

Curriculum Vitae - May 2006

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John Madden, *BEC (ANU), BA, DipEd, PhD (Tas)*, has been Deputy Director of the Centre of Policy Studies at Monash University since July 2004. He joined CoPS as an Associate Professor in 2002 and was appointed as a Professor in April 2006. Prior to joining CoPS, Madden was Director of the Centre for Regional Economic Analysis at the University of Tasmania from 1991 to early 2002. Madden was a Visiting Fellow at the University of Melbourne in 1987 and a Scientific Fellow at Erasmus University in the Netherlands for six months in 1992/93. During 2001 and 2002 Madden was part of a Stanford University research team working on federalism in a global environment.

Madden is one of six Councillors-at-Large on the International Council of the Regional Science Association. He is also a former President of the Australian and New Zealand section of the Regional Science Association (1999-2000) and of the Tasmanian branch of the Economic Society of Australia (1986-88). He is a member of the editorial boards of *Papers in Regional Science* and *Australasian Journal of Regional Studies*, and is book review editor of *Sustaining Regions*.

Madden has undertaken around 120 grant-supported and commissioned studies. These include economic studies of the redistribution of federal government grants to the Australian states, national competition policy, the goods and services tax, the safety net review, numerous major investment projects (e.g. the Very Fast Train, North West Shelf Gas, Basslink) and hallmark events (e.g. the Sydney Olympics and the 2003 Rugby World Cup). He has undertaken studies for various Australian Government departments, all Australian State Governments, private organisations such as the Business Council of Australia, and major private companies.

Professor Madden's primary research activity is in the area of computable general equilibrium modelling. His major achievement is the construction of the multiregional CGE fiscal model, FEDERAL, which has been installed in a number of universities and State Government Treasuries. His applied modelling work is in the areas of fiscal federalism, regional development, major investment projects, tourism, hallmark events, energy, the environment, natural resources, labour markets, transport, industry productivity, and microeconomic reform. His current research projects include regional models focussing on transport and globalisation issues.

1. Qualifications

Doctor of Philosophy	University of Tasmania <u>Thesis title:</u> "FEDERAL: A Two-region Multisectoral Fiscal Model of the Australian Economy". Supervisor: Prof. P.B. Dixon (University of Melbourne)
Bachelor of Economics (Hons)	Australian National University
Bachelor of Arts	University of Tasmania
Diploma of Education	University of Tasmania

2. Employment History

3. 29 April 2006 -	Deputy Director and Professor, Centre of Policy Studies (CoPS), Monash University
July 2004 to April 2006	Deputy Director and Associate Professor, CoPS
April 2002 – June 2004	Associate Professor, CoPS
January 1991 – April 2002	Director, Centre for Regional Economic Analysis (CREA), University of Tasmania.
1992 - 93 (six months)	Scientific Fellow, Research Centre for Economic Policy (OCFEB), Erasmus University, Rotterdam.
1986 – 1990	Deputy Director, CREA, University of Tasmania.
1982 – 1986	Senior Research Fellow, CREA, University of Tasmania.
1981	Research Fellow, CREA, University of Tasmania.
1980	Assistant Deputy Commonwealth Statistician, Australian Bureau of Statistics, Tasmania
Prior to 1980	Assistant Director (Policy Co-ordination and Development Division) and Principal Research Officer (Industry Economics Division), Industries Assistance Commission, Canberra; Computer Programmer, Commonwealth Department of Immigration, and Tariff Board, Canberra.

4. Offices Held in Professional Societies

Current

Councillor-at-Large	Regional Science Association International, 2002-07
Member	Publications Committee, RSAI, 2006-07

Past

ANZRSIAI representative	Council of the Pacific Regional Science Conference Organisation, 2000 – 05
President	Australia & New Zealand Section, RSAI, 1999-00
President	Tasmanian Branch, Economic Society of Australia, 1986-88

5. Academic Services

Editorial Board	<i>Papers in Regional Science</i> , 1999-2009 <i>Australasian Journal of Regional Studies</i> , 1996- [Guest Editor, <i>AJRS</i> , 5(3), 1999]
Book Review Editor	<i>Sustaining Regions</i> , 2001-
Referee	<i>Annals of Regional Science</i> , <i>Australian Economic Review</i> , <i>Australian Journal of Political Science</i> , <i>Australasian Journal of Regional Studies</i> , <i>Economic Record</i> , <i>Growth & Change</i> , <i>Papers in Regional Science</i> , <i>Regional Studies</i>
Assessor	Australian Research Council
Examiner	Doctoral theses (University of Sydney, University of Queensland and Monash University) and Masters thesis (Monash University)

6. University affiliations

Member	Fiscal federalism research team, Stanford Center for International Development, Stanford University, California, 2001-02.
Research Associate	Institute of Applied Economic and Social Research, University of Melbourne, 1987 - 1991.
Visiting Research Fellow	University of Melbourne, 1987.

