

CURRICULUM VITÆ

Robert Ernest MARKS

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Undergraduate Studies:

University of Melbourne, B.E. (Civil), First Class Honours, 1968.

Graduate Studies:

University of Melbourne, M.Eng.Sc., Structural Engineering, 1970,

Thesis title: Optimisation and plastic analysis

University of Cambridge, Research Certificate, Economics, 1971.

Stanford University, M.S., Engineering-Economic Systems, 1972.

Stanford University, Ph.D., Engineering-Economic Systems, 1978,

Thesis title: Non-renewable resources and disequilibrium macrodynamics

Honours and Awards:

1958 Dux (æq.), Junior School, Scotch College, Melbourne.

1960–1963 The Council Scholarship, Scotch College, Melbourne. Matriculated, 1963:

Physics (H1), Calculus & Applied Maths. (H1), Chemistry (H2), Pure

Maths. (H2), English Literature (P), and English Expression (P).

1964–1967 Australian Commonwealth Scholarship.

1965–1966 Major Residence Scholarship, Ormond College, University of Melbourne.

1968–1969 Australian Commonwealth Postgraduate Award.

1969–1973 Australian Commonwealth Scientific and Industrial Research

Organisation Overseas Studentship,

Subject area: Engineering systems.

1972 Stanford University Representative, Tenth Annual UN Graduate Study
Programme, Geneva.

1974–1975 Resources for the Future, Inc., Fellowship.

1978 Doctoral dissertation published as a monograph in both the *Garland Series
of Outstanding Economics Dissertations* and the *Garland Series of
Outstanding Energy Dissertations*.

1987 Winner of the Second Massachusetts Institute of Technology Competitive

- Strategy Tournament. (A tournament of competing algorithms playing three-person pricing games.)
- 1993– Included in *Profiles in Business and Management: An International Directory of Scholars and Their Research*, (Boston: Harvard Business School Publishing, 1993–).
- 2005 Presented the Fourth Herbert Simon Seminar Series, on Agent-Based Computational Economics and Market Design, at the Artificial Intelligence Economics Research Center, Department of Economics, National Chengchi University, Taipei, and the the National Kaohsiung University of Applied Sciences, Taiwan, October 23–28.

Grants Received:

- 2010 Australia India Institute Grant: “Supporting Information Exchange across Organisations for e-Business,” (under Pradeep Ray, Director, Asia-Pacific Ubiquitous Healthcare Research Centre (APuHC), UNSW). (\$12,500 over one year).
- 2009 Land & Water Australia Innovation Call Project: “Transaction Metrics for Purchasing Environmental Services,” (under Paul Martin, Director, The Australian Centre for Agriculture and Law, University of New England), (\$90,000 over one year)
- 2008 ARC Discovery Grant: “Modelling the Development and Evolution of Business Relations and Networks as Complex Adaptive Systems using Agent-Based Models,” (with I.F. Wilkinson and L. Young) (\$120,000 over three years)
- 2005 INSEAD: “Selection, development and production of a platform for multi-agent modeling research” (with D. Midgley) (€10,000)
- 2005 Australian Research Institute in Education for Sustainability: “Education About and For Sustainability in Australian Business Schools,” (with M. Chandrashekar) (\$35,000 over two years)
- 2003 ARC Discovery (Large) Grant: “Understanding participant behaviour in wholesale electricity markets,” (with E.J. Anderson, H.R. Outhred, and I.F. MacGill) (\$253,000 over three years)
- 2002 Carbon Dioxide Cooperative Research Centre (co-investigator). To investigate capturing and sequestering anthropogenic CO₂ from the atmosphere — technical and financial feasibility (\$21.8 million over 7 years, shared)
- 2000 AGSM Small Grant (Chief Investigator): “Modelling rivalry in mature, repeated oligopolies: players learn rules of thumb in perceiving responding and signalling.” (\$15,000)
- 1999 Australian Research Council Small Grant (Chief Investigator): “Strategic rivalry in mature oligopolies: endogenising and estimating players’ perceptions, responses, and actions.” (\$19,900)
- 1998 Australian Research Council Small Grant (Chief Investigator with David Midgley): “Benchmarking learned responses and rules of thumb in mature oligopolies.” (\$18,000)

- 1997 AGSM Special Research Grant (Principal Investigator, with David Midgley): “Benchmarking learned responses and rules of thumb in mature oligopolies.” (\$9,000)
- 1995 Australian Research Council Large Grant (Principal Investigator, with David Midgley): “Strategic behaviour and learning: estimation and simulation of pricing and promotion in iterated oligopolies.” (\$75,000) (The ARC Advisory Panel Score: 90–94%)
- 1995 Australian Vice Chancellors’ Committee Electronic Publishing Working Group (with John Roberts, Chris Sauer, Pam Taylor, et al.): “Technical trial and study of consumer adoption patterns.” (\$76,140)
- 1994 Worksafe Australia Research Grant (with Jean Cross, Principal Investigator): “The costs and benefits of safety programs.” (\$102,000)
- 1992 Australian Research Council Small Grant (Principal Investigator, with David Midgley): “Strategic behaviour and the evolution of economic institutions.” (\$18,000)
- 1989 AGSM Special Research Grant: “AGSM Double Auction Computer Tournament.” (\$500)

Academic Experience:

The University of Melbourne, Melbourne Business School:
2011–2013 Adjunct Professorial Fellow

The University of New South Wales, School of Economics:
2010– Professor Emeritus
2010– Visiting Professor
2006–2010 Full Professor

The University of New South Wales, Australian Graduate School of Management:
(From 1999 through 2006 the AGSM was a joint venture of UNSW and the University of Sydney.)
2001–2006 Full Professor
1995–2001 Associate Professor
1981–1994 Senior Lecturer,
1977–1981 Foundation Lecturer.

The National Kaohsiung University of Applied Sciences, Taiwan:
2005 Visiting Professor, Economics Department.

The National Chengchi University, Taipei:
2005 Visiting Professor, Economics Department.

INSEAD, Fontainebleau:
2005 Visiting Professor, Marketing Group.

The Santa Fe Institute:
1993 Visiting Researcher, Economics Group.

Stanford University:

- 2009 Visiting Scholar, Precourt Energy Efficiency Center,
- 1992–1993 Visiting Scholar, Graduate School of Business,
- 1980–1981 Visiting Assistant Professor, Engineering-Economic Systems,
- 1976–1977 Lecturer, Engineering-Economic Systems,
- 1973–1974 Teaching Assistant, Engineering-Economic Systems.

The University of California at Berkeley:

- 1984 Visiting Scholar, Energy and Resources Group.

The National Bureau of Economic Research – West, (Stanford):

- 1975–1977 Research Assistant.

The Massachusetts Institute of Technology:

- 1984 Visiting Scholar, Center for Energy Policy Research.
- 1969–1970 Research Assistant, Urban Systems Laboratory.

The Commonwealth Scientific and Industrial Research Organisation:

- 1969 Research Officer, Division of Building Research.

The University of Melbourne:

- 1969 Tutor, Mathematics, Ormond College,
- 1968–1969 Laboratory Demonstrator, Structural Engineering.

Papers and Reviews in Refereed Journals

- [1] Marks R.E. (2012) “Analysis and Synthesis: Multi-Agent Systems in the Social Sciences,” *The Knowledge Engineering Review*, **27**(1), forthcoming.
<http://www.agsm.edu.au/bobm/KER/Edited/1-marks-rev1005.pdf>
- [2] Lawrance A.B. and Marks R.E. (2008) “Firm Size Distributions in an Industry with Constrained Resources,” *Applied Economics*, **40**(12): 1595–1607, June.
First published on: 27 November 2007 at
<http://www.informaworld.com/smpp/content~content=a787473480~db=all~order=author>
<http://dx.doi.org/10.1080/00036840600843988>
- [3] Marks R.E. (2007), “Validating simulation models: a general framework and four applied examples,” *Computational Economics*, **30**(3): 265–290, October.
(invited)
<http://www.springerlink.com/content/13111153q6278403?p=470f38ced07044e4b7afb2c5e5f400a9&pi=11>
<http://www.agsm.edu.au/bobm/papers/s1.pdf>
- [4] Midgley D.F., Marks R.E., and Kunchamwar D. (2007) “The Building and Assurance of Agent-Based Models: An Example and Challenge to the Field,” *Journal of Business Research*, Special Issue: Complexities in Markets, **60**: 884–893.
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V7S-4N6NHJ4-3&_user=37161&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000004218&_version=1&_urlVersion=
- [5] Marks R.E. (2004) “Avoiding front-runner’s bias,” *Australian Journal of Management*, **29**(1): 35–38.

- [6] Marks R.E. (2002) "Direct and derived policies: illicit drug use and greenhouse gas emissions in Australia," *Journal of Comparative Policy Analysis: Research and Practice*, 4(1): 51–74, March.
- [7] Kong X., Marks R.E., and Wan G.H. (1999) "Technical efficiency, technological change and total factor productivity growth in Chinese state-owned enterprises during the early 1990s," *The Asian Economic Journal*, 13(3): 267–281, September.
- [8] Kong, X., Marks, R.E. and Wan G.H.(1999), "Guo you qi yue quan yao su sheng chan li ji qi jue ding ying su: 1990–1994 [Total factor productivity and its determinants of Chinese state-owned enterprises: 1990–1994]," *Jingji Yanjiu* [*Economic Research Journal*], July (No. 7), pp. 40–48. [In Chinese] *Economic Research* — known as *Ching Chi Yen Chiu* using the Giles-Wade system of transliteration — is published by the Institute of Economics, Chinese Academy of Social Sciences in Beijing. It is the leading economics journal in China.
- [9] Marks, R.E. (1999) Review of *Neural Networks for Economic and Financial Modelling*, by Andrea Beltratti, Sergio Margarita and Pietro Terna, (London: International Thomson Computer Press), 1996, *Journal of Artificial Societies and Social Simulation*, 2(2): March.
<<http://jasss.soc.surrey.ac.uk/2/2/review3.html>>
- [10] Marks, R.E., Midgley, D.F., Cooper, L.G. and Shiraz, G.M. (1999), "The complexity of competitive marketing strategies," *Complexity International*, 6, 1999.
<<http://life.csu.edu.au/complex/ci/vol6>>
- [11] Marks, R.E. (1998) "Evolved perception and behaviour in oligopolies," *Journal of Economic Dynamics and Control*, 22(8–9): 1209–1233, July.
- [12] Midgley, D.F., Marks, R.E., and Cooper, L.G. (1997) "Breeding competitive strategies," *Management Science*, 43(3): 257–275, March.
- [13] Marks, R.E. (1994) "Cannabis laws: an analysis of costs," *Drug and Alcohol Review*, 13(3): 341–346.
- [14] Marks, R.E. (1993) "Modelling heterogeneous inputs," *Economics Letters*, 42(2–3): 167–171.
- [15] Marks, R.E. and Swan, P.L. (1993) "Exhaustibility and the reserves/production ratio," *Economics Letters*, 42(1): 117–119.
- [16] Marks, R.E. (1993) Review of *Risk, Organizations, and Society. Studies in Risk and Uncertainty*, ed. by Martin Shubik. (Dordrecht: Kluwer Academic Publishers, 1991), in *Economic Record*, 69(204): 82–83.
- [17] Marks, R.E. (1992) "The costs of Australian drug policy," *Journal of Drug Issues*, 22(3): 535–547.

