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

For the year ended 31 December 2012
Annual Report for
The Centre for Efficiency and
Productivity Analysis (CEPA)

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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 2012 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 a three-day short-course on introductory and/or advanced productivity and efficiency analysis methods.
- Conduct a one-day workshop on empirical applications of efficiency and productivity analysis.

Performance against agreed objectives:

In 2012 CEPA staff:

- produced fifteen journal publications; ten conference papers; eight working papers; and two book chapters.
- were involved in the supervision of four PhD students;
- hosted twelve international visitors;
- were awarded two major research contracts;
- 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 Neemi 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 Harry Campbell
Professor Tim Coelli
Dr Howard Doran
Publications List for 2012 Calendar Year

Book Chapters


Journal articles


**Conference papers**


**Working papers**


**Other Publications**

## 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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<tbody>
<tr>
<td>PhD. ongoing</td>
<td>Shabbir Ahmad</td>
<td>06/09</td>
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<tr>
<td>Ph.D. ongoing</td>
<td>Briege Allan-Greer</td>
<td>03/03</td>
<td></td>
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<tr>
<td>Ph.D. ongoing</td>
<td>Roger Carrington</td>
<td>06/06</td>
<td></td>
<td></td>
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<tr>
<td>Ph.D. ongoing</td>
<td>Franklin Soriano</td>
<td>03/03</td>
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Research Grants and Contracts Awarded

• Title: *Improving Likelihood Estimators: Theory and Applications to Analyzing Productivity and Efficiency and Forecasting of Probability of Economic Recession*
  Project: ARC Discovery Project DP130101022
  Investigators: Zelenyuk, V., Park, B. and L. Simar

• Title: *Efficiency Analysis of Public Hospital Acute Admitted Services*
  Uniques Project No. CPO 001017
  Client: Commonwealth Department of Health and Ageing
Seminars

Avkiran, N. Can Australian credit unions and building societies compete with commercial banks? Expanding the regulator's toolkit. NZ Reserve Bank, Wellington, February.

Avkiran, N. Measuring Bank Peer Performance from a Multiple-Stakeholder Perspective. Massey University, Palmerston North, February.

Avkiran, N. Measuring Bank Peer Performance from a Multiple-Stakeholder Perspective. Nihon University, Tokyo, February.

O’Donnell, C. Econometric Estimates of Productivity and Efficiency Change in the Australian Northern Prawn Fishery University of Melbourne, 29 August

O’Donnell, C. Econometric Estimates of Productivity and Efficiency Change in the Australian Northern Prawn Fishery Universidad Adolfo Ibáñez, Viña Del Mar, Chile, 16 August


Zelenyuk, V. Scale Efficiency: Equivalence of Primal and Dual Measures. Department of Econometrics, University of Auckland, New Zealand.
Short Courses


Conferences and Workshops

*Empirical Applications in Efficiency and Productivity Analysis*, University of Queensland, Australia, 28 September.

*Index Number Methods in Theory and Practice*, University of Queensland, Australia, 22 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.

- Member of Australian Bureau of Statistics (ABS) Productivity Measurement Reference Group (PMRG)
- Member of Commonwealth Department of Health and Ageing (DoHA) Aged Care Benchmarking (ACB) Consultative Group
- Associate Editor, *Journal of Productivity Analysis*
- Associate Editor, *Empirical Economics*

Rao, D.S.P.

- Elected Member of the Council of the International Association for Research in Income and Wealth, 2012-2018.
- Member of the Economics and Commerce (EC) Research Evaluation Committee for the 2012 Excellence in Research for Australia (ERA)
- Associate Editor, *Journal of Productivity Analysis*
- Member of Editorial Board, *Review of Income and Wealth*

Zelenyuk, V.

- 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:

A/Professor Christine Amsler  
*Michigan State University*  
11 July – 10 August 2012

**Professor W.E. Diewert**  
*University of British Colombia and University of NSW*  
October 2012

**Dr Andrea Filippetti**  
*London School of Economics and Political Science*  
August 2012

**Professor E. Grifell-Tatjé**  
*Universitat Autònoma de Barcelona*  
15 October – 11 November 2012

**Professor B. Park**  
*Korea National University*  
November 2012

**Professor B. Los**  
*University of Groningen*  
July 2012

**Professor Sugata Marjit**  
*Centre for Studies in Social Sciences, Calcutta*  
29 April – 19 May 2012

**Professor Peter Schmidt**  
*Michigan State University*  
11 July – 10 August 2012
Agreed objectives for 2013 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.
- Deliver at least two three-day short-courses on introductory and/or advanced productivity and efficiency analysis methods.

Centre Director
Professor C.J. O’Donnell

Head of School
Professor Flavio M. Menezes