7. Teaching Services

7.1 Lecturing

ETC 4430 Quantitative Economic Policy, 2004-

Previous courses taught (all at University of Tasmania): Regional Economic Modelling, Applied Economics, Industrial Organisation, International Economics, Economics of Industry, and Business and Government Policy.

6.2 Supervisory:

Research Higher Degrees Co-ordinator (CoPS), 2003-

Current supervision: 2 PhD students (1 main supervisor, 1 associate)

Previous supervisory experience: Honours (University of Tasmania), masters (Monash University, University of Sydney and University of Tasmania), and doctoral students (Monash University, University of Adelaide and University of Tasmania).

7. Competitive grants

Australian Research Council Large Grant: "National Competition Policy and Industry Productivity", JR Madden and PB Dixon, 1997-99.

Australian Research Council Grant SPIRT Grant: "Fiscal Federalism in Australia: A Bargain-theoretic Computable General Equilibrium Approach", JR Madden and N Groenewold, 1999-2000.

FRDC Grant: "An Economic Analysis of the Tasmanian Fishing Industry", Fisheries Research & Development Corporation Project 95/159, 1996.

Three CRC for Sustainable Tourism Grants: 1999 to 2001.

Commonwealth Department of Transport & Regional Services Grant: “Modelling Structural Adjustment Costs in Regional Australia”. 2000-01.

8. Expert-adviser consultancies

International Expert	South African National Treasury Consultation Workshop: Enhancing the Modelling and Analysis of Impacts and Risks of the 2010 FIFA World Cup, Pretoria, 28 Nov – 1 Dec 2005.
Expert Witness	Safety Net Review, Full Bench of Australian Industrial Relations Commission, Melbourne 15 April 2005.
Referee	Productivity Commission study: Modelling the Impacts of Infrastructure Industry Change over the 1990s, 2004-05.
Referee	Infometrics Consulting study, “Review of Import Tariffs beyond 2005”, for New Zealand Ministry of Economic Development, 2002.
Referee	Productivity Commission study: Modelling of the Effects of Removing General Tariffs, 2000.
Referee	Productivity Commission study: Modelling the Regional Impacts of National Competition Policy Reform, 1999.
Chair	Academic Reference Group on Regional Models (Commonwealth Department of Housing and Regional Development), 1995.

9. Committee membership

Faculty of Business and Economics, Research Degrees Committee, Monash University, 2003 –;

Faculty of Business and Economics, Research Committee, Monash University, 2002–;

CREA Board of Management, University of Tasmania, 1981 to 2002;

CRC for Sustainable Tourism, Steering Committee on Tourism Economics 1999-2001;

CRC for Sustainable Tourism, Steering Committee on Regional Tourism 1999-2001;

University of Tasmania’s National and State Development Theme working party, 1995;

University of Tasmania’s Faculty of Commerce (& Law) Research Committee 1998 - 2002;

Faculty of Commerce and Law Executive Committee – University of Tasmania 1994-98;

Degree Board of Commerce (and Law) or equivalent, University of Tasmania, 1982 - 1989 and 1993-2002;

Tasmania 2010 Forum Management Committee, 1993 - 95;

Tasmania 2010 Technical Sub-committee, 1993 - 95;

Research / Community Partnerships Interview Group – University of Tasmania: Quality Review, 27 July 1995;

Member, Advisory Board for the Strategic Research Centre for Environmental Accountability, 1997-99;

Selection Committee for University of Tasmania’s Chair in Economics, 1994.

PUBLICATION LIST

A. Articles

Economic and Fiscal Impacts of Mega Sporting Events: A General Equilibrium Assessment, *Public Finance and Management*, forthcoming, 2006.

Impact of the 2002-03 Drought on Australia, *Journal of Policy Modeling*, 27(3): 285-308, 2005. [with Horridge, JM and Wittwer, G]

The Economic Impact of National Competition Policy on Australian Regions, *European Planning Studies*, 12(1), 2004, 41-56.