- [18] Marks, R.E. (1992) "Breeding hybrid strategies: optimal behaviour for oligopolists," *Journal of Evolutionary Economics*, **2**: 17–38.
- [19] Marks, R.E. (1991) "What price prohibition? An estimate of the costs of Australian drug policy," *Australian Journal of Management*, **16**(2): 187–212, (December). (Extract reprinted in Peter Mitchelson & Andrew Mann, *Economics for Business*, Melbourne: Thomas Nelson, 1995.)
- [20] Marks, R.E. (1991) "Reducing carbon dioxide emissions from Australian energy use," *The Science of the Total Environment*, **108**(1–2): 111–121, (October).
- [21] Marks, R.E., P.L. Swan, P. McLennan, R. Schodde, P.B. Dixon, and D.T. Johnson, (1991) "The cost of Australian carbon dioxide abatement," *The Energy Journal*, **12**(2), 135–152, (April), plus a Corrigendum, *The Energy Journal*, **12**(4), 149–150.
- [22] Marks, R.E. (1990) "Prohibition or regulation: an economist's view of Australian heroin policy," *Australian and New Zealand Journal of Criminology*, **23**(2): 65–87, (June). This paper earned royalties of \$1,769.25, after 2,921 copies were made of it (May, 2008).
- [23] Marks, R.E. (1990) "A freer market for heroin in Australia: alternatives to subsidizing organized crime," *Journal of Drug Issues*, **20**(1): 131–176, (Winter).
- [24] Marks, R.E. (1989) "Towards 2000: Australian energy policy and conservation," *Energy Exploration & Exploitation*, **7**(1): 37–50.
- [25] Marks, R.E. (1987) Review of *Money, Accumulation and Crisis*, by D. K. Foley, (Chur, Switzerland: Harwood Academic Publishers, 1986), in *Economic Record*, **63**: 366–368, December, 1987.
- [26] Marks, R.E. (1987) "On redesigning an academic journal," *Australian Journal of Management*, **12**(2): 149–158, (December).
- [27] Marks, R.E. (1986) "Energy issues and policies in Australia," *Annual Review of Energy and the Environment*, **11**: 47–75.
<http://arjournals.annualreviews.org/doi/abs/10.1146/annurev.eg.11.110186.000403>
- [28] Marks, R.E., P. Watt, and P. Yetton (1981) "GMAT scores and performance: selecting students into a graduate management school," *Australian Journal of Management*, **6**(2): 81–102, (December).
- [29] Marks, R.E. (1980) "The value of 'almost' perfect weather information to the Australian tertiary sector," *Australian Journal of Management*, **5**(1&2): 67–86, (October).
- [30] Marks, R.E. (1974) "The heroin problem: policy alternatives in dealing with heroin use," *Journal of Drug Issues*, **4**(1): 69–91, (Winter).

Submissions

- [31] 2008 Marks R.E., “The satisficer’s curse,”
<http://www.agsm.edu.au/bobm/papers/satisficers.pdf>
- [32] 2007 Marks R.E. and Midgley D.F., “Using evolutionary computing to explore social phenomena: modeling the interactions between consumers, retailers and brands,”
http://www.agsm.edu.au/bobm/papers/IEEE_Evolutionary_v19.pdf
- [33] 2008 Lawrance A.B., and Marks R.E., “Survival of firms and plants in a supply-constrained industry,” submitted to the *Economic Record*.
http://www.agsm.edu.au/bobm/papers/A_Applied_Economics_submission_Nov_2006.pdf
- [34] 2008 Young O, and Marks R.E., “Mergers across Borders: Analysing the Internationalisation of Financial Institutions,” submitted to *Management International Review*.
<http://www.agsm.edu.au/bobm/papers/JIBSsub1.pdf>

Books — both authored and edited

- [35] Barnett W.A., Chiarella C., Keen S., Marks R.E., and Schnabl H., (editors), (2000), *Commerce, Complexity and Evolution: Topics in Economics, Finance, Marketing and Management: Proceedings of the Twelfth International Symposium in Economic Theory and Econometrics*, ed. by W.A. Barnett, Cambridge: Cambridge University Press, xxvii + 394 p. ISBN 0-521-620309
Reviewed by James B. Wiley in *The Journal of Artificial Societies and Social Simulation*, 6(2), 2003, at
<http://jasss.soc.surrey.ac.uk/6/2/reviews/wiley.html>
- [36] R. Standish, B. Henry, S. Watt, R. Marks, R. Stocker, D. Green, S. Keen, and T. Bossomaier (editors), (1998), *Complex Systems '98: Complexity Between the Ecos: From Ecology to Economics*, proceedings of the Fourth Conference on Complex Systems, UNSW, November–December 1998, Sydney: Conference Committee, vi + 393 p. ISBN 0 7334 0537 1
- [37] Keen, S., Chiarella, C., Marks, R.E., and Schnabl, H., (editors), (1996), *Commerce, Complexity and Evolution Program and Papers*, Sydney: Conference Organising Committee. ISBN 0-646-27524-0
- [38] Marks, R.E. and P.L. Swan (1988) (editors), *Is the Australian Labour Market Ripe for Deregulation?* the Malcolm Fisher Festschrift, published as a special edition of the *Australian Journal of Management*, 13(2): 137–274, (December). ISSN: 0312-8962
- [39] Marks, R.E. (1979) *Non-Renewable Resources and Disequilibrium Macrodynamics*, New York: Garland Publishing, xii, 335 p. ISBN: 0-8240-4053-8 [My 1978 Stanford doctoral dissertation.]

Chapters in Books

- [40] Marks R.E. (2012) “Monte Carlo,” in *The Palgrave Encyclopædia of Strategic Management*, edited by David Teece and Mie Augier, London: Palgrave.
<http://www.agsm.edu.au/bobm/papers/MonteCarloPESM-longer.pdf>
- [41] Wilkinson, I.F., Held, F., Marks, R.E., & Young, L. (2012). Developing agent-based models of business relations and networks. In R. Stocker & T. Bossomaier (eds.), *Networks in Society: Links and Language*. Singapore: Pan-Stanford Publishing, Chapter 5. (forthcoming). ISBN: 9789814316286
- [42] Young O., and Marks R.E., (2007) “Four pillars debate needs refining,” *Australian Financial Review*, August 22, 2005, p. 23. Reprinted in: *Financial Institutions Management*, (2nd Australian edition) by Helen Lange, Anthony Saunders, Dianne Thomson, John A. Anderson, McGraw-Hill, 2007. ISBN 0074717499
- [43] Marks R.E., Midgley D.F., Cooper L.G. (2006), “Co-evolving better strategies in oligopolistic price wars,” in *Handbook of Research on Nature-Inspired Computing for Economy and Management*, edited by Jean-Philippe Rennard, (Hershey, PA: Idea Group Inc.), pp. 806–821.
Reviewed at <http://jasss.soc.surrey.ac.uk/11/1/reviews/taymaz.html>
- [44] Marks R.E. (2006), “Market design using agent-based models,” Chapter 27, in the *Handbook of Computational Economics, Volume 2: Agent-Based Computational Economics*, edited by Leigh Tesfatsion and Kenneth L. Judd, in the series *Handbooks in Economics*, (general editors K. Arrow and M. D. Intriligator), (Amsterdam: Elsevier Science), pp. 1339–1380. (*invited*)
- [45] Drake A.E. and Marks R.E. (2002) “Genetic algorithms in economics and finance: forecasting stock market prices and foreign exchange — a review,” *Genetic Algorithms and Genetic Programming in Computational Finance*, ed. by Shu-Heng Chen, (Boston: Kluwer), pp. 29–54. (*invited*)
- [46] Marks R.E. (2002) “Playing games with Genetic Algorithms,” *Evolutionary Computation in Economics and Finance*, ed. by Shu-Heng Chen, Studies in Fuzziness and Soft Computing. Vol. 100, ed. by J. Kacprzyk, (Heidelberg, New York: Physica-Verlag), pp. 31–44. (*invited*)
- [47] Kong X., Marks R.E., and Wan G.H. (2000) “Productivity performance of Chinese state-owned enterprises in the early 1990s — a stochastic production frontier and Malmquist Productivity Index analysis,” in Lloyd P.J. and X.-G. Zhang (editors), *China in the Global Economy*, (London: Edward Elgar), pp. 65–85.
- [48] Marks, R.E. (2000) “Evolved perception and the validation of simulation models,” in Barnett W.A., Chiarella C., Keen S., Marks R.E., and Schnabl H., (editors), *Commerce, Complexity and Evolution: Topics in Economics, Finance, Marketing and Management: Proceedings of the Twelfth International Symposium in Economic Theory and Econometrics*, (Cambridge: Cambridge University Press), pp. 335–350.

- [49] Marks R.E. (2000) "Costs of change," in Russell Fox, *Justice in the Twenty-First Century*, (London: Cavendish Publishing), pp. 227–235. (invited)
- [50] Marks, R.E. (1999) "The triumph of the firm," *New Directions in Corporate Strategy*, ed. by G. Twite and M. O’Keeffe, (Sydney: Allen & Unwin), pp. 39–46. (invited)
- [51] Marks R.E., and Schnabl H. (1999) "Genetic Algorithms and Neural Networks: a comparison based on the Repeated Prisoner’s Dilemma," Thomas Brenner (ed.), *Computational Techniques for Modelling Learning in Economics*, in the series *Advances in Computational Economics* 11, (Dordrecht: Kluwer Academic Publishers), pp. 197–219. (invited)
Reviewed by Edmund Chattoe in *The Journal of Evolutionary Economics*, 10(5): 585–591, 2000, and in *The Journal of Artificial Societies and Social Simulation*, 5(1), 2002, at
<http://jasss.soc.surrey.ac.uk/5/1/reviews/chattoe.html>.
- [52] Marks R.E., Midgley D.F., and Cooper L.G. (1995) "Adaptive behavior in an oligopoly," *Evolutionary Algorithms in Management Applications*, ed. by J. Biethahn and V. Nissen, (Berlin: Springer-Verlag), pp.225–239.
- [53] Marks, R.E. (1992) "Costs of the prohibitions," in *Drugs Policy — Fact, Fiction and the Future*, ed. by Russell Fox and Ian R. Mathews (Sydney: The Federation Press), pp.118–133. (invited)
- [54] Marks, R.E. (1992) "Repeated games and finite automata," in *Recent Developments in Game Theory*, ed. by J. Creedy, J. Eichberger, and J. Borland (London: Edward Elgar), pp.43–64. (invited)

Refereed Published Conference Papers

- [55] Marks R.E. (2010), "Comparing Two Sets of Time-Series: The State Similarity Measure," In *2010 Joint Statistical Meetings Proceedings — Statistics: A Key to Innovation in a Data-centric World*, Statistical Computing Section. Alexandria, VA: American Statistical Association, pp. 539–551. (The Joint Statistical Meetings are held under the ægis of the American Statistical Association, the International Biometric Society (Eastern North American Region, Western North American Region), the Institute of Mathematical Statistics, the Statistical Society of Canada, the International Chinese Statistical Association, and the International Indian Statistical Association.) ISBN 978-0-9791747-9-7 (invited)
<http://www.agsm.edu.au/bobm/papers/asap.pdf>
- [56] Wilkinson, I. F., R. Marks, L. Young, (2010), "Toward agent-based models of the development and evolution of business relations and networks," in Ali Minai, Dan Braha, Yaneer Bar-Yam (eds.), *Unifying Themes in Complex Systems: Proceedings of the Sixth International Conference on Complex Systems*, Volume 6, part of the New England Complex Systems Institute Series on Complexity, (New York: Springer), Chapter 26, pp. 414–421.
<http://www.springerlink.com/content/m84g758323004851/>

