HOWARD THOMAS

Emeritus Professor of Strategic Management and Management Education Lee Kong Chian School of Business, Singapore Management University Ahmass Fakahany Distinguished Visiting Professor of Global Leadership Questrom School of Business, Boston University, USA

Visiting Professor of Strategic Management at:

HEC Montreal Canada

GIBS University of Pretoria, South Africa Coventry University, UK and Woosong University, Korea Special Advisor, EFMD, Brussels

NAME: Howard THOMAS

HOME ADDRESS: England

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Oakland

76, Tiddington Road, Stratford-Upon-Avon,

CV 37 7BA ENGLAND, U.K.

MARITAL STATUS: Married

CITIZENSHIP: British Citizen

OFFICE ADDRESS: Lee Kong Chian School of Business (SINGAPORE) Singapore Management University

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Singapore 178899

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EDUCATION: 1964 London University, B.Sc. (Statistics)

1965 London University, M.Sc. (Statistics)

1966 University of Chicago, M.B.A. (Mathematical Methods and

Econometrics)

1970 Edinburgh University, Ph.D. (Decision Analysis)

HONORARY DEGREES: 2007 D.Sc, Edinburgh University

2008 Honorary Degree / Fellowship, Swansea University

D.Sc, Honorary Degree, Grenoble École de Management
 D.Sc, Doctor of Civil Law, Honorary Degree, University of

Northumbria in Newcastle, UK

2013 Doctor of Letters, Murdoch University in Perth Australia

2017 Honorary Degree / Doctor of Business Administration, Woosong

University, Korea (2017)

2018 Appointed Professor Extraordinaire, University of Pretoria, South

Africa

SUMMARY

Howard Thomas is a highly cited scholar, with fellowship awards from the Academy of Management, the British Academy of Management, the Strategic Management Society, the Academy of Social Sciences, and the Institute of Directors. He was also awarded the Richard Whipp Lifetime Achievement Award of the British Academy of Management in 2013, and the Strategic Leadership Award from the American Association of Collegiate Schools of Business (AACSB) in 2014. He is a companion of the Association of Business Schools in the UK, and former chair of the board of the Graduate Management Admissions Council (GMAC), AACSB, the Association of Business Schools (ABS), and the Global Foundation of Management Education (GFME). He is also an honorary life member and a board member of the European Foundation for Management Development (EFMD). He served as president of the Strategic Management Society and has held visiting and permanent academic posts at the Australian Graduate School of Management (AGSM), the London Business School, MIT's Sloan School of Management, the Kellogg School of Management, the European Institute for the Advanced Studies in Management, and the University of British Columbia. He is also the recipient of several honorary degrees.

PREVIOUS EMPLOYMENT:

2015 - 2018	MasterCard Chair on Social and Financial Entrepreneurship Singapore Management University
January 2015 - 2018	LKCSB Distinguished Professor of Strategic Management and Director, Academic Strategy and Management Education Unit Singapore Management University
August 2015 - Present	Ahmass Fakahany Distinguished Visiting Professor of Management, Questrom School, Boston University
Summer 2015	Visiting Distinguished Professor, University of Johannesburg, South Africa
January 2010 - 2015	Dean of Lee Kong Chian School of Business (LKCSB), Singapore Management University
January 2003 - Present	Professor Afflié, HEC, Montreal, Canada
July 2000 – December 2010	Warwick Business School, University of Warwick Dean of Warwick Business School and Professor of Strategic Management. Member of University Steering Committee, Senate and Board of the Faculty of Social Studies.
1996 - 2000	Honorary Professor, Warwick University.
1992	Visiting Professor, MBA, Krems , Austria.
May 1992 – August 2000	Dean, College of Commerce and Business Administration.
August 1991 – May 1992	Acting Dean, College of Commerce and Business Administration.
January 1990 – August 2000	Director, Office of International Strategic Management, University of Illinois at Urbana-Champaign.
1990 - 1995	Associate Fellow, Templeton College , Oxford.
1994, 1995, 2000	1990-1995 Visiting Professor, International Postgraduate Management Center, University of Warsaw, Poland.
1988 - 2000	Visiting Chair in Management, St. Andrews University, Scotland.
1987 - 2000	Visiting Professor in Management, Imperial College, London
1985 - 1992	Visiting Chair in Management, Manchester Business School