Modelling the Regional Economic Consequences of Efficiency Gains in the Utilities Sector, *Economic Analysis & Policy*, 34 (1), 2004, 15-35. [with JAD Giesecke]

Regional Labour Market Adjustment to Competition Policy Reforms: A Dynamic CGE Framework for Assessment, *Australian Journal of Labour Economics*, 6(2), 2003, 409-433. [with JAD Giesecke]

The Effects of Interregional Transfers: A Political-Economy CGE Approach, *Papers in Regional Science*, 82(4): 2003, 535-554 . [with N Groenewold and AJ Hagger]

A Large-Scale Dynamic Multi-regional CGE Model with an Illustrative Application, *Review of Urban & Regional Development Studies*, 15 (1), 2003, 2 - 25 [with JAD Giesecke].

Drought, Regions and the Australian Economy between 2001-02 and 2004-05, *Australian Bulletin of Labour*, 2002, 28 (4), 233 - 249. [with PD Adams, M Horridge and G Wittwer]

The Economic Consequences of the Sydney Olympics - The CREA / Arthur Andersen Study, *Current Issues in Tourism*, 5 (1), 2002, 7 – 21.

Competitive Federalism: A Political-Economy General Equilibrium Approach, *Australasian Journal of Regional Studies*, 6(3), 2000, 451-465 [with N Groenewold and AJ Hagger].

Economic Impacts of Inbound Tourism under Different Assumptions Regarding the Macroeconomy, *Current Issues in Tourism*, 3(4), 2000, 325-363. [with Dwyer, L., Forsyth, P. and Spurr, R.]

The Regional Impact of National Competition Policy. *Regional Policy and Practice*, 9(1), 2000, 3-8.

Editorial, *Australasian Journal of Regional Studies*. 5(3), 1999, 259-261.

An Analysis of the Interdependence of Regional Economies, *Australasian Journal of Regional Studies*. 4(1), 1998, 113-142. [with HM Pant]

Regional Government Economic Policy: Assessing the Policy Instruments, *Australasian Journal of Regional Studies*. 3(1), 1997, 3-18. [with J Giesecke]

The Economics of Vertical Fiscal Imbalance, *Australian Tax Forum*. 10. 1993. 75 - 90.

Simulations of the Economic Effects of Changing the Distribution of General Revenue Assistance among the Australian States, *Economic Record*. 69 (207) 1993, 367-381. [with Dixon, P.B. and Peters, M.]

Measuring Industry Importance: An Australian Application, *The Annals of Regional Science*, vol. 27, 1993, 175-182. [with Groenewold, N. and Hagger, A.J.]

The Measurement of Industry Employment Contribution in an Input-Output Model, *Regional Studies*, vol. 21(3) 1987, 255 - 263. [with Groenewold, N. and Hagger, A.J.]

The Grants Commission's Relativities Proposals: Effects on the State Economies - A Reply, *Australian Economic Papers*. 25. 1985. 218 - 221. [with Challen, D.W. and Hagger, A.J.]

The Grants Commission's Relativities Proposals: Effects on the State Economies, *Australian Economic Papers*, vol. 22, 1983, pp. 302 – 321 [with Challen, D.W. and Hagger, A.J.]

B. Chapters in Books

Australia: Central Fiscal Dominance, Collaborative Federalism and Economic Reform. In T.N. Srinivasan and J.S. Wallack (eds.) *Federalism and Economic Reform: International Perspectives*, Cambridge University Press, New York. 2006.

Regional adjustment to globalization: developing a CGE analytical framework. In RJ Cooper, KP Donaghy and GJD Hewings (eds) *Globalization and Regional Economic Modeling*. Springer-Verlag, Berlin. 2006. forthcoming. [with JA Giesecke]

Advances in Large-Scale Multiregional CGE Modelling: Historical, Forecasting and Scenario Analysis. In A Bayar (ed) *The State-of-the-Art in Regional and Urban Modelling*. Physica-Verlag, Berlin. 2006. forthcoming. [with JA Giesecke]

A Large-Scale Dynamic Multi-regional CGE Model with an Illustrative Application. In Masayuki Doi (ed.) *Computable General Equilibrium Approaches in Urban and Regional Policy Studies*. World Scientific Publishing, Singapore. forthcoming, 2006 [with JAD Giesecke].