- [57] Marks R.E. (2006), "Validation and functional complexity," in T. Terano, S. Takahashi, D. Sallach, and J. Rouchier (eds.), *The First World Congress on Social Simulation, August 21–25, 2006, Kyoto University, Kyoto, Japan, Proceedings Volume 2*, pp. 393–401. (A joint congress under the ægis of the Pacific Asian Association for Agent-based Approach in Social Systems Sciences, the North American Association for Computational Social and Organizational Science, and the European Social Simulation Association.)
- [58] Kong X., Marks R.E., and Wan G.H. (1999), "Efficiency and its determinants in Chinese firms in the early 1990s — a stochastic production frontier function analysis," in Zhou Z.-Y., Chudleigh J., Wan G.-H., and MacAuley G. (editors), *The Chinese Economy Towards the 21st Century*, Proceedings of the Tenth Annual Conference of the Association of Australian Chinese Economic Studies, Orange, 12 July 1998, (Orange, N.S.W.: Orange Agricultural College and Department of Agricultural Economics, University of Sydney), pp. 185–214. ISBN: 1864870176
- [59] Marks, R.E., Midgley, D.F., Cooper, L.G. and Shiraz, G.M. (1999), "Coevolution with the Genetic Algorithm: application to repeated differentiated oligopolies," In Banzhaf, W., Daida, J., Eiben, A.E., Garzon, M.H., Honavar, V., Jakiela, M., & Smith, R.E. (eds.). *GECCO-99: Proceedings of the Genetic and Evolutionary Computation Conference*, July 13–17, 1999, Orlando, Florida USA. (San Francisco, CA: Morgan Kaufmann), pp. 1609–1615.
- [60] Marks, R.E., Midgley, D.F., Cooper, L.G. and Shiraz, G.M. (1998), "The complexity of competitive marketing strategies," in *Complex Systems '98: Complexity Between the Ecos: From Ecology to Economics*, Proceedings of the Fourth Conference on Complex Systems, UNSW, November–December 1998, edited by R. Standish, B. Henry, S. Watt, R. Marks, R. Stocker, D. Green, S. Keen, and T. Bossomaier, (Sydney: Conference Committee), 1998, pp.336–345.
- [61] Shiraz, G.M., Marks, R.E., Midgley, D.F., and Cooper, L.G. (1998), "Using Genetic Algorithms to breed competitive strategies in marketing," in the Proceedings of the 1998 IEEE International Conference on Systems, Man, and Cybernetics, La Jolla, California, USA, October 11–14, 1998: *Intelligent Systems for Humans in a Cyberworld*. (New York: IEEE), pp. 2367–2372.
- [62] Marks, R.E. (1996) "Evolved perception and behaviour in oligopolies," in *Commerce, Complexity and Evolution Program and Papers*, Volume Two, Tuesday February 13th, ed. by S. Keen, C. Chiarella, R. Marks, and H. Schnabl, (Sydney: Conference Organising Committee). (AGSM Working Paper 96-032, September 1996)
- [63] Marks, R.E. (1992) "Finding the middle ground: the use of market incentives to protect the environment," in *Enviromine Australia Proceedings: Conference at Taronga Zoo, March 13–22, 1992*, Volume 3, Abstracts and Supplementary Papers, ed. by J.E. Epps, D.P. Woodside, and D.R. O'Neill, (Sydney: The Australasian Institute of Mining and Metallurgy; The Zoological Parks Board of New South Wales).

- [64] Marks, R.E. (1992) "Costs of illegal drug use," in *The Consequences of Alcohol and Drug Use: Proceedings of the Fifth National Drug and Alcohol Research Centre Annual Symposium, Melbourne, March, 1992*, held as part of the Third International Conference on the Reduction of Drug-Related Harm, ed. by W. Swift, (Sydney: National Drug and Alcohol Research Centre, Monograph No. 15), pp. 18–31.
- [65] Marks, R.E. (1991) "Australian energy policy and conservation," in *Energy Systems, Management and Economics: Selected Papers from the IFAC/IFORS/IAEE Symposium*, cosponsored by the International Federation of Automatic Control, the International Federation of Operational Research Societies, and the International Association for Energy Economics, Tokyo, 25–27 October 1989, IFAC Symposia Series, 1990. No. 14, ed. by Y. Nishikawa, Y. Kaya, and K. Yamaji, (Oxford: Pergamon Press for the IFAC), pp. 409–415.
- [66] Marks, R.E. and P.L. Swan (1990) "Abatement: global action, Australian road transport, and macroeconomic costs," in *Greenhouse and Energy*, ed. by D.J. Swaine, (Melbourne: CSIRO Australia), pp. 107–118.
- [67] Marks, R.E. (1990) "Relaxing the prohibition: effects on supply and demand," in *Controlled Availability: Wisdom or Disaster?* ed. by J. Hando and J. Carless, (Sydney: National Drug and Alcohol Research Centre, Monograph No. 10), pp. 11–16.
- [68] Marks, R.E. (1989) "Breeding optimal strategies: optimal behavior for oligopolists," *Proceedings of the Third International Conference on Genetic Algorithms*, George Mason University, June 4–7, 1989, ed. by J. David Schaffer, (San Mateo, Calif.: Morgan Kaufmann Publishers), pp.198–207.
- [69] Marks, R.E. and P.L. Swan (1987) "Property rights and implicit discount rates in the world oil market," in: *The Changing World Energy Economy: Papers and Proceedings of the Eighth Annual North American Conference, November 10–21, 1986*, edited by D.O. Wood, (Cambridge, Mass.: International Association for Energy Economics), pp.525–530.
- [70] Marks, R.E. (1980) "The value of perfect weather information to the Australian tertiary sector," in: *Proceedings of the Conference on Value of Meteorological Services, Melbourne, 21–23 February 1979*, (Melbourne: Royal Meteorological Society/Economic Society of Australia and New Zealand/Australian Agricultural Economics Society), pp.129–147.

Other Published Work

- [71] Marks R.E. and N.J. Vriend (2012) "The Special Issues, Part 1: Overview," *The Knowledge Engineering Review*, 27(1), forthcoming.
- [72] Marks R.E. and N.J. Vriend (2012) "The Special Issues, Part 2: Overview," *The Knowledge Engineering Review*, 27, forthcoming.

- [73] Marks R.E. (2011), "Pavlova," *ChemoSense*, 13(4), September, p.8.
<http://www.chemosense.info/>
- [74] Marks R.E. (2011), lecture materials from the course, Mngt 0204
Macroeconomics for Managers, republished in the *Mining: Partnerships for
Development Toolkit*, published by the International Council on Mining and
Metals, London.
- [75] Marks R.E. (2010) "A final farewell," *Australian Journal of Management*, 35(2):
115-117. (editorial)
- [76] Marks R.E. (2010) "Welcome to SAGE Publications," *Australian Journal of
Management*, 35(1): 3-5. (editorial)
- [77] Marks R.E. (2009), "Pilbara miners best judges of access," *Australian Financial
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- [191] 2005 “Agent-Based Computational Economics and Market Design,” the Fourth Herbert Simon Lecture Series (five three-hour lectures) at the National Chengchi University, Taipei, and the National Kaohsiung University of Applied Sciences, October 23–28. (*invited*)
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- [204] 1999 “Criteria for comparative policy analysis in research and practice,” presented as a Roundtable Participant at the Twenty-First Annual Association for Public Policy Analysis and Management Research Conference, Washington DC, (November). (*invited*)
- [205] 1999 “Enterprise institution reform and productivity performance in Chinese State-Owned Enterprises (1990–1994),” (with Xiang Kong), presented at the 1999 Taipei International Conference on Efficiency and Productivity Growth, July 30–31, 1999, The Institute of Economics, Academia Sinica (IEAS), Taipei, Taiwan.
- [206] 1999 “Refining the breeding of hybrid strategies: repeated games in the coffee market,” presented at the Computational Modeling Workshop, U.C.L.A. Anderson School & Division of Social Science, Los Angeles, (March). (*invited*)
- [207] 1998 “Validation of simulation models,” accepted for presentation at the workshop on ACE (Agent-based Computational Economics): Experimental Design and Data Analysis, for the International Federation of Automatic Control/Society for Computational Economics/International Federation for Information Processing/International Federation of Operational Research Societies Symposium on Computation in Economics, Finance, and Engineering: Economic Systems, Cambridge, UK, (June 29 – July 1) (*invited*)
- [208] 1998 “Genetic algorithms and neural networks: a comparison based on the repeated Prisoner’s Dilemma,” (with Hermann Schnabl), presented at the workshop, Agent-Based and Population-Based Modelling of Learning in Economics, Max Planck Institute for Research into Economic Systems, Jena, (March 2–3). (*invited*)
- [209] 1997 “Electronic publishing: a practitioner’s view,” presented at the UNSW Copyright Forum, Sydney, (July 10) (*invited*)
<<http://www.agsm.unsw.edu.au/bobm/copyright.html>>
- [210] 1995 “How boundedly rational are brand managers?” (with David Midgley and Lee Cooper), presented at the the Santa Fe Institute’s Workshop on Artificial Economies (May) (*invited*), and the 1995 INFORM Marketing Science Conference, University of New South Wales, (4 July).

- [211] 1993 “Doing economics with computers,” presented at the Engineering-Economic Systems Silver Symposium Series, Stanford University, (March 25). (*invited*)
- [212] 1993 “Coffee price wars and the Genetic Algorithm: estimating strategies in a real-world oligopoly,” (with Lee Cooper and David Midgley), presented in the Santa Fe Institute Colloquium Series, (February 26). (*invited*)
- [213] 1992 “Benchmarking oligopolistic behavior: repeated games in the coffee market,” presented at the Engineering-Economic Systems Department, Stanford University (November 10). (*invited*)
- [214] 1992 “Costs of illegal drug use,” at The National Drug and Alcohol Research Centre Annual Symposium on “Measuring the Economic Consequences of Drug and Alcohol Use: Implications for Policy,” at *The Third International Conference on the Reduction of Drug-Related Harm*, Melbourne (23–26 March) (*invited*).
- [215] 1991 “The costs of drug law enforcement,” presented at the Papua New Guinea Foundation for Law, Order, and Justice’s international conference on *Drug-Related Crime in Papua New Guinea*, Lae (May 13–17) (Invited by Mr Ken Egan, Director of the Foundation for Law, Order, and Justice, at the suggestion of Professor Duncan Chappell, director of the Australian Institute of Criminology, Canberra). (*invited*)
- [216] 1991 “Finding the middle ground: markets and conservation,” presented at the Department of Management, University of Western Australia, Perth (17 April) (*invited*).
- [217] 1991 “Air-polluting behaviour in Australia: instruments for change,” presented at *Market-Based Environmental Policy*, a conference hosted by the School of Economics, University of New South Wales, Sydney (20 March) (*invited*)
- [218] 1990 “Economic commentary,” presented at An Intensive One-Day Briefing for Senior Decision-Makers on *Environmental Strategy: New Economic Policies and Regulatory Schemes*, Sydney and Melbourne (15, 29 October), (Sydney: Calcutt Watson and Associates Pty. Ltd., 1990) (*invited*)
- [219] 1990 “Carbon taxes and road transport,” presented at the Energy Research Development and Information Centre’s seminar on *Vehicles: Energy and Environmental Impacts*, co-sponsored by the NSW Department of Minerals and Energy and the AGL Gas Companies, University of New South Wales (10 October) (*invited*).
- [220] 1990 “Repeated games and finite automata,” presented at the Two-Day Seminar on Recent Developments on Game Theory, University of Melbourne (7–8 June) (*invited*).
- [221] 1990 “Relaxing the prohibition of heroin: effects on supply and demand,” presented at the Fifth International Conference on Treatment of Addictive Behaviours, Sydney (4–9 February) (*invited*).

- [222] 1989 “Economics of drug policies,” presented at Drugs, the Law, and Medicine, a summit cosponsored by the Australian Doctors’ Fund and the Australian Medical Association, Sydney (17–18 November) (Invited by Dr Bruce Shepherd, then President of the Australian Medical Association.) (*invited*)
- [223] 1989 “Prohibition or regulation: an economist’s view of Australian heroin policy,” presented at the Fifth Annual Conference of the Australian & New Zealand Society of Criminology, Sydney (July) (*invited*).
- [224] 1974 “Decision-making under uncertainty,” Distinguished Visitor, Sixth Winter Management Seminar, University of Melbourne Business School Association (August 27). (*invited*)

Unpublished Papers, and Other Public Presentations

- [225] 2001 Kong X., Marks R.E., and Wan G.H., “Productive performance of Chinese state-owned enterprises in the early 1990s”, submitted to the *China Economic Review*.
- [226] 1997 “Refining the breeding of hybrid strategies,” (with David Midgley and Lee Cooper), presented at the Third International Conference on Computing in Economics and Finance, Stanford, (June 30–July 2)
- [227] 1996 “Optimal partitioning: evolved perception and behaviour in oligopolies,” presented at the Second International Conference on Computing in Economics and Finance, University of Geneva, (26 June).
- [228] 1994 “Adaptive behaviour in an oligopoly,” (with Lee Cooper and David Midgley), presented at the Australasian Meetings of the Econometric Society, University of New England, July, and the 15th Annual Conference of the Society for Economic Dynamics and Control, under the auspices of the Society for Computational Economics, Nafplion, Greece, June 25, 1993.
- [229] 1993 “Breeding optimal strategies for multiple-period competitive games in mature markets,” (with Lee Cooper and D.F. Midgley), presented at The 1993 T.I.M.S. Marketing Science Conference, Washington University, (13 March).
- [230] 1991 “Costly complexity of strategies in repeated games,” presented at the 1991 Australasian Meetings of the Econometric Society, University of New South Wales, Sydney (10–13 July)
- [231] 1990 “Measures of strategic complexity,” presented at the Sixth World Congress of the Econometric Society, Barcelona (22–28 August).
- [232] 1981 “Macro-economic effects of the import parity pricing of oil,” presented at the Tenth Conference of Economists, Canberra, (August).

