The final report will be delivered in February 2009 with total funding of $87,200.

### ICT JISC project Funding

John Houghton at the CSES has become a leading player internationally in the debate about open access to research findings. He has been working with the European Knowledge Exchange to advance national studies on these issues. The major focus of recent activity has been a series of studies exploring the Economic Implications of Alternative Scholarly Publishing Models. The main project has been funded by the UK Joint Information Systems Committee (JISC), and the report’s publication in January 2009 marked the culmination of a year long project led by John Houghton, involving Bruce Rasmussen and Peter Sheehan, together with a six person team based in the UK, led by Prof. Charles Oppenheim at Loughborough University. The release of the report was noted in The Times Higher Education (THE) and elsewhere. Funding for the report totalled £100,000.

CSES, jointly with Loughborough University, received a grant of approximately from the Joint Information Systems Committee (JISC) in the UK in late 2007 to study open access issues. The project was finalised in late 2008 with the final report due in January 2009 titled: ‘Economic Implications of Alternative Scholarly Publishing Models: Exploring the Costs and Benefits’.

JISC also provided funding for two other projects in 2008 with John Houghton as principal.

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2 The European Knowledge Exchange is a European group working to support the use and development of ICT infrastructure for higher education and research. The sponsoring partners are the Joint Information Systems Committee (JISC) in the United Kingdom, Denmark’s Electronic Research Library, the German Research Foundation, and the SURF Foundation in the Netherlands.
CSES investigator. The first project was in collaboration with the Department of Information Science (Loughborough University, UK) on ‘Identifying Benefits Arising from the Curation and Open Sharing of Research Data Produced within UK Higher Education and Research Institutes: Exploring Costs and Benefits’. Funding totalled £50,000.

The second project was in collaboration with EIM Business and Policy (Zoetermeer, The Netherlands) was titled ‘Costs and benefits of Research Communication: The Dutch Situation’, with funding totalling €28,739.

OECD ICT projects

Working as a consultant to the Organization for Economic Cooperation and Development (OECD), in the past John Houghton has helped define a research program on digital delivery and produced a number of the reports arising from it. In 2008, funding was provided with John Houghton as lead investigator from the (France) and the National Academy of Science (NAS) (USA) on the Economics of Scientific Publishing and Public Sector Information. See Other Activities below for more details.

The OECD also provided funding on globalization and trade in ICTs, with John Houghton finalizing two chapters of the OECD Information Technology Outlook (2009); and on ICTs and the environment. Total funding for 2008 was $27,500.

DBDCDE funding

The Department of Broadband Communications and Digital Economy (DBCDE) (Canberra) provided funding for a project titled ‘Digital Economy Benchmarking of Australia at the Sectoral Level’, for a project carried out with the collaboration of the Strategic Networks Group (Ontario, Canada) and funding worth AUS$97,750. CSES researchers include John Houghton, Bruce Rasmussen and Alison Welsh.

ARC funding

Professor Tran Van Hoa was granted an ARC Linkage grant for the years 2009-2011 on the ‘Impact of Australia-ASEAN Trade Liberalisation on Development and Poverty in Asia: An Econometric Analysis’. The industry partner is the Vietnam Trade Institute (Ministry of Trade, Vietnam), with Dr Nguyen Van Lich as Partner Investigator. Funding for AUS$300,000 was obtained for the three-year period.

Dr Sally Weller received funding from an ARC APD-ECR\(^2\) Fellowship on the restructuring of Australia’s aviation industry and labour market after the collapse of Ansett Airlines with 2008 funding of $63,931.

Associate Professor Danny Ben-Moshe is joining CSES in January 2009 and his appointment relates to an ARC Linkage (2nd Round) grant titled: Australian Diasporas and Brain Gain: Exploring Current and Potential Transnational Linkages which now will be undertaken at CSES. Danny Ben Moshe is chief investigator along with C. Hugo (University of Adelaide), L. Baldassar (University of Western Australia) and T. Joiner (La Trobe University). Partner investigators are S. Francis (Centre for Multicultural Youth Issues) and O. Andreevski (Embassy of the Republic of Macedonia). Linkage partners are the Victorian Multicultural Commission, the Australian Vietnamese Women’s Welfare Association, the Centre for Multicultural Youth Issues, the Embassy of the Republic of Macedonia, COASIT Italian Historical Society, the Italian/Australian Welfare and Cultural Centre Inc., and the Council for International Trade and Commerce SA Inc. Total ARC funding for the years 2008-2011 is $255,750.

