Annual Report for
The Centre for Efficiency and Productivity Analysis (CEPA)

For the year ended 31 December 2013
Overview of the Centre (including Mission Statement)

The main purpose of the Centre is to provide a focal point for research, consultancy and training in efficiency and productivity analysis in Australia and the Asia/Pacific Region.

The principal aims and objectives of the Centre are to undertake theoretical and applied research, develop useful end-user-driven short courses and workshops and to develop computer software for use by private and public sector organizations. Specific objectives are:

- to assess and develop methods for the measurement of productivity, efficiency and economic performance;
- to apply these methods to assess the performance of firms, industries and sectors within the domestic and international economies;
- to conduct research directed towards explaining and interpreting patterns of productivity and economic growth across nations;
- to conduct ex post assessment of the effects of microeconomic reform and deregulation on productivity and efficiency;
- to provide technical advice to private and public sector and international organizations on efficiency and productivity measurement; and
- to offer short courses and workshops to researchers, managers and policy analysts from various sectors of industry and government.
Agreed objectives for 2013 Calendar Year

Agreed objectives:

- Continue to produce high quality journal publications.
- Continue to provide high quality supervision to our PhD students and encourage them to produce journal publications from their research.
- Continue to attract high profile visitors and good quality PhD students to work on projects undertaken by CEPA staff.
- Continue to seek external research funding through consultancies and grants.
- Deliver at least two three-day short-courses on introductory and/or advanced productivity and efficiency analysis methods.

Performance against agreed objectives:

In 2013 CEPA staff:

- produced seventeen journal publications, fourteen conference papers, nine working papers, one monograph, one edited book and three book chapters.
- were involved in the supervision of five PhD students;
- hosted thirteen international visitors;
- applied for external research funding through the ARC (unsuccessfully)
- presented three short courses and a number of seminars;
- ran two workshops,
- served in journal editorial roles and made various other contributions to the profession.
Governance

The governance of the Centre is through the CEPA Advisory Committee consisting of Professor C.J. O’Donnell (Director), Professor C.A.K. Lovell, Professor D.S.P. Rao, Associate Professor C. Nauges, Associate Professor A.N. Rambaldi, Associate Professor V. Zelenyuk and Dr A. Peyrache.

The Advisory Committee usually meets once a year. Members of the Committee meet informally on a more regular basis to prepare tenders for consulting projects and interim and final reports for research projects.

The Director consults with the Head of the School of Economics on all substantive matters relating to the Centre.
List of Staff Associated with Centre

**Director**

Professor Chris O’Donnell

**Other Staff**

Dr Mohammad Alauddin  
Associate Professor Necmi Avkiran  
Associate Professor Phil Bodman  
Professor John Foster  
Professor Knox Lovell  
Associate Professor Renuka Mahadevan  
Associate Professor Celine Nauges  
Dr Antonio Peyrache  
Professor John Quiggin  
Associate Professor Alicia Rambaldi  
Professor D.S. Prasada Rao  
Associate Professor Valentin Zelenyuk

**Postdoctoral Fellows**

Dr Renuka Ganegodage

**Research Associates**

Dr George Battese  
Professor Tim Coelli
Publications List for 2013 Calendar Year

Books and Monographs


Book Chapters


Journal articles


Conference papers


**Working papers**


### Research Students Associated with Centre

<table>
<thead>
<tr>
<th>Degree</th>
<th>Name</th>
<th>Enrolled</th>
<th>Submitted</th>
<th>Awarded</th>
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<tr>
<td>PhD. ongoing F/T</td>
<td>Thanh Nguyen</td>
<td>02/13</td>
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<tr>
<td>PhD. ongoing F/T</td>
<td>Kelly Trinh</td>
<td>06/13</td>
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<td></td>
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<tr>
<td>PhD. ongoing F/T</td>
<td>Chandana Maitra</td>
<td>02/08</td>
<td>11/12</td>
<td>04/13</td>
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<tr>
<td>PhD. ongoing F/T</td>
<td>Shabbir Ahmad</td>
<td>06/09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph.D. ongoing P/T</td>
<td>Roger Carrington</td>
<td>06/06</td>
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<td></td>
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Seminars