REM has presented papers, or acted as official discussant (*), at the following conferences (*i* = invited):

- 1974 The World Affairs Council of Northern California conference on the world economy, Asilomar, Pacific Grove (*i*).*
- 1979 Conference on the Value of Meteorological Services, Melbourne (*i*).
- 1979 Western Economic Association Meetings, Las Vegas.
- 1979 Eighth Conference of Economists, Melbourne.
- 1979 Econometric Society Meetings, Atlanta.
- 1980 American Economic Association Meetings, Denver.*
- 1981 Tenth Conference of Economists, Canberra.
- 1983 Australasian Meetings of the Econometric Society, Canberra.
- 1985 Third Analytical Economists' Workshop, Sydney.*
- 1985 Fourteenth Conference of Economists, Sydney.
- 1985 Institute of Criminology seminar, "Drugs and Crime," Sydney.*
- 1986 Fourth Analytical Economists' Workshop, Canberra.
- 1986 Australasian Meetings of the Econometric Society, Melbourne.
- 1986 Fifteenth Conference of Economists, Melbourne.
- 1986 Eighth Annual North American Conference, International Association for Energy Economics, Cambridge, Mass.
- 1988 Sixth Analytical Economists' Workshop, Sydney.*
- 1988 1988 Australian Economic Congress, Canberra.
- 1988 Australia–Japan Research Centre conference, "Japanese Corporate Organisation and International Adjustment," Canberra (*i*).*
- 1988 American Economic Association Meetings, New York.
- 1989 Seventh Analytical Economics Workshop, Canberra.
- 1989 Third International Conference on Genetic Algorithms and their Applications, Fairfax, Virginia.
- 1989 Fifth Annual Conference, Australian and New Zealand Society of Criminology, Sydney (*i*).
- 1989 First International Symposium on Energy Systems, Management and Economics, Tokyo.
- 1989 A National Two-Day Conference on Sustainable Policies and Making Them Work, Sydney (*i*).
- 1989 The Australian Doctors' Fund Summit on Drugs, the Law and Medicine, Sydney (*i*).
- 1990 The Fifth International Conference on Treatment of Addictive Behaviours, Sydney (*i*).
- 1990 The Two-Day Seminar on Recent Developments in Game Theory, Melbourne (*i*).
- 1990 The Sixth World Congress of the Econometric Society, Barcelona.
- 1990 The Energy Research Development and Information Centre's seminar "Vehicles: Energy and Environmental Impacts," Sydney (*i*).
- 1990 An Intensive One-Day Briefing for Senior Decision-Makers on "Environmental Strategy: New Economic Policies and Regulatory Schemes," Sydney and Melbourne (*i*).
- 1991 Ninth Economic Theory Workshop, Sydney.*

- 1991 Conference on Market-Based Environmental Policy, Sydney (*i*).
- 1991 International Conference on Drug-Related Crime in Papua New Guinea, Lae (*i*).
- 1991 Australasian Meetings of the Econometric Society, Sydney.
- 1992 Tenth Economic Theory Workshop, Sydney.*
- 1992 EnvirominE Australia, Sydney (*i*).
- 1992 The Third International Conference on the Reduction of Drug-Related Harm, Melbourne (*i*).
- 1993 The 1993 T.I.M.S. Marketing Science Conference, St. Louis.
- 1993 15th Annual Conference of the Society for Economic Dynamics and Control, Naflion, Greece
- 1993 Conference on Drug Law Reform, “Cannabis and Narcotics: Problems and Prospects for Decriminalisation,” Sydney (*i*)
- 1994 Australasian Meetings of the Econometric Society, Armadale.
- 1995 Santa Fe Institute Workshop on Artificial Economies, Santa Fe, New Mexico (*i*)
- 1995 The 1995 INFORM Marketing Science Conference, Sydney.
- 1996 The Second International Conference on Computing in Economics and Finance, Geneva. (*i*)
- 1997 The Third International Conference on Computing in Economics and Finance, Stanford.
- 1998 The Workshop on Agent-Based and Population-Based Modelling of Learning in Economics, Max Planck Insitute for Research into Economic Systems, Jena. (*i*)
- 1999 Computational Modeling Workshop, U.C.L.A. Anderson School & Division of Social Science, Los Angeles. (*i*)
- 1999 “Criteria for Comparative Policy Analysis in Research and Practice,” Roundtable Participant at the Twenty-First Annual Association for Public Policy Analysis and Management Research Conference, Washington DC. (*i*)
- 2002 The First Lake Arrowhead Conference on Computational Social Science and Social Complexity: Agent-Based Modeling in the Social Sciences, May 9–12, U.C.L.A. (*i*)
- 2003 The Diamond Industry Strategic Security Seminar, Argyle Diamonds, Perth, July 2. (*i*)
- 2004 Workshop on Agent-Based Modeling, University of Michigan Center for the Study of Complex Systems, Ann Arbor, May. (*i*)
- 2005 Agent-Based Models for Economic Policy Research (ACEPOL05), Zentrum für interdisziplinäre Forschung, Bielefeld University, June 30–July 2. (*i*)
- 2005 The INFORMS Annual Meeting — San Francisco, “Ecologies, Economies and OR”, November 15. (*i*)
- 2005 The London Business School/*Australian Financial Review*/AGSM/ MBS Global Masterclass Forum on Global Challenges and Opportunities for Australia, November 21, Melbourne. (*i*)
- 2005 The New England Complex Systems Institute, Boston (NECSI) One-Week

- Intensive Course: Complex Physical, Biological and Social Systems, held at the AGSM, December 6. (*i*)
- 2006 The First World Congress on Social Simulation, Kyoto University, August 21–25.
- 2007 25th Australasian Economic Theory Workshop, A.N.U., Canberra, February 15–16.
- 2007 The Fourth Lake Arrowhead Conference on Human Complex Systems, April 25–29, U.C.L.A.
- 2007 The Eighth Asia-Pacific Conference on Complex Systems, Gold Coast, Qld., July 2.
- 2007 Agent-Based Modelling in Socio-Economic Systems: Summer School 2007, Centre for Research in Complex Systems, Charles Sturt University, Bathurst, NSW; November 19–30.
- 2008 The 26th Australasian Economic Theory Workshop, Bond University, Gold Coast, Qld, February 10–11.
- 2008 First International Workshop on Market-Based Control of Complex Computational Systems, University of Liverpool, September 1–2.
- 2009 INFORMS Marketing Science Conference, University of Michigan, June 4–6.
- 2009 The 15th International Conference on Computing in Economics and Finance, University of Technology, Sydney, July 15–17.
- 2010 Advances in Agent-Based Computational Economics, ADACE 2010, July 5–7, Center for Interdisciplinary Research (ZiF), Bielefeld University, Germany. (*invited*)
[http://www.uni-bielefeld.de/\(en\)/ZIF/AG/2010/07-05-Dawid.html](http://www.uni-bielefeld.de/(en)/ZIF/AG/2010/07-05-Dawid.html)
- 2010 The Joint Statistical Meetings of the American Statistical Association, Section on Statistics and Marketing, Complex Systems in Marketing, Vancouver Convention Centre, Vancouver, Canada, July 3 – August 5. (*invited*)
- 2010 Conference 2010, Paul Woolley Centre for the Study of Capital Market Dysfunctionality, University of Technology, Sydney, October 28.
- 2011 9th ANZAM Operations, Supply Chain and Services Management Symposium 2011, Deakin Management Centre, Deakin University, Geelong, June 15–17. (*invited*)
<http://www.deakin.edu.au/buslaw/gsb/anzam/>
- 2011 Agent-Based Modeling Workshop, Global Systems Dynamics & Policy, The Sorbonne, Paris, September 8–10.

REM has also presented invited papers at the following institutions and universities:

Arizona State University
Australian National University
Bond University
Charles Sturt University
Deakin University

Decision Focus Inc., Los Altos, California
George Mason University
La Trobe University
Macquarie University
Massachusetts Institute of Technology
The Max Planck Institute, Jena
Monash University
National Chengchi University, Taipei
National Kaohsiung University of Applied Sciences
The Sorbonne, Paris
Stanford University
The Santa Fe Institute
University of Bielefeld
University of Birmingham
University of California at Berkeley
University of California at Los Angeles
University of Cambridge
University of Geneva
University of Kyoto
University of Liverpool
University of Melbourne
University of Michigan
University of New England
University of New South Wales (Law, Applied Mathematics, Science &
Technology Studies, National Drug & Alcohol Research Centre,
Community Medicine, Economics)
University of Rochester
University of Sydney
University of Technology, Sydney
University of Utah
University of Western Australia
University of Wollongong
Washington University

Other Research-Related Activities:

- 1976 Rapporteur, Conference on the Economics of Natural Resources,
 cosponsored by the U.S. National Science Foundation, the National
 Bureau of Economic Research, and the Center for Research in the
 Economics of Energy, Stanford University, (July 23–24)
- 1977– Reviewer, *Australian Journal of Management*
- 1983 Book Reviewer, *Journal of Industrial Relations*
- 1987– Reviewer, *Journal of Environmental Economics and Management*

- 1987– Reviewer, *Economic Record*
- 1989 Ph.D. dissertation examiner, University of Melbourne (Energy policy)
- 1989– Supervisor, Successful Doctoral Candidates:
- Jeffrey James Bateson: *An Economic Analysis of Electricity Supply in New South Wales: Prospects for Competition*, 1989 (co-supervisor).
Since graduation, Dr. Bateson has held positions with the NSW Treasury (chief economist and director of its commercial sector division), County NatWest Corporate Finance, Sydney (associate director), CLP Power Hong Kong Ltd. (G.M., strategy and development), Innogy Holdings plc U.K. (CFO and planning director), Wind Hydrogen Limited, Sydney (executive director).
- Boon Chye Lee: *The Economics of International Debt Renegotiation: The Role of Bargaining and Information*, 1990. Published as a book by Westview Press (Boulder, San Francisco, and Oxford), 1993.
On graduation, Dr. Lee was appointed Lecturer in Economics at the University of Wollongong, where he is now a tenured Senior Lecturer.
- Xiang Kong: *China's Industrial Reform and the Productive Performance of State-Owned Enterprises*, 2000.
Dr. Kong is currently a Research Officer at the Shenzhen Stock Exchange in China.
- Anthony Lawrance: *The Structure and Evolution of the Australian Coal Industry 1960–1999*, 2002.
Dr. Lawrance is currently an honorary Research Associate at the AGSM.
- Owen Young: *Internationalisation of Financial Services Firms*, 2007.
Dr. Young is currently a management consultant overseas.
- Phyllia Restiani, (co-supervisor) 2008–.
- Fabian Held, (co-supervisor) 2009–.
- 1990 Honours dissertation examiner, University of Wollongong (Drug policy)
- 1991– Reviewer, *International Economic Review*
- 1991 Reference Group Member, National Centre for Epidemiology and Population Health's project, "Feasibility Research into the Controlled Availability of Opioids — Stage 1". (*invited*)
- 1991– Referee of applications for funding from the Research into Drug Abuse Grants Program of the National Campaign Against Drug Abuse, Commonwealth Department of Community Services and Health. (*invited*)
- 1992 Keynote speaker on "Costs and Trade-Offs in Environmental Management," *EnvirominE Australia*, co-sponsored by The Australasian Institute of Mining and Metallurgy and The Zoological Parks Board of New South Wales. (*invited*)
- 1992 Co-Convenor and Chair of the National Drug and Alcohol Research Centre Annual Symposium on "Measuring the Economic Consequences of Drug and Alcohol Use: Implications for Policy," The Third International Conference on the Reduction of Drug-Related Harm, Melbourne (23–26 March). (*invited*)