DITR and DIIRD CDM-NET

The Commonwealth Department of Industry, Tourism and Resources (DITR) and Victorian Department of Innovation, Industry and Regional Development (DIIRD), DIIRD have agreed to provide $2 million each over two years to fund the CDM-NET Innovative Services Delivery Project (Barwon Region). CSES share is $200,000. The project is now becoming operational.

The overall CDM-Net Project is an $8.7 million pilot program, led by Precedence Research together with Barwon Health, to develop and test network-based methods to monitor and treat diabetes in the Barwon region. The commercial partners include IBM, CISCO, Intel and Working Systems Solutions, and the universities involved are Monash, Deakin and Victoria.

\(^2\) An APD is an Australian Research Council (ARC) Postdoctoral Fellowship and an ERC is an ARC Early Career Research Fellowship.
Universities. The project’s Research and Evaluation Plan defines three research projects for which CSES will be the lead agency:

- Estimation of the overall public benefits of CDM-Net (health outcomes and costs, and other costs and benefits, linked to the case for a further roll out);
- Business realisation and development evaluation (market potential in Australia and overseas for the products and service arising from the CDM-Net; and
- Consultation with Melbourne Western Region related to potential roll out in the region.

**SEEK funding**

The CSES continues on with a joint research venture which commenced in 2005 with SEEK Limited in developing the SEEK Employment Index. Peter Sheehan and George Messinis with the collaboration of Ahmed Abdullahi and Zdenko Miholcic at CSES have developed the index, which is the first Australian indicator to directly compare labour market supply with labour market demand. The SEEK index has been created to complement existing indicators from the Australian Bureau of Statistics (ABS) and the ANZ jobs ads series. Funding received for 2008 totalled $102,000.

**CRCSI**

The CRC for Spatial Information (CRCSI) commissioned ACIL Tasman to conduct a study on the economic impact of the spatial information industry in Australia. The CSES together with the John Curtin Institute of Public Policy at Curtin University in Western Australia was commissioned in September 2008 to complement and provide data for an update of the work of ACIL Tasman, as well as to inform the CRCSI and the geospatial community within Australia of current spatial industry trends. Bruce Rasmussen heads the team at CSES with the assistance of Peter Sheehan, John Houghton, Alison Welsh and Dana Nicolau. John Phillimore heads the team from Curtain University assisted by Paul Koshy and Jeff Harwood. Total funding for the project is $63,900 with a project duration of 6 months.

**CRD BID**

The CRC for Biomedical Imaging Development (BID) commissioned the CSES to conduct a study on “An Economic Analysis of Expected Benefits from the CRC BID’s Research Program” in September 2008. The research team is headed by Bruce Rasmussen with the assistance of Kim Sweeny, Frank Lichtenberg and Alison Welsh. Total funding for the project is $30,000 with a duration of approximately 6 months.

**Smart Water project**

Sally Weller and Alex English finalised a report titled aimed at developing a better understanding of the social and economic effects of Class 3a water restrictions on sporting fields in within Melbourne. The report provided the social economic component of the “Sustainable Water Options for Sportsfields Project” which is funded by the Victoria Government’s Smart Water Program and coordinated by the Centre for Sustainability at VU. Funds received by CSES for the report delivered in December 2008 $28,000.

**Recycled Water project**

In 2008, the Sustainable Water, Environment and Innovation division of the Department of Sustainability and Environment commissioned Victoria University to undertake exploratory research to determine the level of demand and/or interest in the commercial and industrial use of recycled water in metropolitan Melbourne. The CSES (Sally Weller) and the Centre for Sustainability and Innovation (Nicholas Milne and Stephen Grey) jointly conducted this research titled ‘Commercial and Industrial Use of Recycled Water in Melbourne Exploratory Research’, in November and December 2008. The final report will be produced in 2009.