1990	Kellogg Graduate School of Management, Northwestern University (Sabbatical) Visiting Professor of Policy and Environment, Kellogg School, Northwestern University. Also Visiting Fellow, Templeton College, Oxford, Visiting Professor, INSEAD, France and AGSM, Sydney/GSM Melbourne, 1/90 - 9/90.
1987	Sloan School of Management, MIT (Leave of Absence Without Pay) Professor of Policy and Strategy, Behavioral and Policy Sciences Division, Sloan School of Management, MIT. Also, Visiting Senior Research Fellow, Strategic Planning Institute, Cambridge, Mass., 1/87 - 12/87.
Fall 1987 – August 2000	James F. Towey Distinguished Professor of Strategic Management at University of Illinois, Urbana-Champaign.
1984	London Business School and European Institute of Advanced Studies of Management (Leave of Absence Without Pay) Professor of Strategic Management and Senior Research Fellow, Center for Business Strategy, London Business School. Also, Professor of Strategic Management, European Institute for Advanced Studies in Management, Brussels, 1/84 - 8/84.
End 1980 – July 2000	 University of Illinois at Urbana-Champaign, U.S.A.: Professor, Department of Business Administration Member, I.B.E. Chair Search Committee, 1981-82 Member, Department Advisory Committee, 1981-86, 1989-90 Coordinator, Strategic Management and Policy Group, 1981-83, 1985-86, 1988-89, 1990-91 Chairman, Search Committee for Director of Executive M.B.A. Associate Head, Department of Business Administration, 1983-86. Visiting Professor in Management, University of Aston Management Center, England, 1984-86. Member, Search Committee for Dean of College of Commerce, 1985-86. Chair of Search Committee for Chair in Entrepreneurship, 1985-86. Distinguished University Senior Scholar for Academic Excellence (closed competition), University of Illinois at Urbana-Champaign, 1986-89. (Award of \$10,000 per year Research Fund for each of three years) Chair, Search Committee for IBE Chair, January 1988. Member of College of Commerce Executive Committee, 1988-89, 1990-91. Chair of Search Committee for the Head of Economics Department, 1988-89. Member of Campus Research Policy Committee, 1989-90. Member of Search Committee for Vice-Chancellor of Research, 1991-92. Member of Campus Continuous Improvement Committee, Framework for the Future, 1994-96. Member of Campus Advisory Team for University S³ (Support, Systems, Services) Strategy Initiative, 1998.
October 1975 – January 1979	 Australian Graduate School of Management, Sydney, Australia: Foundation Professor of Management. Held on a visiting basis from October 1975 to February, 1977. [Chairman of M.B.A./M.P.A. Programme, 1977-79; Coordinator of Planning Task Force, 1977-78; Director of Executive Short Courses, 1977-80; Member of Senate and Professional Board, University of New South Wales, 1977-80.] Summer 1977: Visiting Professor, London Business School (Decision Analysis Research)

	 Winter 1978: Visiting Professor, London Business School (Decision Analysis Research) October 1978-January 1980: Leave of absence without pay January-June, 1979: Visiting Professor, Policy Division, School of Business Administration, University of British Columbia, Vancouver, Canada June-December 1979: Visiting Professor of Business Administration,
	University of Illinois
1969 - 1977	 London Business School: Permanent faculty member 1969-72 Lecturer in Statistics and Operational Research 1971-77 Director of Decision Analysis Unit, L.B.S. 1972-75 Director of Doctoral Programme, L.B.S. Senior Lecturer in Statistics and Operational Research, L.B.S. 1969 – 1980 Adjunct Professor of Management, European Institute for Advanced Studies in Management (EIASM), Brussels, Belgium. [Held in association with London Business School and AGSM appointment.]
January – June 1975	Visiting Professor of Decision Theory and Analysis, University of Southern California
1969 - 1970	Foundation for Management Education and Ford Foundation Visiting Assistant Professor in Decision Analysis, Harvard Business School
1966 - 1969	 University of Edinburgh: Lecturer in Statistics and Operational Research 1967 (Summer) Visiting Fellow, CORE, Louvain, Belgium 1968 (Summer) Visiting Fellow, INSEAD/CEDEP, France
1965 (Summer)	Visiting Fellow, Statistics, University of Wisconsin
1964-65	Graduate Tutor and Assistant Lecturer in Statistics, London School of Economics