- 1992– Research Team Member, National Centre for Epidemiology and Population Health’s project, “Feasibility Research into the Controlled Availability of Opioids — Stage 2”, funded by the Australian National University’s Strategic Development Fund. (*invited*)
- 1992– Reviewer, *Australian Journal of Political Science*.
- 1993– Reviewer, Australian Research Council Small Grant proposals. University of New South Wales, AGSM (1994–) University of Sydney, Faculty of Economics (1995) Macquarie University, Graduate School of the Environment (1996)
- 1993– Reviewer, *The Energy Journal*. (U.S.A.)
- 1994– Reviewer, *Journal of Economic Studies*. (U.K.)
- 1994–1995 Program Committee Member, IEEE International Conference of Evolutionary Computing, Perth (W.A.), November 1995. (*invited*)
- 1994– Referee of applications for funding from the National Health and Medical Research Council. (*invited*)
- 1994– Reviewer, *Addiction* (U.K.)
- 1995– Reviewer, *Journal of Evolutionary Economics* (Germany)
- 1995– Reviewer, *Australian Quarterly*
- 1995– Manuscript reviewer, Oxford University Press.
- 1995– Manuscript reviewer, Jacaranda Wiley.
- 1995– Manuscript reviewer, HarperEducation.
- 1995– Reviewer, Australian Research Council Large/Discovery Grant proposals.
- 1995– Reviewer, *Complexity* (U.S.A.)
- 1995 Delphi Group Participant, Office of Strategic Crime Assessment, Commonwealth Law Enforcement Board, “Heroin Delphi”. (*invited*)
- 1995–1996 Member, Organising Committee for the Conference, “Commerce, Complexity, and Evolution,” UNSW, February, 1996.
- 1996–1977 Diploma dissertation examiner, University of Stuttgart, Institut für Sozialforschung, Abteilung für Privatrecht. (Use of genetic algorithms in economics and finance.)
- 1996– Manuscript reviewer, Addison Wesley Longman.
- 1996– Reviewer, *Journal of Economic Dynamics and Control* (U.K.)
- 1996– Reviewer, *Agenda* (Australia)
- 1997– Foundation editorial board member, *Journal of Comparative Policy Analysis: Theory and Practice*, (ISSN 1387-6988; Kluwer 1997–2003, Routledge 2004–). (*invited*)
- 1997– Reviewer, *Journal of Economic Behavior and Organization* (Netherlands)
- 1997 Ph.D. dissertation examiner, Australian National University (The economics of organisations and management)
- 1997– Reviewer, *Australian Journal of Agricultural and Resource Economics* (Australia)
- 1997 Invited Discussant at the Ph.D. Conference in Economics and Business, Economic Research Centre, Department of Economics, The University of Western Australia (November 5–7) (*invited*)
- 1998 Invited Co-organiser (with colleagues from the University of London and

- the University of Illinois) of a session on Applications/Policy Use of Agent-based Computational Economics (ACE), the ACE Workshops for the International Federation of Automatic Control/Society for Computational Economics/International Federation for Information Processing/International Federation of Operational Research Societies Symposium on Computation in Economics, Finance, and Engineering: Economic Systems, Cambridge, UK, (June 29 – July 1) (*invited*)
- 1998– Reviewer, U.S. National Science Foundation, Division of Social, Behavioral, and Economic Research.
- 1998 Member, organising committee, Fourth Conference on Complex Systems, UNSW, November 1998. (*invited*)
- 1998 Member, program committee, Genetic and Evolutionary Computation Conference, Orlando, Florida, July 1999. (*invited*)
- 1999– Reviewer, *Computational Economics* (The Netherlands)
- 2000– Reviewer, *Advances in Evolutionary Computation*, (eds. A. Ghosh and S. Tsutsui, University of Illinois) Springer-Verlag, New York, 2003.
- 2000– Associate Editor, *IEEE Transactions on Evolutionary Computation*, special issue on Agent-Based Modeling of Evolutionary Economic Systems (U.S.A.) (*invited*)
- 2001– Member, Program Committee of the Second International Workshop on Computational Intelligence in Economics and Finance, held as part of the Sixth Joint Conference on Information Science, held at the Research Triangle Park, North Carolina, U.S.A. March 8–13, 2002. (*invited*)
- 2002 Ph.D. dissertation examiner, UNSW (Real options)
- 2002– Reviewer, *Journal of Comparative Policy Analysis: Research and Practice*. (U.S.A.)
- 2002–2003 Ph.D. dissertation examiner, Latrobe University (Industrial organisation)
- 2002–2003 Member, Program Committee of the Third International Workshop on Computational Intelligence in Economics and Finance, to be held as part of the Seventh Joint Conference on Information Sciences, Cary, North Carolina, September 26–30, 2003. (*invited*)
- 2002– Manuscript reviewer, Routledge.
- 2003– Reviewer, U.S. National Science Foundation grant proposal on “Understanding critical workforce shortages: an agent-based modeling approach to synthesizing individual, organizational, and labor market effects.”
- 2003– Referee, Iowa State University, application for conferral of Distinguished Professor in Sciences and Humanities.
- 2004– Referee, Bilkent University (Turkey), application for appointment as Associate Professor in Faculty of Economics, Administrative and Social Social Sciences.
- 2004– Reviewer, *Australian Economic Review* (Australia)
- 2005– Manuscript reviewer, Cambridge University Press.
- 2005– Doctoral examiner, London Business School. (Industrial organisation:

- agent-based electricity markets) (*invited*)
- 2005– Reviewer, *Bulletin of Economic Research*, (U.K.)
- 2005– Foundation editorial board member, *Journal of Economic Interaction and Coordination*, (ISSN: 1860-711X; for the Society of Economic Science with Heterogeneous Agents, by Springer). (*invited*)
- 2005– Reviewer, *Applied Psychology: An International Review*, (U.K.)
- 2005– Local host, The New England Complex Systems Institute, Boston (NECSI) One-Week Intensive Course: Complex Physical, Biological and Social Systems, held at the AGSM, December 5–9. (*invited*)
- 2005–2006 Program Committee Member, The Fifth International Conference on Computational Intelligence in Economics and Finance (CIEF06), Kaohsiung City, Taiwan. October 8–11. 2006. (*invited*)
- 2006– Member, ARC Economic Design Network.
- 2006– Member, ARC Complex Open Systems Research Network.
- 2006– Reviewer, U.S. National Science Foundation, Division of Decision, Risk and Management Science Program. (*invited*)
- 2006–2007 Member, Program Committee of the 13th International Conference on Computing in Economics and Finance, under the auspices of the Society for Computational Economics, (SCE2007), 14–16 June 2007 at HEC Montreal, Canada. (*invited*)
- 2006–2007 Member, Program Committee (Business and Economics) of the Eighth Australian-Pacific Complex Systems Conference, Complex'07, Brisbane, July 2–6.
- 2006–2007 Member, Program Committee of the Sixth International Conference on Computational Intelligence in Economics and Finance (CIEF2007), at the Marriott Salt Lake City Center, Salt Lake City, Utah, USA, July 15–22, 2007. (*invited*)
- 2006–2007 Member, Program Committee for the Workshop on Complex Adaptive Economic Systems, at the 9th European Conference on Artificial Life (September 10th–14th, 2007), Lisbon, Portugal. (*invited*)
- 2007– Guest Editor, two Special Issues of *The Knowledge Engineering Review* (ISSN: 0269-8889; C.U.P.) on the topic of multi-agent simulation models in economics.
- 2007– Reviewer, *Journal of Artificial Societies and Social Simulation*, U.K.
- 2007– Reviewer, *Organizational Science*, U.S.A.
- 2007– Founding member, Advisory Board of the Complex Systems Research Centre, University of Technology, Sydney.
- 2007– Member, Computational Finance and Economics Technical Committee (CFETC) of the Computational Intelligence Society (CIS) of the Institute of Electrical and Electronic Engineers, Inc. (IEEE).
- 2007– Reviewer, Social Sciences and Humanities Research Council of Canada/Conseil de recherches en sciences humaines du Canada. (SSHRCC)
- 2008 Ph.D. dissertation examiner, University of Sydney. (Game theory)
- 2008 Member of the Expert Advisory Panel of the Market-Based Control of Complex Computational Systems Project, sponsored by the U.K.

- Engineering and Physical Sciences Research Council (EPSRC), at the Universities of Liverpool, Birmingham, and Southampton. (*invited*)
- 2008 Project Assessor, Early Career Researcher, Small Grants Scheme 2008, Faculty of Information Technology, Monash University.
- 2008 PhD dissertation examiner, Swinburne University of Technology, Melbourne.
- 2008 Scientific Committee Member, The II International Conference on Industrial Engineering and Industrial Management (XII CIO 2008), Burgos (Spain), September 3–5, 2008. (*invited*)
- 2008 Program Committee Member, The Seventh International Conference on Computational Intelligence in Economics and Finance (CIEF08), Taiwan, December 5–7, 2008. (*invited*)
- 2008– Reviewer, *Australian Economic Papers*.
- 2009– Nominator for the Calvó-Armengol International Prize, established by the Barcelona Graduate School of Economics, the Government of Andorra, and the Credit Andorrà Foundation. (*invited*)
- 2009 Scientific Committee Member, The International Conference on Economic Science with Heterogeneous Interacting Agents 2009 (ESHIA/WEHIA 2009), Beijing, China, June 18–20, 2009. (*invited*)
- 2009 Reviewer, the *Annals of International Society of Dynamic Games*, Vol. XI, ed. by Michele Breton (Springer).
- 2009 Member, project review panel, Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia. (*invited*)
- 2009–2010 Member, Program Committee, First International Workshop on Agent Technologies for Energy Systems (ATES 2010), at the Ninth International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2010) in Toronto, Canada, 11th May, 2010. <http://www.ates2010.org/> (*invited*)
- 2010 Scientific Committee Member, The XIV Congress of Engineering Organization — IV International Conference on Industrial Engineering and Industrial Management (CIO2010) Donostia-San Sebastian (Spain), September 8–10, 2010. (*invited*)
- 2010 Reviewer, *Environmental Science & Technology*, USA.
- 2010 Member, The Ormond College (University of Melbourne) Sustainability Committee panel. (*invited*)
- 2010 Reviewer, *IEEE Transactions on Computational Intelligence and AI in Games*, USA. (*invited*)
- 2010– Reviewer, *The Economic Papers*, Australia. (*invited*)
- 2010 Peer Reviewer for the Excellence in Research for Australia of the Australian Research Council. (*invited*)
- 2010–2011 Member, Program Committee, Second International Workshop on Agent Technologies for Energy Systems (ATES 2011), at the Tenth International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2011) in Taipei, Taiwan, May, 2011. <http://www.ates2011.org/> (*invited*)
- 2010– Reviewer, *Industrial Marketing Management*, U.S.A. (*invited*)

- 2011– Reviewer, *Sociological Methods and Research*, U.S.A. (*invited*)
2011– Reviewer, the Netherlands Organisation for Scientific Research, Division of Social Sciences. (*invited*)
2012 Member, Program Committee, Third International Workshop on Agent Technologies for Energy Systems (ATES 2012), at the Eleventh International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2012) in Valencia, Spain, 4–8th June, 2012. <http://www.ates2012.org/> (*invited*)

Professional Experience:

- 1969 Research Officer, Division of Building Research, Commonwealth Scientific and Industrial Research Organisation, (Melbourne):
Computer analysis and design of ductile structures.
- 1969–1970 Research Assistant, Urban Systems Laboratory, Massachusetts Institute of Technology:
Dynamics of urban growth, in the New Cities Program.
- 1970 Researcher, Computer-Aided Design Group, University Computer Laboratory, University of Cambridge:
Mathematical description of curved surfaces.
- 1975–1977 Research Assistant, National Bureau of Economic Research – West, (Stanford):
Use of the Capital Asset Pricing Model to help identify “problem” banks by analyzing their liability portfolios.
- 1979–1980 Consultant, Australian Railways Research and Development Organisation, (Melbourne):
Use of econometric and systems dynamics models in long-range forecasting.
- 1980–1981 Advisor to the ACTU–CAGEO submission to the Australian Financial Inquiry, the Campbell Inquiry.
- 1983 Advisor to the Tasmanian Wilderness Society:
The economics of job generation and “sunrise” industry assistance.
- 1985 Consultant, Decision Focus Incorporated (Los Altos, California):
Modelling the Australian energy-economy system.
- 1985–1987 Consultant, Environmental Defender’s Office Ltd, (Sydney):
Economic appraisal of Environmental Impact Statements: the proposed Dargue’s Reef gold-mine and the proposed Wyan hard-rock quarry.
- 1987 Expert Witness, N.S.W. Land and Environment Court:
In the matter of the proposed Wyan hard-rock quarry.
- 1987 Consultant, Bankstown City Council (Sydney):
Financial appraisal of proposed property developments.
- 1988 Consultant, University of New South Wales (Sydney):
Project evaluation.
- 1989 Address, Tenth Senior Executive Officers’ Course, Australian Police Staff College (Sydney) (March):
Drugs policy.
- 1989 Expert Witness; Parliament of Australia; Joint Committee on the National