**OECD Working Party on Nanotechnology**

Two case studies were conducted by Bruce Rasmussen as part of the Australian contribution to a project on the business environment for nanotechnology being conducted for the OECD Working Party on Nanotechnology. Interviews were conducted in Western Australia for reporting to the project. Funds totalled $7,500 and the duration of the project was 2 months.

**Health reports**

An important milestone has been reached in CSES health research with the completion of a study on The Creation and Capture of Value in Biopharmaceuticals. This study carried out by Bruce Rasmussen with the assistance of Peter Sheehan and Alison Welsh has been accepted by the publishing firm Edward Elgar for publication of a book to be finalised in
Kim Sweeny with the assistance of Peter Sheehan has finalised a study on: *Accounting for Growth in the Pharmaceutical Benefits Scheme* which is under consideration for publication as a book. In addition further attention is being given to finalisation of a policy book concerning the pharmaceutical industry in Australia (for which a contract has been signed with Melbourne University Press), and to the publication of further papers. Late in 2008 the Centre also began a new study for Medicines Australia on the analysis of the recent reforms to the PBS.

Kim Sweeny was asked to provide advice to Eli Lilly Australia for use in the Federal Court Proceedings relating to Eli Lilly’s Australian patents and their expiration. A fee of $13,500. was paid for this service.

### Victoria University cluster studies

CSES was commissioned in 2007 by the Vice Chancellor of *Victoria University* to prepare industry briefing papers for 12 Industry Roundtables and Course Coordinating Committees (CCC) as part of ‘Making VU Happen’ initiative. In 2008 reports on *Engineering and Infrastructure, Human Services, Legal Studies and Law, and Cultural and Creative Industries*, have been completed by Bruce Rasmussen and Neelam Maharaj. Total funds in 2008 was

### VU Vice Chancellor’s Office

This monograph reports on a unique study undertaken by the CSES for the VU Vice-Chancellor’s Office in 2008 to explore the success rates for different segments of the highly complex student body at Victoria University (VU). VU is a multi-sector institution serving a low income, diverse community in the west of Melbourne and its student population varies across a number of dimensions that are central to current policy debates, including socio-economic status, cultural and language diversity, the interaction between work and study and the differences and similarities between vocational and higher education students.

The report titled: *The Diversity and Performance of the Student Population at Victoria University* was published in June 2009, and an update produced in December 2009 titled: *The Diversity of the Student Population at Victoria University*.

While this study is intended to improve the ability of VU to support its own students, it may also provide insights for national policy and other education providers facing similar complex educational challenges. Total funds received in 2008 were $60,000.

### VU ARC Discovery near miss funding

The CSES received funding for a near miss ARC Discovery grant application. The ARC grant application was submitted in March 2007 titled ‘Emissions Paths and New Technologies in the New Global Economy: Implications for Climate Outcomes, Damage Probabilities and the Timing and Nature of Policy Responses’. Chief investigators were Peter Sheehan, Sardar Islam and Brant Liddle. Partner investigator was Roger Jones from the CSIRO. Funding received totalled $20,000.

### PUBLICATIONS HIGHLIGHTS

#### New books 2008


The edited book was published by *Edward Elgar* and editors were Tran Van Hoa and C. Harvie (University of Wollongong). It was and voted Book of the Month by the publishers.

CSES researchers authored 5 of the 14 chapters (Tran Van Hoa, Enjiang Cheng, Prabodh Malhotra and Bhajan Grewal). See publications list below for details. The published papers had been presented in a high-level international seminar in Melbourne on 24-25 November 2005 convened by Tran Van Hoa. The theme of the seminar was Issues of Trade, Development and Integration in an Enlarged ASEAN (the Association of the 10 Southeast Asian nations) where ASEAN is to be enlarged to include the world’s other major countries..
and trading blocs outside the ASEAN region. It was organised by the CSES and funded by AusAID and the Faculty of Business and Law at Victoria University.

