

curriculum vitae

Terence Love



1. Academic Degrees

1999: PhD; University of Western Australia, Faculty of Engineering, Computing and Mathematics (Thesis: Social, Environmental and Ethical Factors in Engineering Design Theory: a Post-positivist Approach).

1975: Post-graduate Certificate in Education ; St Martins College Lancaster University, Lancaster, UK; Mathematics and Science, (Teaching qualification).

1974: B.A. (Hons); Lancaster University, Lancaster, UK; Engineering (with operations research, industrial relations, behaviour in organisations);

2. Present Positions

2003- Curtin Research Fellow, Dept of Design, Curtin University, Perth, Western Australia.

2002- ICM Council Member of the Design Research Society, UK.

1995- Proprietor, Praxis Education (academic publishers), Perth Western, Australia

1992- Proprietor, Love Design and Research, Perth, Western Australia.

1992- Member, Management Panel (WA), Institution of Mechanical Engineers

1984- Assoc Member I.Mech.E

3. Previous Positions

2000-2003: Research Fellow and Manager of the We-B Research Centre, School of Management Information Systems, Edith Cowan University

2001-2003: Post-doctoral Research Fellow at Edith Cowan University undertaking research into the designing of information systems, knowledge economy issues, e-business, e-commerce, strategic leadership, and virtual organisations. Manager of the 'Working for e-Business Research Centre' (www.we-bcentre.com).

2000-2001 Chairperson of the E-Commerce Project Group (All University and Government (WA))

1999-2001: Contract Researcher at Edith Cowan University on a range of projects in business and social sciences in areas of: Australian Futures, Youth Services, Collaboration

between Community Organisations and Criminal Justice Agencies, Public Space planning.
1992-1999 PhD in Engineering Design at the University of Western Australia
1996: Sessional lecturer and external moderation marking Dept of Environmental Engineering at the University of Western Australia.
1995: Course designer for 2nd year Environmental Engineering Design course for Dept of Environmental Engineering at the University of Western Australia.
1995: Collaborator in course design for 3rd and 4th year courses in Design for the Dept of Environmental Engineering at the University of Western Australia.
1995 Moderation marking for Engineering and Society course for Dept of Environmental Engineering at the University of Western Australia.
1994-1995: Sessional lecturer in Project Management in Faculty of Engineering, Computing, Materials and Mathematics at the University of Western Australia.
1992-1993: Sessional laboratory demonstrator for Dept of Mechanical and Materials Engineering at the University of Western Australia.
1992-1993: Sessional tutor at the University of Western Australia in Project Engineering
1991: Team Leader for 72 hr student design workshop with Victor Papanek at Curtin University
1989-1990: Sessional lecturer in Engineering and Robotics for Lancaster & Morecambe College of Education
1989: Course designer for course in Robotics for Lancaster & Morecambe College of Education
1980 to 1991: Proprietor and manager of SPT Contractors and Technical Consultancy, UK
1984 (3 months): Part-time Fortran programmer for Gwylam Jenkins Partnership, Lancaster
1981 (3 months): Designer of four wheel drive farm machinery for Pimbleys Ltd Lancaster, UK.
1980-1981 Sessional lecturer Mathematics at WR Tuson College of Education, Preston, UK
1976-1978: Graduate Design Engineer at Dept of Advanced Engineering, Rover Cars, UK

4. Main Scientific Area

Design Research

5. Other Scientific Areas

Innovation, Knowledge Economy; Information Systems, Complex Systems Design, Information Warfare and Security, Neuro-biology of Design Cognition, Product Design,

6. Post-graduation students supervision

Associate supervisor 3 design-focused PhDs - map interfaces; emotion-based e-commerce website interfaces; and design infrastructure

7. Research

Chief investigator: Developing a Successful Australian Design Infrastructure for Innovation, Sustainability and International Competitiveness

Chief investigator: Establishing a Design-focused Municipal Knowledge Economy: Wanneroo City (Pilot Study)

Chief Investigator (joint): Scope of design in economic and social development: identifying sub-fields of human design activity

Chief Investigator (joint): Design of Social Support Programs: Identifying Viable System Structures and Critical Design inputs

Chief Investigator (joint): Roles of design activity in successful virtual enterprise: a constituent market orientation perspective

Chief Investigator (joint): Terrestrial sand transport mechanisms in urban coastal dune settings: implications for urban design processes and heuristics

8. Publications and Communications

(Most recent five year period - 68 items: 3 books, 6 book chapters, 11 journal articles, 29 refereed conference papers, 19 reviews, reports, working papers etc. Total publications is 82 items).