- Crime Authority; Inquiry into Drugs, Crime and Society (Sydney):
Drugs policy.
- 1989–1991 Consultant, CRA Ltd. (Melbourne):
Energy, fuels, and carbon dioxide emissions.
- 1990 Address, Western Australian Coal Industry Council, (Collie, March 8):
The Toronto proposal for carbon dioxide emissions.
- 1990 Presentation at the half-day seminar on current energy issues, organised by
the ALP's Energy Science & Technology Policy Committee,
(Melbourne, 24 June):
Greenhouse: the energy and economic context.
- 1990 Expert Witness: Parliament of Australia; Senate Standing Committee on
Industry, Science and Technology; Inquiry into reducing the impact of
the greenhouse effect (Melbourne, June 26):
The cost of Australian carbon dioxide abatement.
- 1992 Consultant, Corporate ScoreCard Pty. Ltd., (Sydney):
Scoring multi-attribute economic risk.
- 1994 Consultant, Unisearch, for the Department of Primary Industry and
Energy, (Canberra):
Economics of residential energy use
- 1994–1996 Consultant, Unisearch, for the NSW Environmental Protection
Authority, (Sydney):
The development of composite indices for the NSW *State of the Environment*
Report
- 1994–1995 Expert Witness, for Australian Metals Holdings Pty. Ltd., before the
Administrative Appeals Tribunal,
In the matter of Australian Metal Holdings Pty. Ltd. v. the Australian
Securities Commission.
- 1995 Lecturer at the Anglovaal Limited Phakamisa Programme, Australia, for
AGSM Ltd. (Sydney, May 2):
Australia — Some Economic Issues
- 1996 Consultant, Unisearch, for Multiplex Constructions Pty. Ltd., (Sydney):
Decision making for construction of the Olympic Stadium
- 1996 Consultant, with Freehill Hollingdale & Page (Sydney), for Amalgamated
Television Services Pty. Ltd. (the Seven Network), in a trade
practices matter: Seven Network Ltd. ats Australian Competition and
Consumer Commission.
- 1997 Consultant, Freehill Hollingdale & Page (Sydney), for Austar
Entertainment Pty. Ltd., STV Pty. Ltd., and CTV Pty. Ltd., in a trade
practices matter:
The markets for television services
- 1997 Consultant, Freehill Hollingdale & Page (Sydney), preparation and
presentation of the seven-module programme, "Economics for
Competition Lawyers".
- 1997 Consultant, Mallesons Stephen Jaques (Sydney), discussion on a
presentation on strategy for lawyers.
- 1997 Consultant, Phillips Fox (Sydney), for East Coast Pay Television Pty Ltd,

- in a trade practices matter:
The markets for television services
- 1999 Consultant, for Austar Entertainment Pty. Ltd. (Sydney), in a submission to the Australian Competition and Consumer Commission:
Declaration of prescription broadband television services.
- 2000 Consultant, Centre for International Economics (Canberra and Sydney) for the N.S.W. Treasury, with “A Training Course on Contract Theory and Its Application to Government.”
- 2000 Consultant, Dymock’s Booksellers per Deacon’s (Sydney):
The value of an on-line bookseller, and its impact on bricks-and-mortar booksellers.
- 2001–2002 Consultant, The NSW Law Society per The Profit Foundation (Sydney):
An economic analysis of the NSW Legal Services Sector.
- 2001–2002 Consultant, The Profit Foundation (Sydney):
Sustainability
- 2003 Consultant, Price Waterhouse Coopers (Sydney):
Sustainability
- 2003 Consultant, Resource Protection Group/Argyle Diamonds (Perth):
Illicit industry and black markets
- 2004 Consultant, Commonwealth Department of Environment and Heritage:
Education about and for Sustainability in Australian Business Schools.
- 2005 Consultant, N M Rothschild & Sons (Australia) Limited, (Sydney),
preparation and delivery of lectures on Applied Game Theory:
Bargaining and Auctions.
- 2006 Consultant, Australian and New Zealand College of Anaesthetists,
(Melbourne), avian ‘flu pandemic and business continuity planning.
- 2006 Consultant, Royal North Shore Hospital Pain Management & Research
Centre, (Sydney), managing pain management clinics.
- 2007–2008 Consultant, Rio Tinto per Allens Arthur Robinson (Melbourne),
declaration of mining infrastructure and the Trade Practices Act.
- 2009 Address to students in the Energy Industry Study of the National Defense
University, Industrial College of the Armed Services, Washington,
D.C., May 8.
- 2010– Consultant, Baxter Health Care Pty Ltd (Sydney), on the Request for
Tender for the Supply of Imported Plasma and Recombinant Products.

Professional Memberships:

- Member, The Economic Society of Australia
- Member, The American Economics Association
- Member, The Econometric Society
- Member, The Association of Environmental and Resource Economists
- Member, The International Association for Energy Economics
- Member, The Institute for Operations Research and the Management Sciences

Member, Association of Economic Science with Heterogeneous Interacting Agents

Current Work:

- (1) Energy Policy, the World Oil Market, and the Environment.
 - Feasibility and cost of reducing CO₂ emissions.
 - World oil pricing.
 - Australian energy policy.
 - Environmental cost-benefit analysis.
 - The effects of energy supply fluctuations on employment and output in the short run.
 - Competitive pricing of mineral resources.
- (2) Strategic Behaviour and Optimal Strategies.
 - Rational expectations and the Prisoner's Dilemma.
 - Simulation of the evolution of economic institutions using the genetic algorithm.
Co-Director, AGSM Computer Tournament, 1986.
 - Strategic complexity.
- (3) Policy Towards Illicit Drugs.
- (4) The Economics of Incomplete Information.
- (5) Electronic Publishing.

Institutional Rôles — University

- 1977–1987 AGSM Representative, UNSW Text and Reference Book Consultative Committee
- 1986–1988 Elected Councillor, University of New South Wales.
Member: University Corporate Planning Committee, Student Affairs Committee, Working Party on Open Council.
- 1988 Appointed member, Selection Committee for Appointment of a Pro-Vice-Chancellor, UNSW
- 1989–2005 Invited member, Management Committee of the UNSW Energy Research, Development and Information Centre
- 1992–1999 Academic Board nominee, Management Committee for the UNSW Institute of Environmental Studies.
- 1995–1997 Academic staff nominee, Selection Committee for Appointment of a Dean, Australian Graduate School of Management, UNSW.
- 1995– Invited member, Advisory Committee of the Centre for Applied Economic Research, UNSW.
- 1999– Invited member, UNSW Transport Reference Committee.

- 2001–2003 Invited member, UNSW Qualification Committee for promotion to associate professor.
- 2002–2004 AGSM member, UNSW Committee on Education.
- 2006 AGSM member, committee established to consider the implications for the course-work master's of the merger between the AGSM and the FCE.

Institutional Rôles — AGSM

- 1978–1983 Member and Admissions, AGSM Higher Degree Committee
- 1979–1980 Director, AGSM MBA/MPA Program
- 1979 Foundation Editor, *AGSM Selected Papers*
- 1981–1985 Director, AGSM Resource Economics Executive Short Course.
- 1984–1997 Economics Editor, *Australian Journal of Management*
Redesign of the layout and production of the *AJM*, including overseeing its implementation, 1986–87.
- 1985–1986, 1993–2004 Head, AGSM Economics Cluster. (This is equivalent to head of department.)
- 1986–1987 Chair, AGSM Computer Committee
- 1987–1988 Member, AGSM Working Group on Computing
- 1989–1992 Member, Board of Management, Australian Graduate School of Management, UNSW
- 1991 Member, Sasakawa Scholarship Committee, Australian Graduate School of Management, UNSW
- 1992 Member, Advisory Council, Australian Graduate School of Management, UNSW
- 1997–1998 Member, Committee to Review the Frank Lowey Library, Australian Graduate School of Management, UNSW.
- 1997–2010 Editor in Chief, *Australian Journal of Management*, www.agsm.edu.au/eajm (ISSN: 0312-8962, 1327-2020)
- 1999–2006 Member, AGSM Executive.
- 2000–2006 Member, AGSM Program Committee.
- 2000–2001 Member, AGSM Appraisal Committee.
- 2002–2006 Member, AGSM Standing Committee.
- 2003 Member, AGSM Appraisal Committee.
- 2004 Chair, AGSM Curriculum Committee.
- 2004–2006 Member, AGSM Academic Board.
- 2004–2006 Member, AGSM Research Committee.
- 2005–2006 Member, AGSM Appraisal Committee.

Institutional Rôles — ASB

- 2006–2010 Editor in Chief, *Australian Journal of Management*
- 2006– Member, Head of School Advisory Committee, School of Economics.
- 2007– Member, Accelerated Learning Laboratory.

Institutional Rôles — Other

- 1968–1969 Secretary, Melbourne University Research Students' Association
1980– Honorary Secretary, New South Wales Branch, Pembroke College
Cambridge Society.
1989– Founding Member, Interim Committee, Foundation for Drug Policy of
Australia and New Zealand, Sydney

Teaching Experience:

- 1976–1977 Stanford University, Engineering-Economic Systems M.S. and Ph.D.
programs:
EES 110 Microeconomics.
- 1977–1984 UNSW, AGSM MBA/MPA Program:
(REM was the designer as well as the instructor of the following five
AGSM subjects:)
AGSM 608 Economic Investment Appraisal
AGSM 713 Management in Society
AGSM 720 Public Finance
AGSM 721 Economics of Natural Resources
AGSM 722 Energy Economics and Management
- 1977–2001 UNSW, AGSM Executive Course Program:
AGSM Development Program for Managers
AGSM Three-Day Executive Course on Resource Economics
Director, 1981–85
AGSM Special One-Day Program, “Finding the Middle Ground:
The Use of Market Incentives to Protect the Environment,”
Director, 1991
AGSM Two-Day Executive Program, “Thinking Strategically:
Gaining the Competitive Edge in Business”,
Director, 1997–
AGSM Two-Day Executive Program, “Managerial Decision
Making”,
Co-Director, 1997–
- 1982 University of Technology, Sydney, Master's in Information Science,
Visiting Instructor in
32103 Decisionmaking under Uncertainty
- 1985–2009 UNSW, AGSM MBA Program:
AGSM 200 Markets and Prices
AGSM 202 Economic Investment Appraisal
AGSM 204 Macroeconomics for Managers
AGSM 206 Microeconomic Analysis
AGSM 303 Taxes and Organizations
AGSM 304 Resource Markets and Management
AGSM 305 Energy Markets and Management
AGSM 306 Strategic Game Theory for Managers
AGSM 594 Systems, Strategy and Sustainability

- 1987–1992 UNSW, School of Science and Technology Studies, Master of Science and Society Program: Visiting Lecturer in
SCTS5100 Science and Society in the Twentieth Century
- 1989–1992 UNSW, School of Community Medicine, Master of Community Health/Master of Public Health Programme: Visiting Lecturer
- 1990 UNSW, AGSM, Graduate Management Qualification, Two-day seminar on The Business Environment: Challenges for Managers, (Sydney, June 23; Melbourne, July 7):
Australia and the World
- 1990 UNSW, International Professional and Continuing Education Institute, Audio Cassette Series for the New Manager, *Decision Making: Decision-making under uncertainty*
- 1994 UNSW, AGSM, Graduate Diploma in Management: Course consultant for: Mngt 1301 Managers, Markets and Prices.
- 1995–1997 UNSW, Graduate School of Engineering, Master of Business and Technology, GSOE.9109 Energy Management:
World and Australian Energy Markets
- 1997–1999 UNSW, Faculty of Engineering, Study Abroad Summer Program, ELEC0932 Energy Beyond 2000: An Engineering and Management Perspective,
World and Australian Energy Markets
- 1997–2004 UNSW, AGSM Executive Programs:
Thinking Strategically: Gaining the Competitive Edge in Business (two-day program)
Director, 1997–2004
- 1997–2001 UNSW, AGSM Executive Programs:
Managerial Decision Making (two-day program)
Co-Director, 1997–2001
- 2002–2009 UNSW, AGSM MBA Interdisciplinary Program:
Mngt 5192 Business Ethics
Co-presenter, then sole presenter.
- 2002–2004 UNSW, AGSM Executive MBA:
Strategic Management 1: Rivalry
- 2003 UNSW, AGSM MBA Individual Study in Management:
“Duloxetine: An Economic Analysis and Communication Plan”,
for Eli Lilly Australia Pty. Ltd. (three students: Clement Leong, Philip Smith, Penny Wong; David Grainger at Eli Lilly), April–July, 2003.
- 2003–2006 UNSW, AGSM MBA Management Projects:
Bank entry in an overseas market, for the Commonwealth Bank
(four students: Vivien Ronnebeck, Nuno Brissos, Carlos Vasquez Fernandez, Sue Ann Tan), October–December, 2003.
Bank entry into overseas markets, for the Commonwealth Bank.
January–March, 2004.
The retail landscape for packaged consumer goods — Oceania,

for Nestlé Australia (four students: Gladys Ambrosio, Paul Kelly, Germán Laso, Scott Shillinglaw),
October–December, 2006.