Forthcoming books

Four books have also been accepted for publication with prestigious international publishers and will be available in 2009. They are Financial Liberalisation in Developing Countries: Issues, Theories, Time Series Econometric Analyses and Policy Making by A. Ahmed and Islam (Springer), Performance Measurement in Corporate Governance: DEA Modelling and Implications for Organisational Behaviour and Supply Chain Management by A. Manzoni, and S.M.N. Islam (Springer), Designing an Efficient Management System by T. Raoprasert and S.M.N. Islam (Springer), and Innovation and Commercialisation in the Biopharmaceutical Sector: Creating and Capturing Value by B. Rasmussen (Edward Elgar).

Report launched

Greg Tegart was Lead/Chief investigator for the Energy and Nanotechnologies: Strategy for Australia’s Future report by the Australian Academy of Technological Sciences and Engineering (Melbourne). The report was launched on 14 September by Minister Carr at Monash University in Melbourne.

CSES publications

In summary, CSES staff and students totalled 3 authored books (publishers Springer and Elsevier) and 1 edited book (publisher Elgar), with 4 books accepted for publication (publishers Elgar and Springer). As for research papers, they produced 15 chapters in books (commercial publishers), 26 refereed journal articles (11 of these forthcoming 2009) and 13 refereed and published conference papers. Staff were invited to present 24 papers and/or presentations in Australia and overseas, and produced 15 research reports.

PARTICIPATION IN HIGH LEVEL CONFERENCES, SEMINARS AND WORKSHOPS

Training course

While the role of econometric modelling for policy analysis (using say the methods of growth regression, panel regression, structural equation modelling, and CGE/GTAP) has been recognised and used in most developed and Western countries world-wide, an appropriate modelling methodology with more credible or realistic outcomes for use by corporate and government policy-makers in both developed and developing countries alike is still to be developed. A new development with improved features and outcomes in this field, the Generalised or Endogenous Gravity Theory (GGT or EGT), was proposed in 2002 by Tran Van Hoa and used successfully since. This advanced modelling tool has now been officially adopted by the Government of Vietnam (Ministry of Industry and Trade – MOIT) for practical economic and trade policy analysis by its researchers, experts and decision-makers.

A training course on the GGT or EGT and its applications, funded partially by Vietnam Institute of Trade (VIT – Vietnam), was organised at its headquarter in Hanoi on 2 May 2008 for select government officials and academics from major ministries and universities in Vietnam, titled Innovation and Technology in Vietnam: Policy Modelling Training for Academics and Government Officials. A total of over 40 officials and academics attended the course. MOIT is now actively seeking support to further develop and disseminate this new modelling methodology to study major current areas of national development priorities to enhance the country’s capacity, trade, growth and external relations.

International conference highlights and participation

Bhajan Grewal was asked to provide comments on the draft Final Report presented by CASS, outlining the proposed budgetary reforms in China presented at the International Seminar on Establishing Comprehensive Budget Management System, held at the National People’s Congress Conference Center, Beijing on 5-6 November. Among the notable attendees were: Mr. Yao Sheng, Vice Minister of Budget Affairs Commission of the National People’s Congress and Mr. Xia Guang, Director General of Budget Examination Office of Budget Affairs Commission of the National People’s Congress.

Tran Van Hoa was invited to present a paper ‘China’s Education and Development and its Comparative Efficiency Competitiveness’, at the International Conference on Basic Public Services Equalisation in China, China Institute for Reform and Development (CIRD), Haikou, China, on 22-23 February. A wide range of 'hot' topics on major aspects of public services in China, covering education, health care, rural and regional development, urban-rural gaps, legal foundation, tax reform, and social security, were discussed and debated by more than 250 senior academics and
government officials (including two Vice Ministers) from all over China and 17 international experts (eg. from Australia, France, Sweden, the UK), UNDP Resident Representative and Senior Economist. The conference proceedings were nationally televised and reported by 21 mass media networks.

**Tran Van Hoa** co-organised with Prof. Anoop Chaturvedi of Allahabad University, India, an international conference on ASEAN-India Economic and Trade Relations, taking place in the Department of Economics, Allahabad University on 25-26 September 2008. The conference was funded by AusAID and United Nations Commission on Trade and Development. He also presented a keynote paper on ‘China-India Trade Competitiveness and Relations: Substantive Evidence for Growth, ‘Look East’ Policy and Economic Diplomacy’.