C. Selected Conference Papers

A CGE assessment of a university's effects on a regional economy: supply-side versus demand-side effects. 45th European Regional Science Congress, Amsterdam, Refereed Section CD-ROM. 23-27 August, 2005 [with J A Giesecke].

Advances in Large-Scale Multiregional CGE Modelling: Historical, Forecasting and Scenario Analysis. Invited paper presented to conference on "The State-of-the-Art in Regional Modeling", Fundación Centro de Estudios Andaluces and Global Economic Modeling Network, Seville, Spain, October 21 – 23, 2004 [with JA Giesecke]

Competition reforms and collaborative federalism: a dynamic multiregional applied general equilibrium analysis. 42nd European Regional Science Congress CD-ROM (343.pdf), Dortmund. 27-31 August, 2002 [with J A Giesecke].

Australian Fiscal Federalism, Global Integration and Economic Reform. Paper presented to Fiscal Federalism in a Global Environment, Stanford University, California, June 6-7 2002.

Economic impacts of inbound tourism: A non-standard view, in C. Pforr and B. Janeczko (eds.), *CAUTHE 2001: Capitalising on Research*, Refereed proceedings of the Eleventh Tourism and Hospitality Conference, Canberra. 2001, 101-116. [with Dwyer, L., Forsyth, P. and Spurr, R.]

The effects of federal inter-regional transfers with optimizing regional governments. Paper presented to 4th Annual Conference on Global Economic Analysis, Purdue University, Indiana, June 27-29 2001. <<http://www.agecon.purdue.edu/GTAP/>> [with Groenewold, N. and Hagger, AJ]

Competitive Federalism: A political-economy general equilibrium approach. Paper presented to the 40th Congress of the European Regional Science Association, Barcelona, August 2000. CD-ROM. [with Groenewold, N. and Hagger, A.J.]

A Review of Two Decades of Large-scale Multiregional CGE Modelling in Australia. Paper presented to 46th Meeting of the North American Regional Science Association, Montreal, Nov 11-14, 1999. [with Giesecke, J.A.D.]

Estimating the Economic Impact of the Sydney Olympic Games. 38th European Regional Science Association Congress, 28 Aug – 1 Sept, 1998, Vienna, CD-ROM N5:1-26. [with M. Crowe]

FEDERAL: A Two-Region Multisectoral Fiscal Model of the Australian Economy, *Modelling and Control of National and Regional Economies: Proceedings*, Vlacic, L., Nguyen, T. and Cecez-Kecmanovic, D. (eds.), Pergamon, Oxford, 1996, 347-352.

A European eco-tax policy: A multiregional computable general equilibrium analysis. 5th World Congress of the Regional Science Association International: Proceedings VI, CS6.3.2.1-8, Tokyo, May 1996. [with Bovenberg, AL and Heijdra, BJ]

Implementing the Hilmer Reforms: The Effects on the National and State Economies. Presentation to Forum "Making Hilmer Happen". Published in *Business Council Bulletin*, Melbourne, 1995 (March), pp. 14-19.

Regional Economic Impacts of Reducing CO₂ Emissions, in B.L.J. Gordon and M.T. Gordon (ed.), *Regional Modelling and Regional Planning* (Proceedings of Conference at University of Newcastle September 1990), Institute of Industrial Conference Series No. 18, February, 1991, 119 - 129.

The Job Contributions of Tasmanian Industries, in R.E. Glass (ed.), *Papers of the 9th Meeting of the Australasia and New Zealand Regional Science Association* (Melbourne) 1985, 241 – 271. [with Groenewold, N. and Hagger, A.J.]

The Effectiveness of State Government Subsidy Measures: A Preliminary Ranking from ORANITAS, in A.D. Sorensen, et al. (ed.), *Papers of the 8th Meeting of the Australian and New Zealand Regional Science Association* (Armidale), 1984, 134 - 153. [with Challen, D.W. and Hagger, A.J.]

New Technology and Tasmanian Employment, in K. Nichols (ed.), *Papers of the ANZAAS (Tasmanian Division) Symposium on Science, Technology and Employment* (Hobart) 1983, 26 - 37. [with Challen, D.W.]

The Regional Effects of Resource Development: An Application of ORANI-ORES, in C.C. Kissling (ed.), *Papers of the 7th Meeting of the Australia and New Zealand Regional Science Association* (Canberra), 1983, 205 - 219. [with Challen, D.W. and Hagger, A.J.]