Research Interests

- Risk analysis and risk taking
- Decision analysis and decision support
- Strategic groups
- Industry and competitive analysis
- The strategic theory of the firm
- Strategic decision-making processes, problem formulation and planning
- International business and the management of state-owned enterprises
- Particular interests in strategic decision-making processes in high-technology industries such as electronics and pharmaceuticals and in the processes of strategic thinking in the finance and insurance-based sectors
- Resource-based and cognitive models of the firm and their role in understanding such issues as distinctive competences and competitor definition
- Global competitive strategy
- Technology and innovation management
- Creativity and entrepreneurship

Teaching Awards

Cited as an outstanding teacher in executive programs at London Business School, University of Illinois, Kellogg School, Northwestern University, Templeton College, Oxford, the Australian Graduate School of Management and Singapore Management University.

Cited in the "List of Excellent Teachers" (compiled on the basis of student evaluations) at Edinburgh University, London Business School, University of Southern California, University of Illinois, Sloan School

of Management, MIT, the Australian Graduate School of Management and Singapore Management University.

Named Outstanding Educator, Executive MBA Program, University of Illinois, 1986, 1988, 1989. Similiary Outstanding Professor in Executive MBA Program, SMU, 2012, 2013, 2014.

Named to College Alumni Association Excellence in Graduate Teaching Award, 1990. University of Illinois.

<u>Thesis Chairman, at London Business School</u>, of: Charles E. Love (now Simon Fraser University), Derek W. Bunn (now London Business School), Peter J. Burville (now British Telecom), Paul Morris (now Northeastern University) and Andrew R. Lock (now Leeds Business School)

Served on thesis committees of many doctoral students and acted, for three years, as <u>Director of the Doctoral Program</u> at London Business School.

<u>Thesis Chairman, at Australian Graduate School of Management</u>, of: Paul Greenwood and Daniel Samson (now University of Melbourne)

Thesis Chairman, at University of Illinois at Urbana-Champaign, of: Inga Baird (Ball State), Avi Fiegenbaum (Michigan and Technion, Israel) now deceased, Wilbur Moulton (Toledo, now retired), Bill Bogner (Georgia State), Dennis Patterson, now deceased (Notre Dame), Yegmin Chang (Taiwan National University), Michael Levenhagen (Cal Poly, San Luis Obispo), J. R. M. Pandian (University of Woolongong), Kevin Fertig (University of Illinois), Mark Pruett (George Mason University), Donald E. O'Neal (University of Illinois, Springfield), John McIntosh (University of Nebraska), Kannan Ramanathan (Oklahoma City University), Philip Gorman (California State University-Northridge), Teresa Nelson (Suffolk University), Greg Winter (Oklahoma City University), and Charles Carroll (Groningen).

<u>Thesis Committee Member, at Illinois</u>, of: Prabhu De (Finance), Ivan Bull (Illinois), Pam Barr (Georgia State), Rachel Davis (NYU), Rhonda Reger (Maryland), Vijaya Narapareddy (Cal. State San Luis Obispo) and Tim Pollock (Wisconsin).

<u>Thesis Supervisor at Warwick</u>, of: Amanda Goodall (Leverhulme Fellow and University of Bonn, Cass Business School), Taman Powell (Cardiff Business School), Fernando Fragueiro (IAE and Harvard Business School), Andrew Bramley, Dohyeon Kim, Julie Davies (now Professor, University of Huddersfield, U.K.)

<u>Thesis Supervisor at LKCSB</u>, of: Miguel Soriano (LKCSB), Lim Chong Phung (LKCSB), and Yang Xuemei (LKCSB/CKGSB (China)).

<u>Thesis Committee Member</u> of: Richard R. Smith (Lee Kong Chian School of Business, Singapore Management University).