Books (3 items)

Sercombe, H., Omaji, P., Drew, N., Cooper, T. & **Love, T.** (2002). *Youth and the Future: Effective Youth Services for the Year 2015*. Canberra: National Youth Affairs Research Scheme.

Boyd, S., **Love, T.**, Sercombe, H. & Booth, S. (2001). *Jumping at Shadows: Young People and Public Space*. Perth: City of Joondalup.

Love, T. (1998a). *Social, Environmental and Ethical Factors in Engineering Design Theory: a Post-positivist Approach*. Perth, Western Australia: Praxis Education.

Book Sections/Chapters (7 items)

Love, T. (2003). Beyond emotions in designing and designs: epistemological and practical issues. In D. McDonagh, D. Gyi, P. Hekkert & J. v. Erp (Eds.), *Design and Emotion* (pp. 387-391). London: Taylor & Francis.

Love, T. (2003). Preface. In A. Bastick, *Intuition: Evaluating the construct and its impact on creative thinking*. London: Stoneman & Lang.

Love, T. (2002). Learning from the Design-Science Paradox: New Foundations for a Field of Design. In W. Jonas (Ed.), *The Basic Paradox* [electronic text at <http://www.verhaag.net/basicparadox/>]

Love, T. (2001). Concepts and Affects in Computational and Cognitive Models of Designing. In J. S. Gero & M. L. Maher (Eds.), *Computational and Cognitive Models of Creative Design* (pp. 3-23). Sydney: University of Sydney.

Love, T. (2001). Strategic Management of Knowledge for Designers: Meta-Theoretical Hierarchy as a Foundation for Knowledge Management Tools. In J. Gero & K. Hori (Eds.), *Strategic Knowledge and Concept Formation* (pp. 3-16). Sydney: Key Centre of Design Computing and Cognition, University of Sydney.

Love, T. (1999). Engineering design education: some implications of a post-positivist theory of design cognition. In N. Juster (Ed.), *The Continuum of Design Education* (pp. 33-42). Bury St Edmunds, UK: Professional Engineering Publishing Ltd.

Cooper, T., **Love, T.** & Buchanan, J. (1994). Ideology and Competencies. In J. Bessant, S. Cook, G. Coventry, D. Maunders & J. Wyn (Eds.), *Rethinking Policies for Young People: Towards a National Perspective* (pp. 90-96). Melbourne: Youth Research Centre, University of Melbourne.

Reviewed Journal articles (12 items)

Love, T. (In review). Australia's Economic & Social Development: Design Infrastructure Issues. *Design Journal*.

Love, T., & Cooper, T. (2004). Designing Online Information Systems for Portfolio-Based Assessment: Design Criteria and Heuristics. *Journal of Information Technology Education*.

Tellefsen, B., & **Love, T.** (2003). Doctoral Research in Design: The Future of the Practice-based Doctorate. *Journal of Design Science and Technology*, 10(2).

Tellefsen, B., & **Love, T.** (2003). Constituent Market Orientation and Ownership of Virtual Marketplaces. *Journal of Logistics and Information Management*, 16(1), 8-17.

Love, T. (2003). Design as a Social Process: Bodies, Brains and Social Aspects of Designing. *Journal of Design Research*, 3(1) (www.jdr.tudelft.nl).

Love, T. (2002). Constructing a coherent cross-disciplinary body of theory about designing and designs: some philosophical issues. *Design Studies*, 23(3), 345-361.

Love, T. (2002). Review of 'Flood, R. & Carson, E. R. (Eds) (1988) Dealing with Complexity: An Introduction to the Theory and Application of Systems Science'. *Visible Language*, 36(2).

Love, T. (2002). Review of 'Espejo, R. & Harnden, R. (Eds.) (1989). The Viable System Model: Interpretations and Applications of Stafford Beer's VSM'. *Visible Language*, 36(2).

Love, T. (2000). Philosophy of Design: a Meta-theoretical Structure for Design Theory. *Design Studies*, 21(3), 293-313.

Love, T. (2000). Computerising Affective Design Cognition. *International Journal of Design Computing*, 2.

Love, T. (1999). Values role in computer assisted designing. *International Journal of Design Computing*, 1.

Cooper, T. & **Love, T.** (1993). Community Perspectives on Planning. *Social Impact* (July), 6-7.

Refereed Conference Papers (32 items)

Love, T. (2003). A Fork in the Road: Systems and Design. In T. Haslett and R. Sarah (Eds), *ANZSYS'03 Proceedings of the 9th ANZSYS Australian and New Zealand Systems Conference*. Melbourne: Monyx [CDROM].

Love, T. (2003). Design-focused Professional Doctorates: Implications for Other Professional Doctoral Programs. In E. McWilliam (Ed.), *Research Training for the Knowledge Economy* (pp. 3-14). Brisbane: University of Queensland.