D. Recent Working Papers, 2000 -

Using a highly disaggregated multi-regional single-country model to analyse the impacts of the 2002-03 drought on Australia. CoPS/IMPACT Working Paper Number G-141, Centre of Policy Studies, Monash University. October 2003. 20 pages. [with Horridge, JM and Wittwer, G]

Australian Federalism Reforms and Global Integration. Center for Research on Economic Development and Policy Reform Working Paper No. 148, Stanford University. August 2002. 40 pages. <http://scid.stanford.edu/publications/WorkingPaperList.html>

Regional Government Objectives and the Impact of Federal Government Transfers. CREA Working Paper No. RS-18, Centre for Regional Economic Analysis, University of Tasmania. 2001. 25 pages. [with N Groenewold and AJ Hagger]

FEDERAL-PE: A Large-Scale Political Economy CGE Model. CREA Working Paper No. RS-17, Centre for Regional Economic Analysis, University of Tasmania 2001. 39 pages. [with J Giesecke]

Competitive Federalism: A political economy general equilibrium approach. Discussion Paper 01.10, Department of Economics, University of Western Australia, Crawley, 2001. [with N Groenewold and AJ Hagger]

E. Selected Reports (full list since 2002, and some other selected reports)*

Modelling the Economic Impacts of a Relocation of Non-acute Health Services and Aged Accommodation from Selected Regions. CoPS report to CRA International. Melbourne. 2006.

Economic Consequences of a Shift in Consumer Preferences from Private Motor Vehicle to Bus Transport. CoPS report to CRA International. Melbourne. 2006.

The Economic Effects of a Partial Closure of the Pacific National Rail System in Tasmania. CoPS report to Tasmanian Department of Infrastructure, Energy and Resources. Melbourne. 2005.

The Economic Effects of the Tasmanian Freight Equalisation Scheme. CoPS Report to Tasmanian Department of Infrastructure, Energy and Resources. Melbourne. 2005.

The Effects on the Australian Economy of a Sustained Increase in Award Wage Rates: Results from the MONASH Model. CoPS Report to the Department of Employment and Workplace Relations. Melbourne. 2005. [with PB Dixon and MT Rimmer]

The Economic Effects of Road Construction and Maintenance in Queensland: First Report. CoPS Report to the Queensland Department of Main Roads. Melbourne, 2004.

Modelling the Economic Impacts of National Parks in Western NSW Regions. CoPS Report for the NSW Department of Environment and Conservation. Melbourne. 2004.

Modelling the impacts on the Goulburn Economy of DEWR Programs in Shepparton. CoPS Report to the Department of Transport and Regional Services. Melbourne. 2004.

The Economic Effects of the Rugby World Cup. CoPS Report for URS. Melbourne. 2003 (rev. June 2004).

Economic Impacts of the Victorian Government Science, Technology and Innovation Initiative. CoPS Report for Allen Consulting Group. Melbourne. 2003. [with PD Adams]

Assessing Options for Vehicle Emissions and Fuel quality Standards – The Economic Impacts. CoPS Report for the Network Economics Consulting Group. Melbourne. 2003. [with P.B. Dixon]

Economic Impacts of ARC-funded Research. CoPS Report for Allen Consulting Group. Melbourne. 2003. [with P.B. Dixon]

Modelling the Economic Impact of the Reef Project. CoPS Report for Optus Pty Ltd. Melbourne. 2003.

Modelling the Economic Impacts of a Proposed Optus Investment Program in Victoria. CoPS Report for Optus Pty Ltd. Melbourne. 2003.

The Economic Effects of Melbourne Airport. CoPS Report for Sinclair Knight Mertz. 2003.

Economic Consequences of Certain Tourism Scenarios. CoPS Report for Allen Consulting. Melbourne. 2002. [with Mai, Yin H]

Estimating Demand for a Special Event and the Event's Contribution to a Regional Economy. Sustainable Tourism CRC Gold Coast, Qld., July 2002. [with Groenewold, N. and Thapa, P.]
<<http://www.crctourism.com.au/CRCBookshop/>>

Estimating the Value of Tasmanian National Parks to Park Visitors. Sustainable Tourism CRC Gold Coast, Qld., July 2002. [with Groenewold, N. and Thapa, P.]
<<http://www.crctourism.com.au/CRCBookshop/>>

Assessing Regional Labour Market Disruption from Competition Policy Reforms: A Dynamic CGE Approach. CREA Report for the Commonwealth Department of Transport and Regional Services. 2002. [with Giesecke JAD]

Economic Impacts of the Very High Speed Train. CREA Report for Victorian Department of Infrastructure. 2001. [with PJ Thapa]

The Contribution of the Parks and Wildlife Service's Estate to the Tasmanian Economy in 1998/99. CREA Report for Department of Primary Industry Water and Environment. 2000. [with Giesecke J.A.D. and Thapa, P.J.]