**Tran Van Hoa** was panellist at a high-level conference on ‘Emerging Asian Regionalism: ASEAN-India FTA and Beyond’ organised by India’s think-tank Research and Information System for Developing Countries (RIS) on 29 September 2008 in New Delhi. At the conference, he also delivered a paper on ‘ASEAN-India Economic and Trade Relations’.

**Tran Van Hoa** co-organised with Profs Komail Tayebi and Charles Harvie, the 7th Asia-Pacific Economic Forum international conference on East and West Asia Economic and Trade Relations during 3-5 November 2008 at two universities in Iran: University of Sistan and Baluchestan and University of Isfahan. The conference was funded by numerous institutions in Iran including the Central Bank of Iran and the Presidency of Iran, and nationally reported and televised by the media. At the conference, Tran Van Hoa also delivered the paper ‘Impact of Oil, Crises and Economic Integration in East-West Asia Economic and Trade Relations’.

**Chair or discussant of conference**

**Bhajan Grewal** was invited to chair a workshop on NDRC Project Completion and Dissemination Visit to Australia, Policy Discussion, Melbourne Workshop, held in Melbourne on 31 March 2008.

**Tran Van Hoa** was invited to be a high-level discussant of the paper ‘Balanced Development of Compulsory Educations: Current Situation and New Policy Measures’ by Tan Songhua at the International Conference on Basic Public Services Equalisation in China, China Institute for Reform and Development (CIRD), Haikou, China, on 22-23 February.

**Tran Van Hoa** chaired a session at the Second Conference of Micro Evidence on Innovation in Developing Economies (MEIDE), United Nations University (Maastrict, The Netherlands) and Renmin University of China, Beijing, 21-23 April, 2008.

**Tran Van Hoa** was invited to be a special session panel discussant of the paper ‘Korea’s ODA Strategy and Activities on Poverty Reduction: Case of KOICA’, by Hyun-Sik Chang from the Korea International Cooperation Agency, at the Korea and the World Economy Conference VII, Korea Institute of Public Finance, Seoul, and Kangwon National University, Chunchoen, Korea, 20-21 June.

**Sally Weller** chaired a session at the ARCSSIS and ANZRSA Conference, People, Place and Space: Rethinking Regional Policy Agendas, Adelaide, 30th November - 3rd December.

**Travel Fellowship**

**Sardar Islam** received an invitation and travel fellowship, to the 2nd R&DID International Conference 2008, March 3-4, 2008 at University of the Thai Chamber of Commerce, Bangkok.

**OTHER ACTIVITIES AND ACHIEVEMENTS**

**US National Academy of Sciences**

**John Houghton** was invited to a joint US National Academy of Sciences/OECD conference on The Socioeconomic Effects of Public Sector Information on Digital Networks: Toward a Better Understanding of Different Access and Reuse Policies. John has also participated in the compilation of a summary publication from the event, shortly to be published by the National Academy of Sciences, and sits on a steering committee of the National Academy of Sciences, Board of International Scientific Organizations.

**MOU between VU and**

International Marketing: A collaboration MOU has been signed by VU and Uniten, Malaysia.
United, Malaysia

Sardar Islam and M. Rusydi (former CSES DBA student) initiated this collaboration. A PhD student in finance (Baharuddin Hussin) has come from Uniten as a result of this MOU to do his PhD at CSES/VU.

Lecturing

Sardar Islam lectured in 3 DBA subjects on Corporate Governance (shared), Business Research Methods, Research Proposal Preparation and Writing, at the Victorian Graduate School of Business, Victoria University.

Tran Van Hoa lectured in the Human Resources and Labour Economics Masters Program at Chulalongkorn University, Thailand.

Award

Sardar Islam had an invited paper for the International Prize of Environmental Creation of 2007 (by the Institute of Environmental Creation International) for research contributions by Sardar M.N. Islam to study environmental problems. The paper was co-authored with S.M.N. Islam and is forthcoming (adaptation policy options for climate in South East Asia’, International Journal of Environmental Creation).