Research Grants

1966-69: Co-investigator with Professor J. N. Wolfe, University of Edinburgh on "Economics of

Science" - sponsored by SSRC, Departments of Science, Energy, Industry, U.K.

(c.£100,000)

1966-69: Co-investigator with Professor Hilde Behrend, University of Edinburgh on "Attitudes

Towards Incomes Policy" - sponsored by SSRC, Treasury, Department of Employment,

U.K. (c.£75,000)

1971-77 (continued through January 1, 1979):

Decision Analysis Research Grants to Decision Analysis Unit, London Business School (with Professor P. G. Moore) (Multi-year approx. £100,000 per year).

Principal Investigator on SSRC grants:

"Measurement Problems in Decision Analysis"

"Decision Analysis and Policy"

Principal Investigator, Atomic Energy Authority, Programmes Analysis Unit "Assessment of Subjective Probability"

"Risk Assessment"

Principal Investigator, British Insurance Association "Decision Analysis and Insurance"

Other sponsorship by organizations such as Commercial Union, Post Office, Shell and Unilever Ltd.

1977-80: Continuing research grant in "Decision Making in Insurance" (as above) [AIA].

Principal Investigator, "Management Education in Australia" (funded by AGSM, GMA Australia).

- 1981-82: Graduate College Research Board: Grant awarded (with Professor Charles Schwenk) for project entitled "Policy Dialogue as an Aid to Strategic Decision-Making." (c.\$10,000)
- 1982-83: Graduate College Research Board: Grant awarded (with Professor Irene Duhaime) for project entitled "An Evaluation of Formal Strategic Planning for Decision-Making." (c.\$12,500)
- 1983: Office of Naval Research: Grant awarded (with Professor Lou Pondy) to support conference and research in "Managing Ambiguity and Change." (c.\$40,000)
- 1983: Graduate College Research Board: Grant awarded to support a research project entitled "Risk-Taking and Strategic Management." (c.\$10,000)
- 1983: Hewlett Foundation, Office of International Programs and Studies: Competitive Fellowship, one of only three made, given to support research on state-owned enterprises. (c.\$15,000)
- 1984: Graduate College Research Board: Grant awarded (with Professor K. Ravi Kumar) to support a research project entitled "Game Theoretic Approach to the Evolution of Strategic Groups." (c.\$10,000)
- 1985: Graduate College Research Board: Grant awarded to support a research project entitled "Dynamic Aspects of Competitive Strategy in the Insurance Industry: A Strategic Approach." (c.\$10,000)
- 1985: Consultant Research Investigator: Alvey Project on the Evaluation of Emerging Technologies, London Business School, England.
- 1985: Project MICA Grant: Grant for a research project on "Information Technology and Corporate Strategy." (c.\$50,000)
- 1986: Named University Senior Scholar by the University of Illinois Foundation. Award of \$10,000 per year for three years. First award to College of Commerce, University of Illinois at Urbana-Champaign.
- 1988: Grant of \$25,000 awarded by C.E.R.L. (Construction Engineering Research Laboratory) for Industry Analysis of Construction Management Industry.

Consultant Research Investigator and Chief Investigator, ESRC-UK Project on Cognitive Structures in Competitive Strategy, Manchester Business School. (£55,000)

1989: NSF Grant of \$95,000 for "Dynamics of Strategic Change" with Anne Huff (BA) and James Huff, Dept. of Geography.

1992-95:	CIBER Grant, Principal Investigator, Department of Education, Washington (\$185,000 per year) for four years.
1994:	Proctor and Gamble, GE and ATT Grants (with College of Engineering) for "Management of Technology" (\$450,000).
1998	Caterpillar Corporation Grant for Research on Risk and Decision Analysis (with D. Kleinmuntz and D. Sudharshan) (\$50,000).
2000- 2010	Warwick Business School (various grants e.g. AXA, Santander etc.) (Approx £250,000)
2015- 2018	Mastercard SMU Research Programme on Financial and Social Inclusion (\$500,000)
2015- 2018	Grants from EFMD, AACSB, GMAC to study the Evolution of Management Education Across the World