Lovell, C.A.K. *Imperfect Optimisation*. HEC School of Management, Université de Liège, Belgium

Lovell, C.A.K. *Enjoying Economic Research*. Institute of Business and Management, National Chaio Tung University, Taipei, Taiwan

Lovell, C.A.K. *Imperfect Optimisation*. Advanced Lecture Workshop, School of Business, Soochow University, Taipei, Taiwan


O’Donnell, C.J. *Econometric Estimates of Productivity and Efficiency Change in the Australian Northern Prawn Fishery*. Queensland University of Technology, 2 May.


O’Donnell, C.J. *Econometric Estimates of Productivity and Efficiency Change in the Australian Northern Prawn Fishery*. Centre for Applications in Natural Resource Mathematics (CARM), University of Queensland, 13 August.

Zelenyuk, V. *To Smooth or Not to Smooth? The Case of Discrete Variables in Nonparametric Regressions*, Kyiv School of Economics, Kyiv, Ukraine. September.
Short Courses


Conferences and Workshops

*Empirical Applications in Efficiency and Productivity Analysis*, University of Queensland, Australia, 4 October.

*Productivity and Econometrics*, University of Queensland, Australia, 31 October.
Significant External Service

Lovell, C.A.K.

- Member of Scientific Advisory Committee, European Workshop on Efficiency and Productivity Analysis
- Member of Advisory Committee, North American Productivity Workshop
- Member of Organizing Committee, Asia Pacific Productivity Workshop

O’Donnell, C.J.

- Co-Editor, Journal of Productivity Analysis
- Member of Editorial Board, Empirical Economics
- Member of Organizing Committee, Asia Pacific Productivity Conference

Rao, D.S.P.

- Elected Member of the Council of the International Association for Research in Income and Wealth, 2012-2018.
- Associate Editor, Journal of Productivity Analysis
- Member of Editorial Board, Review of Income and Wealth
- Member of Organizing Committee, Asia Pacific Productivity Conference

Zelenyuk, V.

- Associate Editor, Journal of Productivity Analysis
- Chair of Organizing and Scientific Committee, Asia-Pacific Productivity Conference (APPC) to be held at The University of Queensland, 8-11 July, 2014.
Visitors to the Centre:

Professor Bert Balk  
*Erasmus University*  
16 – 23 November 2013

Dr Tamara Bergstra  
*Wageningen University*  
11 – 21 November 2013

Dr Agnieszka Bezat  
*Warsaw University of Life Sciences*  
25 August – 6 October 2013

Professor Erwin Diewert  
*University of British Columbia*  
21 October – 1 November 2013

Professor Rolf Fare  
*University of Oregon*  
12 – 15 March 2013

Dr Sophie Gorgemans  
*Universidad de Zaragoza*  
7 July – 7 September 2013

Professor E. Grifell-Tatjé  
*Universitat Autònoma de Barcelona*  
November 2013

Professor Robert Hill  
*University of Graz*  
2 – 6 December 2013

Professor Sreenivas Jammalamadaka  
*University of California – Santa Barbara*  
8-23 September 2013

Dr Hirotaka Matsuda  
*University of Tokyo*  
30 July – 27 September 2013

Professor B. Park  
*Seoul National University*  
27 October – 10 November 2013

Dr Michael Scholz  
*University of Graz*  
2 – 6 December 2013
Agreed objectives for 2014 Calendar Year

- Continue to produce high quality journal publications.
- Continue to provide high quality supervision to our PhD students and encourage them to produce journal publications from their research.
- Continue to attract high profile visitors and good quality PhD students to work on projects undertaken by CEPA staff.
- Continue to seek external research funding through consultancies and grants.
- Run the Asia-Pacific Productivity Conference
- Deliver at least two short-courses on introductory and/or advanced productivity and efficiency analysis methods.

Centre Director  
Professor C.J. O’Donnell

Head of School  
Professor Rodney Strachan