Adjunct Professor

In 2008 Sardar Islam was Adjunct Professor of the Department of Finance and Decision Sciences, Hong Kong Baptist University, Hong Kong.

New staff at CSES

Dr Roger Jones, formerly Principal Research Scientist, CSIRO, has accepted a Professorial Research Fellow position. He will join the CSES in February 2009.

Dr Alex English, formerly of City University, Hong Kong, received a postdoctoral research position beginning in 2009, related to several projects of the CSES PRIP area ‘Governance and Regional Issues’. He has been working at CSES since September 2008.

Associate Professor Danny Ben Moshe will be joining CSES part-time in January 2009 in the position of Senior Research Fellow. His appointment relates to an ARC Linkage grant awarded for 2008-2010 (see details above).

Also joining the CSES part-time as part of this ARC Linkage grant is Joanne Pyke. She has been employed as Research Fellow and will commence work in April 2009.

New PhD students

Steven Parker, A Study of Renewable Energy and Emissions Policy (supervisor Peter Sheehan).

Jim Brumby, Fiscal Space and Budgetary Management (supervisor Bhajan Grewal).


Siti Nuryanah, Capital Markets, Accounting Irregularities and Corporate Governance (supervisor Sardar Islam).

Editorial duties

Bhajan Grewal was invited to be Guest Editor of the journal Public Finance and Management (SPAEF, Altanta Georgia), for a symposium on Public Finances in China. In 2009, he has been invited to be Guest Editor of the same journal for another symposium on Fiscal Decentralisation.


Tran Van Hoa was nominated an Executive Fellow and to the Editorial Board of the Asian Forum on Business Education (AFBE) Journal, based in Thailand.

Research Impact

Medicines Australia (Canberra) published in 2008 a report titled Innovating for Life. This report drew data and information from the CSES publication produced in 2007 by Peter Sheehan and Kim Sweeny titled The Value of Medicines.
Theses finalized

Sudath Arumaperruma finished his PhD thesis at CSES on The Role of Information Technologies in Disseminating Innovations in Agribusiness: A Comparative Study of Australia and Sri Lanka.

Bruce Rasmussen finalized his PhD studies on Creating and Capturing Value in the Biopharmaceutical Sector, which will be published by Edward Elgar in 2009.

Kim Sweeney also finished his PhD thesis on Accounting for Growth in the Pharmaceutical Benefits Scheme. The manuscript is being presented to publishers and an article submitted to the Australian Health Review.

Ibrahim Al-Rahbi finalized a DBA study on An Empirical Study of the Key Knowledge Economy Factors for Sustainable Economic Development in Oman.

Lastly Tanachart Raprasert finalized a DBA thesis on Japanese Management Adaptation, Particularly in Thailand, which will be published by Springer in 2009.

CSES Detailed Research Publications and Output 2008

Publications and research outputs achieved by the Centre in 2008 are listed in full below.

Books authored (DEST category)


Books accepted for publication


Books edited


Chapters in books (DEST category)


Journal articles refereed (DEST category)\(^4\) 2008 (see Section 3.2)

Journal article others


Submitted articles


Conference papers and presentations, invited

4. Grewal, B. 2008, ‘From Input Controls to Outcome-Based Budgeting: The Case of Australia’, invited and refereed paper presented at the International Seminar on Establishing Comprehensive Budget Management System, jointly organised by the Budget Affairs Commission of the National People’s Congress of China, Chinese Academy of Social Sciences (CASS) and China Australia Governance Program (CAGP) Conference Center of National People’s Congress, Beijing, China, 5-6 November.

\(^4\) ERA ranking used are listed at http://research.vu.edu.au/ordsite/management/ERArankings.xls


Conference papers (refereed and published)


Conference, People, Place and Space: Rethinking Regional Policy Agendas, Adelaide, 30th November - 3rd December.

Conference papers and presentations (some refereed, not published)


CSES research reports


**External seminars and courses**


2. Messinis, G. and Ahmed, A. 2008, ‘Valuable skills, human capital and technology diffusion’, presented at La Trobe University (August), University of NSW (August), University of Ioannina (September), and University of Queensland (October).