Professional Organizations and Editorial Activities

Distinguished Leadership Award, AACSB, 2014

Awarded **Richard Whipp Lifetime Achievement Award**, British Academy of Management, September, 2013

Member of the EFMD and EFMD GN Boards, 2011-2018

Hon. Life Member of European Foundation for Management Development (EFMD), 2008

Companion of Association of Business Schools, CABS, 2008

Vice-President for Business Schools of the European Foundation for Management Development (EMFD) (efmd, 2000-2007)

Fellow of: British Academy of Management, Sunningdale Institute of the Cabinet Office, U.K., Strategic Management Society, Academy of Management, U.S. Academy of Social Sciences UK and Institute of Directors, U.K.

President of the Strategic Management Society (1997-2000)

Dean of Fellows, Strategic Management Society, 2008-2011

Chair of the Board of GMAC (Graduate Management Admissions Council) (1999-2000)

Chair of Global Foundation for Management Education, 2007-2010

Chair of Association of Business Schools, UK, 2008-2010

Vice Chair and Chair of AACSB International, 2008-2010 Past chair, 2010-2011

Elected Vice-Dean (then Dean) Fellow Group, British Academy of Management, 2018

Member of: Academy of International Business, **U.S.** British Academy of Management (BAM), Global Foundation for Management Education (GFME),

Academy of Management (U.S) and Strategic Management Society (U.S)

Editorial Board Member: Strategic Management Journal (1980-2010), Academy of Management Review (1988-93), Long Range Planning (Present)

Program Secretary and Council Member, Royal Economic Society, 1971-74.

Vice-President for Publications, Strategic Management Society, 1991-95.

Member of the Executive Committee, British Academy of Management, 1991-95.

Member of the Board, Strategic Management Society, 1992-2004.

President, Strategic Management Society; elected in 1994 for three year term (1997-2000).

Past-President, Strategic Management Society (2000-2002)

Member of Executive Committee, Strategic Management Society (1993-2002)

Co-Chair of AACSB (American Association for Collegiate Schools of Business) Accreditation Committee, University of Iowa, 1994, 1995.

Chair of AACSB Accreditation Committee, University of Alberta, 1996.

Member of AACSB/AMBA Accreditation Committee, University of Warwick, 1999.

Chair of AACSB Review Team, Ivey Business School, University of Western Ontario, September, 2000.

Chair of AACSB Review Team, HEC Business School, Paris, October, 2000.

Elected as an Inaugural Fellow, British Academy of Management, March (1995).

Elected as Fellow, U. S. Academy of Management, 1999.

Member of the Board of Graduate Management Admissions Council (GMAC), 1996-2000. <u>Vice-Chair</u> of GMAC Board, 1998-1999; Chair of Board, 1999-2000.

Elected as Member of Board, AACSB, June 2000; re-selected February 2002 for further two-year term.

Member of Board of Directors, Beta Gamma Sigma (Academic Honour Society in Business), 1998-2000. Named as Governor Emeritus of Beta Gamma Sigma, 2011

Elected as Member of Academic Council, European Institute for Advanced Studies in Management, 2001-2011.

Member of International Accreditation Advisory Board, Association of M.B.A.s., 2002-2010

Member of AACSB Review Team, Henley Management College, 2001.

Chair of AACSB Review Team, University of Western Ontario, 2002.

Chair of AACSB Review Team, Australian Graduate School of Management, University of New South Wales, 2002.

Chair of AACSB Review Team, Rice University, Jones Graduate School, 2008.

Member of EQUIS Review Team, Mannheim Business School, 2009.

Editor of Technology, Strategy and Entrepreneurship series, Pergamon Press, 1990-2011.

Consulting Editor: Strategic Management and Decision Sciences, Emerald Publishing.

Paper reviewer for Decision Sciences, Infor, Omega, Strategic Management Journal, Academy of Management Review, Academy of Management Journal, Administrative Science Quarterly, Journal of Management Studies, Sloan Management Review, Management Science, Journal of the Operational Research Society.

Academic Honors and Awards

State and Local Authority Awards, U.K., 1961-64. Social Sciences Research Council Fellow, U.K., 1964.