- 2004– UNSW, AGSM PhD Program:
MNGT0783 Simulation for the Social Sciences
- 2007 UNSW, Economics Undergraduate honours thesis co-supervisor.
- 2008 UNSW, AGSM MBA Program:
Foundations of Management: one-day intensive on Business Ethics

Practical Experience:

- 1964–1965 Factory worker, Barastoc Pty. Ltd. (3 months)
- 1965–1966 Chainman, Victorian State Rivers and Water Supply Commission (3 months)
- 1966–1967 Surveyor, Victorian Country Roads Board (3 months)
- 1967 Design engineer, Victorian Public Works Department (1 month)
- 1967–1968 Assistant site engineer, John Holland & Co. Pty. Ltd. (3 months)
- 1981– Director, Marks & Saulwick Pty. Ltd., Melbourne
- 1990–1991 Member, Business Advisory Board, National English Academy, Sydney
- 1991–1993 Director, AGSM Ltd., Sydney

Public Addresses and Broadcast Interviews:

These invitations can be seen to fall into two categories: drug policy and energy/environmental policy. The most influential must be my appearance on *Four Corners*, in August 1990, on energy and environmental policy.

- 1985 Mosman Debating Society, guest proposer: “That heroin addicts should be subsidised,” (August 15)
- 1985 UNSW Law School, guest speaker on heroin policy, (October 4)
- 1986 Rotary Club of Kensington, guest speaker on heroin policy, (October 3)
- 1988 ABC Television’s *Sunday Conference*, invited speaker on drug policy, in “The Legal Needle,” (September 25)
- 1988 Radio 2UE’s *Mark Day Show*, invited guest on drug policy, (November 8)
- 1989 Radio 3AW’s *The 12:30 Report* with Brett McLeod, invited guest on drug policy, (February 27)
- 1989 Radio 2BL’s *David Argent Show*, invited guest on drug policy, (February 27)
- 1989 Macquarie Radio Network’s *Australia Overnight* with Wendy Gilmore, invited guest on drug policy, (February 28)
- 1989 ABC Radio National’s *Newsvoice* and national news bulletins, interview with Sian Phillips on drug policy, (February 28, March 1)
- 1989 ABC NSW Regional Radio’s *Paul Lineham Show* with Julie Darrett, invited guest on drug policy, (February 28)
- 1989 Radio 2DAY-FM’s news service, interview with Meryl Evans on drug policy, (February 28)

- 1989 Radio 2NC's *Micki de Stoop Show*, invited guest on drug policy, (March 1)
- 1989 Radio 5UD's *Adelaide at Five* with Raphaël Tandivo, invited guest on drug policy, (March 3)
- 1989 Parliament of Australia, presentation before the Parliamentary Joint Committee on the National Crime Authority under its inquiry on Drugs, Crime and Society, Sydney (March 16)
- 1989 Radio 2GB's news service, interview with Patrick Burns on drug policy, (March 16)
- 1989 Radio 2UE's *Mark Day Show*, invited guest on drug policy, (March 17)
- 1989 ABC NSW Regional Radio's *Paul Lineham Show* with Doug Drew, invited guest on drug policy, (March 17)
- 1989 Radio 2BL's *John Doyle Show*, invited guest on drug policy, (March 20)
- 1989 ABC Radio Darwin, interview with Tony Haritos on drug policy, (March 23)
- 1989 Radio 2SER-FM's *Thursday Canvass* with Joe Gelonese, invited guest on drug policy, (May 4)
- 1989 UNSW Capitalist Club, guest speaker on drug policy, (May 22)
- 1989 Radio 2JJJ-FM's *Cassi Plate Show*, invited guest on energy conservation and the environment, (May 25)
- 1989 The Nine Network's *Sixty Minutes* with Richard Carleton, invited guest on drug policy, (September 24)
- 1989 Radio 6WF's *Drivetime* with Mike McClusky, invited guest on drug policy, (October 4)
- 1989 Australian Labor Party, Camperdown Branch, invited speaker on drug policy, (October 11)
- 1989 Radio 2UE's *Phillip Adams Late Night*, invited guest on drug policy, (November 7)
- 1989 Addressed a public meeting at the Parmelia Hilton Hotel, Perth, on the greenhouse effect and the costs of reducing CO₂ emissions, (December 12)
- 1989 Addressed a public meeting at the Hilton Hotel, Brisbane, on the greenhouse effect and the costs of reducing CO₂ emissions, (December 14)
- 1990 Radio Australia's *Background Briefing* with Ian Wood, invited guest on energy and the Greenhouse effect, (February 13)
- 1990 Western Australian Coal Industry Council, invited address on the Toronto proposal for CO₂ emissions, (Collie, W.A., March 8):
- 1990 ABC Radio National's *Background Briefing*, invited guest on Stan Correy's "Legalise or penalise: fighting the war against illegal drugs in the United States," (March 25, 27)
- 1990 Radio 7ZR's *Nights with Jules* with Jules Retrot, invited guest on drug policy, (May 17)
- 1990 Parliament of Australia, presentation before the Senate Standing Committee on Industry, Science and Technology under their reference on Reducing the Impact of the Greenhouse Effect, Melbourne (June 26)
- 1990 Radio 6WF's *Drivetime* with Kevin Hume, invited guest on the cost of CO₂ abatement for Australia, (July 2)
- 1990 ABC Television's *Four Corners* with Andrew Olle, invited guest on government policy towards global warming, in "Political Climate," (August 6)

- 1990 Channel TEN-10's *Ten Evening News* with Eric Walters, interview with Howard Sacre on the economic effects of higher oil prices, (October 2)
- 1990 The Ten Television Network's *Good Morning, Australia*, interview with Kerri-Anne Kennerley on the economic effects of rising world oil prices, (October 5)
- 1991 Papua New Guinea National Broadcasting Commission's Radio Kalang, interview with Roger Hauofa on drug use, crime, and the PNG minimum-wage laws, (May 15)
- 1992 ABC Northern Territory Regional Radio's 8AL,8TC *Talkabout*, interview with Rae Allen on the use of market instruments to protect the environment, especially mine sites, (March 30)
- 1992 Radio 7ZR's *Judy Tierney Programme* interview with Judy Tierney on the use of market instruments to protect the environment, especially mine sites, (March 30)
- 1994 Radio 5AM's *Phillip Satchell Show* roundtable discussion with Phillip Satchell, Phillip White, and Michael Moore on the costs of existing drug laws, (March 10)
- 1995 ABC Television's *7:30 Report* interview with Ray Moynihan on the economics of drug policy, (June 14)
- 1995 ABC Television's *7:30 Report* interview with Quentin Dempster on the size of the illicit drug market, (June 26)
- 1995 ABC Radio National's *Background Briefing*, invited guest on Suzanne Campbell's "Methadone," (July 23, 25)
- 1995 Radio 7ZR's *Drivetime* with Chris Nielsen, interview on cannabis laws, (August 8)
- 1996 UNSW Students' Guild, "Economic Growth and Environmental Destruction: Is economic rationalism really rational?" a speaker in the forum on economic growth and the environment, (August 27)
- 1997 Public Forum on Environmental Policy, "Can the liberal capitalist state deliver ecologically sustainable development?" one of three speakers, UNSW School of Science and Technology Studies, Environmental Studies Program, (October 15)
- 1998 Deutschland Radio (Berlin), interviewed by Johannes Kaiser, February 9. (Environmental policy)

Mentions in the Popular Press:

These can be seen to fall into three categories: competitive strategy and game theory, drug policy, and energy/environmental policy. The most significant are mentions in editorials in the *Sydney Morning Herald* (May 9, 1989) and *The Independent Monthly* (February, 1994), both on the economics of drug policy.

- 1969 *The Age*, (Melbourne) "RACV group calls for reform," p. 2, June 16. [reforming the accounts of the Royal Automobile Club of Victoria]
- 1969 *The Age*, (Melbourne) "RACV fees go up by 50¢," June 18.
- 1969 *The Herald*, (Melbourne) "RACV power fight tonight," p. 6, June 18.
- 1969 *The Age*, (Melbourne) "RACV reformers told to get out of building," p. 3, June

- 26 [photo].
- 1985 *The Sydney Morning Herald*, "Heroin: a lesson in free market economics," Ross Gittins, p.11, May 22.
- 1985 *The Herald*, (Melbourne) "Heroin: can we afford to ban it?" Ross Gittins, May 27.
- 1987 *The Canberra Times*, "He dared to win," February 23. (On my win in the M.I.T. Competitive Strategy Tournament)
- 1987 *The Herald*, (Melbourne) Trumps, edited by Barrie Dunstan, February 27. (On my win in the M.I.T. Competitive Strategy Tournament)
- 1987 *Computing Australia*, "'Guru' wins top prize for a song," [photo], March 9. (Interviewed on my win in the M.I.T. Competitive Strategy Tournament)
- 1988 *The Australian Financial Review*, "Time to legalise heroin," P.P. McGuinness, pp.76-75, November 8.
- 1988 *The Bulletin*, "Heroin: why don't we just legalise it?" Kevin Murphy, pp.66-73, December 6.
- 1989 *Uniken*, "Economist advocates freeing up heroin market," pp.1-10, February 24. (Interview)
- 1989 *The Sydney Morning Herald*, "Heroin review call," February 28.
- 1989 *The Age*, "Heroin bans cost nation \$386m, says economist." p.17, February 28.
- 1989 *Daily Telegraph (Country Edition)*, "Legalise heroin 'to help addicts'," p.14, February 28.
- 1989 *The Sydney Morning Herald*, "Legal heroin will reduce deficit, says academic," Paul Chamberlin, March 17.
- 1989 *The Age*, "Legalising drugs could cut deficit: academic," March 18.
- 1989 *The Weekend Australian*, "To reduce the problems of crime and corruption, legalise heroin," P.P.McGuinness, p.2, March 18-19.
- 1989 *Sunday Telegraph*, Quotes of the Week, p.138, March 19. (On drug policy)
- 1989 *The Canberra Times*, "Strange coalitions at drugs inquiry," Greg Truman, March 20.
- 1989 *The Sun-Herald*, "Pressure mounts to legalise heroin," Brett Thomas, Frank Walker, and Bruce Jones, pp.16-17, April 9.
- 1989 *Uniken*, "Economist calls for more government intervention in energy market," p.5, May 5. (On energy conservation)
- 1989 *The Sydney Morning Herald*, Editorial: "The limited case for legal heroin," May 9.
- 1989 *The Australian*, "New look at Prisoner's Dilemma," Computer Supplement p.30, May 30. (On machine learning to conduct computer experiments)
- 1989 *Engineers Australia*, "Standby and Alternative Power: Australia has a huge untapped resource — energy wasted through inefficiency," Cheryl Jones, pp.24-26, June 2.
- 1989 *The Australian Financial Review*, "Drugs: time for law reform?" Mary Rose Liverani, Weekend Review pp.1, 3, 8, July 21.
- 1989 *Quadrant*, "Heroin: to be legal or not?" Kenneth Gee, pp.38-39, July.
- 1989 *Uniken*, "Tit for Tat best strategy for oligarchies [sic]," p.7, August 4. (On machine learning to conduct computer experiments)
- 1989 *The Sydney Morning Herald*, "Heroin: the lost war," Lindsay Simpson and John