**PhD Theses**


**DBA Theses**


**Submitted papers**


   ISI Impact Factor (2007 edn): 2.292


   ISI Impact Factor (2008 edn): 0.418
   ISI Impact Factor (2008 edn): 0.418

   ISI Impact Factor (2006 edn): 0.643

    ISI Impact Factor (2007 edn): 0.473


**Internal seminars**


**CSES working papers**


**Podcast**


**Research impact**

Houghton, J. Many government and industry reports from around the world have cited his work this year.
Sheehan, P. and Sweeny, K. 2007, *The Value of Medicines*, CSES Report prepared for Medicines Australia. Data and information from this report was used in the Medicines Australia 2008 report *Innovating for Life*. This report drew information from the *Value of Medicines* report the CSES undertook for Medicines Australia in 2007. While the publication includes medical and statistical information (much of it sourced from the CSES report), it is largely written from the perspective of the patients – real Australians confronting major health challenges – people who have benefited from personal access to new and improving medicines.

Sheehan, P. and Houghton, J. 2000, ‘A Primer on the Knowledge Economy’, CSES, Melbourne. Dr Franco Vaccarins (Senior Lecturer, College of Business, Dept of Communication, Journalism & Marketing, Massey University, Wellington NZ) requested permission to include this primer in their 2nd year undergraduate students’ readings list, 26 August.


In April, Weller was invited to address Prof. Roy Green and other Commissioners for the Federal Government’s Review of the Textiles Clothing and Footwear Industries.

Weller’s (2004, 2006, 2007) work on the fashion industry was included in the review of (theoretical) progress in Cultural Industries research in the prestigious journal *Progress in Human Geography*.


**Media interviews**

Presenter: Tito Ambyo,
Speakers: Tran Van Hoa with Aviva Imhof, Campaign Director, International Rivers


‘Discussion of the latest statistics from the NBS, which show that China's GDP for the first three quarters was 9.9 percent. For more on the global situation Professor Peter Sheehan, Director of the Center for Strategic Economic Studies at Victoria University in Australia is interviewed.’

China Radio International, (CRI) is the only overseas broadcaster in the People's Republic of China. CRI was founded on December 3, 1941 and is owned and operated by the state. CRI is one of the "three central media organizations in China" along with China National Radio (CNR) and China Central Television (CCTV). People In the Know on CRI is China's only English-language political current affairs program on CRI. PIK covers events that shape not only China, but the world as well.

On JISC Research Project (CSES and Loughborough University, John Houghton et al.)


“Professor John Houghton's work to explore the social and economic impact of open access has had a significant impact on debates in his native Australia. Currently working for JISC to investigate the UK experience in this area, he talks to Philip Pothen about his work, the wider benefits of institutional repositories and why he thinks the open access argument is now won.”


“Dr. John Houghton, Professorial Fellow at Victoria University's Centre for Strategic Economic Studies and Director of the Centre's Information Technologies and the Information Economy Program, is interviewed by Philip Pothen about open access benefits.”

**Media coverage**

On Australian ICT Trade Update 2007 (ACS, John Houghton, 2007),

On *Open Access Project* (John Houghton, 2008), some examples:

http://www.timeshighereducation.co.uk/story.asp?sectioncode=26&storycode=405222&c=1
http://www.resourcehelf.com/2009/01/27/research-reveals-economic-case-for-open-access-publishing/
http://www.earlham.edu/~peters/fos/newsletter/03-02-09.htm
http://www.iwr.co.uk/information-world-review/news/2238083/publishers-denounce-jisc-open

On Weller’s work on retrenchment, cited by:

## CSES Research Associates

### External

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<th>Name</th>
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<td>Executive Education</td>
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<td>2.</td>
<td>Professor Nicolae Bulz</td>
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<td>Ecological University, Bucharest, Romania</td>
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<td>3.</td>
<td>Dr Matthew Clarke</td>
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<td>Deakin University</td>
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<td>Dr Hans Lofgren</td>
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<td>Dr Sethapong (Paul) Watanapalachaikul</td>
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