First International Business Program Fellowship, University of Chicago, 1965-66 (closed fellowship awarded to outstanding graduate student, London School of Economics).

Ford Foundation Professorship and Foundation for Management Education Fellowship, 1969-70, Harvard Business School.

NATO Seminar Fellow, Conference on "The Role of Effectiveness of Decision Theories in Practice," Luxembourg, 1973. Topic: "Assessing Subjective Probability in Decision Analysis."

ILO Sponsored Visiting Professor/Distinguished Lecturer in Czechoslovakia (Prague, Bratislava, Kosice), 1974. [With Dr. L. D. Phillips (Brunel University)]

Invited paper, International Conference on "Theorie et la Decision," INSEAD/CEDEP, Paris, 1975. Topic: "Decision Analysis and Bidding."

Invited seminar series, IESE, San Sebastian, Spain, 1975. Topic: "Risk Analysis." [With Professor D. B. Hertz (Columbia), Professor P. G. Moore (London Business School)]

Invited paper, "International Conference on Analytic Approaches in Strategic Management," INSEAD, Paris, 1976. Topic: "Decision Analysis and Policy."

Invited paper, "The Field of Policy Analysis: Education in Business Policy and Strategic Management," presented at First National Conference on Management Education, Australian Graduate School of Management, Sydney, 1978.

Invited paper, "Measurement Problems in Decision Analysis: Research Issues and Questions," International Social Sciences Research Council Symposium, London, 1981.

Invited paper, "Risk Analysis, Capital Asset Pricing and Strategic Management," presented at Inaugural International Conference of Strategic Management Society, "Global Strategic Management in the 1980's," London, 1981.

Co-chairman with Professor D. Gardner (Illinois) of an International Symposium, "Strategic Marketing and Management," University of Illinois, May 1982. The symposium was sponsored by the American Marketing Association and the University of Illinois. Proceedings published by John Wiley and Sons, 1985.

Co-chairman with Professor A. Negandhi (Illinois), Professor K. L. K. Rao (Indian Institute of Management) of International Conference, "State Owned Multinationals and International Business." This International Conference was held at Allerton Conference Center, Illinois, November 1982.

Invited paper at Strategic Management/Business Policy International Symposium, Arlington, Texas, February 1983, "Effects of Decision Aids on Problem Structuring and Solution Quality" (with Professor C. Schwenk).

Co-Chairman with Professor Lou Pondy (Illinois) and Dr. Michael McCaskey (President, Chicago Bears) of symposium entitled "Managing Ambiguity and Change." This symposium was held at the Illini Union, November 1983.

Hewlett Fellowship, Office of International Programs and Studies, 1983-84 to support research on state-owned enterprises.

Chair of European Doctoral Consortium in Strategic Management, EIASM, Brussels, June 1984 and Co-Chair of Workshop on European Strategic Management Research, EIASM, Brussels, June 1984.

Invited paper at U.K. Operational Research Society Special One-Day Symposium entitled "Subjectivity in Operational Research." Presented one of only five papers: "Subjectivity in Decision Analysis," November 1984.

Invited paper at Prince Bertil Symposium on Global Strategies to celebrate 75th anniversary of the Stockholm School of Economics, November 1984.

Invited paper on Strategy Taxonomies given at an International Conference on Strategy in Retailing, England, November 1985, sponsored by Arthur Young, Management Consultants.

Awarded University Senior Scholar Designation (University of Illinois award), 1986-1989. [Only ten awarded per year for academic excellence throughout the University of Illinois. System Grant of \$30,000.]

Chair of European Doctoral Consortium in Strategic Management, May 1986 and Co-Chair of Workshop on Strategy in Service Industries, EIASM Brussels, May 1986.

Co-Chair (with Anne Huff) of Workshop on "Managing Information for Competitive Advantage," sponsored by OIM and IBM, Champaign, November 1986.

Co-Chair (with Joe Porac) of Workshop on "Managerial Thinking in Competitive Environments," Boston, October 1987.

Best Paper Prize (with Joe Porac) for "Taxonomic Structures in Managerial Cognition: Evidence from Retailing" 2nd Conference on Decision-Making and Information Processing: Contextual Influences, SUNY Buffalo, June 9-10, 1988.