United Energy - Estimated Cost Impact of A New Tax System. Deloitte Touche Tohmatsu, Melbourne. 2000. [with Bell, DE, Goldner, D, Thapa, PJ, and Price, R.]

The Economic Consequences of Basslink for the Tasmanian, Victorian and National Economies. CREA Report for Basslink Pty Ltd. 2000. [with Giesecke JA]

Economic Impact Study of the Sydney 2000 Olympic Games. Arthur Andersen (official financial Advisers to Sydney Olympics Committee, SOCOG), Sydney, 1999.

Regional Disaggregation of ABARE's State Level General Equilibrium Model for the South-east Queensland Bio-geographical Zone. CREA Report for Queensland Department of Natural Resources. 1999. [with Giesecke JAD]

FEDERAL (WA): A Multiregional Computable General Equilibrium Dynamic Model focussing on the Western Australian Economy. CREA Report for WA Treasury. 1998. [with Giesecke, J.A.D. and Pant, H.M.]

The Economic Impact of Certain Pay-Equity Scenarios for New South Wales. CREA Report for NSW Treasury, 1998.

The Economic Consequences of the Proposed World Expo 1992. CREA Report for the Queensland Department of Economic Development and Trade. 1997. [with Giesecke JAD]

The Economic Analysis of the Tasmanian Fishing Industry. Fisheries Research & Development Corporation, Project 95/159. 1997. [with Giesecke JAD]

Economic Consequence of the Accommodation Tax. CREA Report for the NSW Treasury. 1997. [with Giesecke JAD and AJ Hagger]

The Impact on the Tasmanian Economy of Implementing the Recommendations of the Burton Committee. CREA Report for the Department of Transport. 1997. [with Hagger AJ and HM Pant]

The Economic Impact on Tasmania of New Resource Developments. Commonwealth & State Government Joint Consultative Committee on Regional Forest Agreement (Tasmania). 1997. [with Pant HM]

An Economic Benefit Analysis of a Domestic Gas Project. ACIL Report for North-West Shelf Gas. 1996. [with Cutbush, G, Giesecke, J and Meaton, M]

Economic Impact of the Sydney Olympic Games. NSW Treasury and CREA Report. 1996. [with Crowe, M]

Review of Australia's Regional Economic Models. CREA Report prepared for the Commonwealth Department of Housing and Regional Development. 1995. [with Dixon, P.B., West, G. and McGovern, M.]

The Impact of Implementing the Hilmer Report on the National and State Economies. CREA Report prepared for the Business Council of Australia, 1995.

Microeconomic Reform in South Australian Public Utilities. CREA Report prepared for the South Australian Centre for Economic Studies. 1994. [with Pant HM]

The Implications for South Australia of Reforms to the Australian Electricity Industry. CREA Report prepared for the South Australian Centre for Economic Studies. 1994. [with Pant HM]

The Economic Impact of the Very Fast Train. Section C of *The Economics of the Very Fast Train*, VFT Joint Venture, Canberra, October 1990. [with Dixon PB]

Simulations of the Economic Effects of Changing the Distribution of General Revenue Assistance. In Commonwealth Grants Commission, *Report on Issues in Fiscal Equalisation*, Volume II, AGPS, Canberra. 1990. pp 229 - 295. [with Dixon, P.B. and Peter, M.W.]

Employment Policy Options: Answers from a Large-Scale Economic Model. *CREA* Report to the Tasmanian Employment Summit, 28 & 29 November 1989, Parliament House, Hobart, 1989.

Macro-Econometric Models for Regional Economic Analysis: A Review. *CREA* Report for Department of Local Government and Administrative Services, Centre for Regional Economic Analysis, University of Tasmania [with Hagger, A.J.] 1985.

** A full list of around 100 commissioned reports available on request.*