- Lyons, pp.71–74, September 9.
- 1989 *The Sydney Morning Herald*, “The devil’s miracle cure,” John Stapleton, p.74, September 9. (On drug policy)
- 1989 *Uniken*, “Resolving policies for environment,” September 29.
- 1989 *The Australian*, “Evidence shows heroin policy is not working,” P.P. McGuinness, p.2, October 4.
- 1989 *Business Review Weekly*, “CRA joins the greenhouse debate,” pp.38–43, October 27.
- 1989 *The Weekend Australian*, “Thrown to the lions for 60 minutes, less breaks,” Phillip Adams, p.2, October 28–29. (On drug policy)
- 1989 *The Sun-Herald*, Planet Earth: “Haines harries the profit motive,” Elisabeth Mealey, November 11. (On greenhouse policy)
- 1989 *The Age*, “A cut in emissions will hurt economy, says CRA,” November 24. (On greenhouse policy)
- 1989 *The Age*, Letter: “CRA shared concern about greenhouse effect,” L. Clifford, November 29.
- 1989 *The Age*, “Cutting greenhouse gases aids economy, says expert,” Richard Smithers, December 2.
- 1989 *The Australian Financial Review*, “Fighting greenhouse has an economic cost,” Mark Lawson, December 4.
- 1989 *The Age*, “Cost of fuel efficiency high, paper says,” p.10, December 5.
- 1990 *The Australian Financial Review*, “Australia’s greenhouse dilemma disregarded by election campaign,” Michael Stutchbury, March 7.
- 1990 *IPA Review*, “Poor, but green,” p.5, Autumn. (On greenhouse policy)
- 1990 *Uniken*, “Cut in carbon dioxide emissions could result in wage slump,” pp.1–5, April 20.
- 1990 *The Australian*, “Clean air has \$30bn price tag,” p.2, April 27.
- 1990 *The Australian Financial Review*, “Aust faces \$30bn battle to curb greenhouse gases,” p.38, April 27.
- 1990 *Centre Lines* (National Drug and Alcohol Research Centre), “No, it’s not the Last Supper!” [photo], p.7, May. (NDARC Annual Symposium)
- 1990 *Australian Business*, “How green is your MBA?” [photo], Jan Smith, pp.81–84, June 13. (Interviewed on environmental management education)
- 1990 *The Australian Financial Review*, On the Other Hand: “All gassed up on greenhouse omissions,” David Clark, September 10.
- 1990 *The Weekend Australian*, “The greenhouse of cards,” Ralf Buckley, p.22, September 29–30.
- 1990 *The Australian Financial Review*, Economics Extra: “Clayton’s greenhouse plan makes sense,” Michael Stutchbury, p.13, October 17.
- 1990 *Uniken*, “ERDIC examines transport fuel emissions,” [photo] pp.1–2, October 26.
- 1991 *Uniken*, “Environmental economics workshop,” [photo] p.6, April 19.
- 1991 *The Sydney Morning Herald*, Canberra Insider: “Greenhouse bureaucracy is a growing concern,” Tom Burton, p.32, June 15.
- 1991 *The Sunday Age*, “Can we afford to support the habit?” Paul Robinson, p.9, July 7. (On drug policy)
- 1991 *The Australian*, Comment “Funds, games and green propaganda,” Padraic P.

- McGuinness, August 16.
- 1992 *The Weekend Australian*, "Companies urged to put up and pay out if they pollute — Industry embraces market mechanisms to save environment," Ann-Maree Moodie, [photo] p.6, March 21–22. (Interview)
- 1992 *The Australian Financial Review*, "Failure lies in underpricing of pollution," Michael Stutchbury, p.13, June 17.
- 1993 *The Sydney Morning Herald*, "Busted: the worst effect of marijuana," Sonya Voumard, June 15. (Interview)
- 1993 *Business Review Weekly*, Managing: "The problem with economics is people," David James, pp. 74–76, December 17. (Interviewed on game theory and evolutionary economics.)
- 1994 *The Independent Monthly*, Editorial: "How to save 400 lives this year," p. 7, February. (Drug costs and policy)
- 1994 *The Australian*, "Smokers need encouragement, not abuse," P.P. McGuinness, p.48, February 8. (On drug policy)
- 1994 *Law Society Journal* (Sydney), "Law Society Council adopts policy on drug law reform," Shaughn Morgan and Mary Rose Liverani, [photo], 32(1): 38–43, February.
- 1995 *The Australian Financial Review*, "Appeal into closed tender for Aust Ag," Kathryn Bice, p.14, January 4. (Expert witness on theory of auctions)
- 1995 *The Sydney Morning Herald*, "Cold facts and a load of hot air," Gavin Gilchrist, p.32, August 12. (CRA study into the costs of carbon dioxide abatement)
- 1996 "Just a rumour," a letter of mine was published in both *The Australian* (14 August) and *The Sydney Morning Herald* (17 August):
"I heard a rumour last week that John Howard wants to bring back the Fahrenheit scale... But it can't be true: it doesn't save the Government any money, and Mr Howard didn't promise to retain Celsius before the last election."
- 1997 *Decisions*, "The greening of business," Berwyn Lewis, [photo], pp.18–22, July. (The National Australia Bank, Melbourne)
- 1997 *Economics Monitor*, "Illegal Drugs," pp.14–18, October. (Access Economics, Canberra)
- 1997 *The Sydney Morning Herald*, The Bottom Line: "\$7bn trade that escapes tax net," Max Walsh, pp.25–26, October 9. (The economics of the illicit drugs industry)
- 1997 *Uniken*, "Ecological sustainability? Not likely," Rory McGuire, p.7, November 7. (Democracy and the environment)
- 1997 *Uniken*, "Government initiative will increase drug deaths," p.4, November 7. (Drug policy)
- 1999 *Herald Sun* (Melbourne), Insight: "Addicts fuel \$7 billion industry," Glenn Mitchell, John Ferguson and Fran Cusworth, p.5, February 19. (The economics of the illicit drugs industry)
- 2000 *AGSM Magazine of the Australian Graduate School of Management* (Sydney), E. Yetton Award, [photo], Spring 2000. (General Editor, *Australian Journal of Management*.)

- 2002 *The Australian Financial Review*, "Taxpayers may subsidise country lawyers," Chris Merritt, p.51, February 15. (Law Society report on the effects on National Competition Policy)
- 2002 *The Australian Financial Review*, "Reasons for decline hard to pinpoint," Chris Merritt, p.51, February 15. (Law Society report on the effects on National Competition Policy)
- 2002 *The Australian Financial Review*, "NSW rural practices doing it tough," Kate Marshall, p.55, April 19. (Law Society report on the effects on National Competition Policy)
- 2002 *The AGSM Magazine*, "It's time for action on ethics," Helen Zampetakis, pp. 16-17, Issue 3. [photo]
<http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-Actiononethics>
[http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-Actiononethics/\\$FILE/02_Iss3_Feat_ActionOnEthics_p16-17.pdf](http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-Actiononethics/$FILE/02_Iss3_Feat_ActionOnEthics_p16-17.pdf)
- 2003 *The AGSM Magazine*, "Green ideas," p.29, Issue: 2 * 2003.
- 2003 *The AGSM Magazine*, "Fighting price wars with game theory," Lachlan Colquhoun, pp. 20-21, Issue 3. [photo]
<http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-Fightingpricewars>
- 2004 *Business Review Weekly*, "Price as a weapon," David James, pp. 64-65, August 26-September 1.
- 2005 *The Age*, "Big Four use agility to disprove fears of their fragility," Marc Moncrief, p. B7, October 15. (Banks and government policy)
- 2005 A letter of mine (on popular music) was published in the *Australian Financial Review*, p.59, November 29.
- 2005 *National Business Review* (Auckland), "Economists concur on muddle through in 2006," David Cohen, p. 26, December 9. [AGSM Professor Robert Marks presented a paper on Avian Bird Flu at a London Business School economic forum in Melbourne. Discussions included the global economic outlook, globalisation strategies, leadership and the role of business schools.]
- 2006 *AGSM Magazine*, "CSR makes a move," Issue 2, pp.32-35, [Commenting on ethical dilemmas in business and business education.]
<http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-CSRMakesAMove>
- 2007 *The Sydney Morning Herald*, "Business saddled with \$3b burden of drug use," Ruth Pollard, p. 5, April 23, and *Herald Sun* (Melbourne), "Drugs cost business \$3.3b" (AP) April 23.
[The launch of the ADLRF's *The Three Billion Dollar Question for Australian Business* report, by D. Collins, H. Lapsley, and R. Marks.]
- 2007 *The AGSM Magazine*, "Business bears majority of burden of illicit drug use," Issue 1, 2007.
<http://www2.agsm.edu.au/agsm/web.nsf/Content/AGSMMagazine-drugreport>
- 2008 Complanet Ltd, www.complanet.com, "Australian bank merger talks put pressure

- on four pillars,” by Nathan Lynch. May 13, [Westpac-St George bank merger: The Four Pillars policy still isn’t justified.]
- 2008 *The Australian Financial Review*, “Decision sends ‘wrong signals,’” by Ashley Midalia, September 25, p.7 [High Court decision on Fortescue Metals Group access to BHP Billiton’s Pilbara railway under Part IIIA of the Trade Practices Act.]
- 2009 *The Australian*, “Bunkers on agenda for fire-prone areas,” by Brendan O’Keefe, February 13, p.6 [Argues for simple bunkers or dugouts as a retreat to add to flight or fight, following the Stretton Royal Commission recommendations of the 1940s.]
- 2009 *The Financial Times* (London), “Swine flu: when America sneezes,” by Brian Groom, July 25. [says the economic cost at this stage appears no worse than seasonal flu “there are costs associated with people’s reactions to the virus and these are difficult to quantify.” Marks says companies have yet to give serious consideration to the impact if a large percentage of their workforce went absent.]
- 2010 *The Sydney Morning Herald*, “Column 8,” a piece about the Americans editing Ringo Starr’s readings of Thomas the Tank Engine. February 9, p. 28.
- 2011 *The Sydney Morning Herald* | *The Sun-Herald : The Guide*, “Ask Doug,” has offered a DVD of *The Tale of Ruby Rose*, July 24–31, p. 6.

Other Accomplishments and Interests:

- 1962 Invested as a Queen’s Scout (Fourth Troop, First Hawthorn Scout Group) by His Excellency, General Sir Dallas Brooks, the Governor of Victoria.
- 1973–1978 Member of the Peninsula Bach Choir in the California Bach Society, under the late mæstro Ted Flath.
- 1983 Member of the record consort, The Pipes of Oberon, which won the Open Consort Section at the City of Sydney Eisteddfod in the Sydney Opera House.
- 1996–2000 Founding member, Stephen Vincent Choir, Balmain.
- 1999– Signatory, Disability in the Arts, Disadvantage in the Arts Australia accounts. (On the Register of Cultural Organisations.)
- 2000–2001 Deputy Chair, First Balmain Scout Group.
- 2000 Baritone soloist, *The Green-Eyed Dragon with the Thirteen Tails*, (Charles/Newman, 1926), concert under the auspices of the Stephen Vincent Chorus at the Campbell Street Presbyterian Church, Balmain, 22 October.
- 2002– Member, Sydneian Bach Choir: Brahms’ German Requiem, Bach’s Mass in B Minor, Tallis’ Spem in Alium, Orff’s Carmina Burana, Monteverdi’s 1610 Vespers, Bach Cantatas, Britten’s St Nicholas, Bach’s St Matthew Passion.
- 2006 Member, Sydneian Bach Choir under mæstro Christopher Shepard, winners of the Open Choir and Community Choir Sections, at the City of Sydney Eisteddfod.