Co-Chair with Herman Daems (Harvard) Workshop in Competitive Strategy. European Institute for Advanced Studies in Management, November 1988.

Chair of Conference on Theory Development in Strategy, Illinois 1990 (sponsored by Office of International Strategic Management).

Chair of Doctoral Consortium in Strategy, Academy of Management, San Francisco, CA, August 1990.

Co-Chair (with R. Sanchez and A. Heené) of Workshop in Competence Based Competition, EIASM, Brussels, November 1993.

Co-Chair of Conference with Mike Shaw, Global Information Technology and Electronic Commerce, Beckman Institute, University of Illinois, 1996 (Co-sponsored with National Center for Supercomputing Applications).

Awarded AAA/AICPA National Prize for Best Accounting Monograph Relating to Theory and Practice, 1998 for 'Accounting Organisations Through a Strategic Systems Lens' (with T. Bell, F. Marrs and I. Solomon).

Cited in International Who's Who and Who's Who in America.

Consulting Experience (Selected)

Lecturer on In-Company Training Courses and for external bodies which include:

- (i) The British Institute of Management
- (ii) The Civil Service College

- (iii) The Glacier Institute of Management
- (iv) Institute of Chartered Accountants
- (v) Institute of Marketing
- (vi) Philips N.V.
- (vii) Unilever
- (viii) Johnson and Johnson
- (ix) State Farm Insurance
- (x) SingHealth

Chief Examiner in Marketing Research and Applied Statistics, Institute of Marketing. Ph.D. Committee Chairman for several theses in the area of decision analysis.

Editorial Adviser and Consultant on strategic management texts to publishers such as Croom Helm Ltd., Elsevier Emerald Publishing, Harper and Row, Penguin, Pergamon, Pitman, Siege John Wiley Ltd., Springer, Verlag.

Consultant to Wood, Mackenzie Ltd., Stockbrokers, Edinburgh, in the fields of investment policy and quantitative approaches to investment management.

Consultant to J. Sainsbury Ltd., on decision analysis applications in retailing.

Consultant to Economic and Social Research Institute, Dublin, on Incomes Policy Research. Consultant to Computerguard Ltd., on decision analysis applications in the detection and insurance of fidelity guarantee risks.

Consultant to Sandoz Ltd., on the application of decision analysis to strategic pharmaceutical R & D management.

Consultant to B.O.C.M. Silcock Ltd., on the application of decision analysis to strategic problems in the agribusiness field.

Consultant to Hewlett-Packard Ltd., on R & D management decision-making policy.

Consultant to B.P. Ltd., on the role of risk analysis in oil and gas exploration policy.

Consultant to Ferguson Industrial Holdings on board-level strategic relocation decisions.

Consultant to Unilever Ltd., on decision theory-involving training, education and implementation of decision analysis at senior management level.

Consultant to Civil Aviation Authority on the application of decision analysis to strategic decision-making in the aviation field.

Consultant to BIA and several insurance companies on the management of risk in insurance.

Consultant to Department of Energy on the formulation of oil and gas policy.

Consultant to James Scott & Sons Ltd., and the Electrical Contractors Association on the application of decision analysis in contract management (with foreign exchange risk problems).

Consultant to Civil and Civic, Sydney, at senior management-level on decision-making in contracting and purchasing.

Consultant to Commercial Union at senior executive director level on management applications of decision analysis.

Consultant to Reserve Bank, Australia on education, planning and decision analysis problems.

Consultant to various government agencies, Canberra, Australia.

Consultant to Alcoa, Australia on education and planning.

Consultant to Amoco, Australia on planning and decision analysis.

Consultant to Telecom, Australia on public sector planning.

Consultant to Department of Administrative Services, State of Illinois.

Consultant to Department of Mental Health, State of Illinois.

Consultant to Urbana Chamber of Commerce, Long-Range Planning Committee.

Consultant to Shell UK on strategic planning and executive education.

Consultant on strategic management to Cabot Corporation.

Consultant on strategic planning to Motorola.

Consultant on strategic planning to Consolidated Communications.

Consultant on strategic planning to Regency Associates.

Consultant on strategy to Dean Foods.

Consultant on strategy to SURS.

Consultant on strategy to Johnson & Johnson and to Central Management Services, State of Illinois.

Member of the Board, Bank One, Champaign-Urbana, 1992-95.

Member of the International Advisory Board, WU Vienna, Austria, 2007- Present.

Consultant on strategy to Square D, Groupe Schneider and USG.

Consultant on strategy, State Farm Insurance, 1991-2000.

Member of the Board, State Farm Bank, State Farm Insurance 1996-2016.

Consultant to Cabinet Office, UK, 2007-2008

Consultant to AKEPT, Higher Education, Malaysia, 2009, 2011.

Consultant to EMERALD Publishing on strategy development.

Member of International Advisory Board, WU Vienna, 2008 - Present

Member of Advisory Board, GIBS, Johannesburg, South Africa, 2015-Present.

Member of Advisory Board, Northumbria University, U.K., 2009-Present.

Member of Advisory Board, Birmingham Business School, U.K., 2014-2018.

I. Publications or Accepted for Publication

Books/Monographs

Incomes Policy and the Individual (with H. Behrend), Oliver and Boyd, Edinburgh, 1967.

Decision Theory and the Manager, Pitman/Times Management Library, London, 1972.

Anatomy of Decisions (with P. G. Moore), Penguin, London, 1976.

Case Studies in Decision Analysis (with P. G. Moore), Penguin, London, 1976.

Modern Decision Analysis (with G. M. Kaufman), Penguin, London, 1977.

<u>Mathematics for Business Decision, Volume I</u>: Basic Mathematical Skills, University of New South Wales, Sydney, 1978 (preliminary edition).

<u>Mathematics for Business Decision, Volume II</u>: Mathematics for Optimisation and Resource Allocation, University of New South Wales, Sydney, 1978 (preliminary edition).

<u>Introduction to Statistical Thinking and Reasoning</u>, University of New South Wales, Sydney, 1978 (preliminary edition).

Formal Methods in Policy Formulation (with D. W. Bunn), Birkhauser Verlag, Basel, 1978.

Risk Analysis and its Applications (with D. B. Hertz), Wiley, New York and Chichester, 1983.

Practical Risk Analysis (with D. B. Hertz), Wiley, New York and Chichester, 1984.

Strategic Marketing and Management (with David M. Gardner), Wiley, New York and Chichester, 1985.

<u>Multi-National Corporations and SOE's: A New Challenge in International Business</u> (with Anant R. Negandhi and K. L. K. Rao). JAI Press, Greenwich (CT), 1986. (Research in International Business and International Relations, Vol. I.)

<u>Strategic Management Research: An European Perspective</u> (with J. McGee). Wiley, New York and Chichester, 1986.

Managing Ambiguity and Change (with L. Pondy and R. Boland), Wiley, New York and Chichester, 1988.

Anatomy of Decisions (2nd ed.) (with P. G. Moore), Penguin Books, London, 1988.

Risk and Strategy (with R. Bettis), JAI Press, Greenwich (CT), 1990.

<u>Journal of Business Venturing</u>, Special Issue on Theory Building in Entrepreneurship, ed., with Ivan Bull, Vol. 8, No. 3 (May), 1993.

<u>Perspectives on Theory Building in Strategic Management</u>, ed., special issue of Journal of Management Studies, Vol. 30, No. 1 (January), 1993.

Strategic Groups, Strategic Moves and Performance (with H. Daems), Pergamon Press, New York, 1994.

<u>Building the Strategically-Responsive Organization</u> (with D. O'Neal, R. White and D. Hurst), Wiley, Chichester and New York, 1995.

<u>Strategic Renaissance and Business Transformation</u> (with D. O'Neal and J. Kelly), Wiley, Chichester and New York, 1995.

<u>Entrepreneurship</u>: <u>Perspectives on Theory Building</u> (with I. Bull and G. Willard). Elsevier, Oxford (England), 1995.

Drugs to Market (with W. C. Bogner), Elsevier, Oxford (England) 1996.

Strategic Integration (with D. O'Neal), Wiley, Chichester and New York, 1996.

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