Love, T. (2003). Customers' Use of Products as Design Tools. In *Proceedings of the 6th Asian Design Conference*. Tsukuba.

Tellefsen, B., & **Love, T.** (2003). Constituent Market Orientation as a Basis for Integrated Design Processes and Design Management. In *Proceedings of the 6th Asian Design Conference*. Tsukuba [CDROM].

Cooper, T., & **Love, T.** (2003). Designing Doctoral Education Programs in Design: Articulation with Post Doctoral Career Pathways. In D. Durling & K. Sugiyama (Eds.), *Proceeding of the 3rd Doctoral Education in Design Conference* (pp. 3-14). Tsukuba: University of Tsukuba.

Love, T. (2003). Implications for Design-Focused Professional Doctorates of Australian Research into Professional Doctorates. In D. Durling & K. Sugiyama (Eds.), *Proceeding of the 3rd Doctoral Education in Design Conference* (pp. 77-86). Tsukuba: University of Tsukuba.

Love, T. (2003). A Fork in the Road: Systems and Design. In T. Haslet & R. Sarah (Eds.), *Proceedings of the 9th ANZSYS Australian and New Zealand Systems Conference - Monash University*. Melbourne: Monyx.

Love, T., & Cooper, T. (2003). Designing Online Information Systems for Portfolio-Based Assessment: Design Criteria and Heuristics. In E. Cohen & E. Boyd (Eds.), *Informing Science and Information Technology Education Joint Conference*. Pori: Informing Science Institute.

Cooper, T., & **Love, T.** (2002). Online portfolios: issues of assessment and pedagogy. In P. Jeffrey (Ed.), *AARE 2001: Crossing Borders: New Frontiers of Educational Research*. Coldstream, Victoria: AARE Inc.

Love, T. (2002). New directions in PhDs: online considerations. In P. Jeffrey (Ed.), *AARE 2001: Crossing Borders: New Frontiers of Educational Research* (pp. COO01346 (cdrom book)). Coldstream, Victoria: AARE Inc.

Love, T. (2002). Resolving Problems with the Foundations of PhD Education: Multiple Theoretical Perspectives in Long Thesis PhD Submissions. In A. Goody, J. Herrington & M. Northcote (Eds.), *Research and Development in Higher Education: Quality Conversations* (Vol. 25, pp. 409-418).

Canberra, ACT: Higher Education Research And Development Society of Australasia.

Love, T. (2002). *Beyond Emotions in Designing & Designs: Epistemological & Practical Issues*. Paper presented at the Design & Emotion '02, Loughborough.

Love, T. (2002). Building Better Relationships between Design Research, Design Research Education, Government, Industry and the Design Professions. In D. Durling & J. Shackleton (Eds.), *Common Ground Proceedings of the Design Research Society International Conference at Brunel University, September 5-7, 2002*. (pp. 666-676). Stoke-on-Trent: Staffordshire University Press.

Love, T. (2002). Are 'the Reflective Practitioner' and 'Learning Cycles' suitable Foundations for Theories about Designing and Design Cognition? In D. Durling & J. Shackleton (Eds.), *Common Ground. Proceedings of the Design Research Society International Conference at Brunel University, September 5-7, 2002*. (pp. 678-686). Stoke-on-Trent: Staffordshire University Press.

Tellefsen, B., & **Love, T.** (2002). Understanding designing and design management through Constituent Market Orientation and Constituent Orientation. In D. Durling & J. Shackleton (Eds.), *Common Ground. Proceedings of the Design Research Society International Conference at Brunel University, September 5-7, 2002*. (pp. 1090-1106). Stoke-on-Trent: Staffordshire University Press.

Love, T. (2002). *Complexity in Design Management: Layered System Dynamics Graphs*. Paper presented at the ANZSYS'02 'Management Approaches to Complex Systems', Mooloolaba, Qld.

Love, T. (2002). Developments in Management Information Systems and Product Design: Structural Implications and Failure Reduction. In *Proceedings of the We-B Conference 2002, E-Conomy - from Here to Where. 3rd International We-B Conference*, . Perth: Edith Cowan University.

Love, T. (2001). Addressing Information Systems Failures through Design Research. In W. Hutchinson & M. Warren (Eds.), *The Relevance of Systems Thinking in the Contemporary World: Systems in Management, 7th Annual ANZSYS Conference Proceedings* (pp. 290-298). Scarborough: We-B Research Centre, Edith Cowan University.

Love, T. (2001). Changes to Theory Making about Systems Involving People: Meta-theoretical Analysis and Brain Research. In W. Hutchinson & M. Warren (Eds.), *The Relevance of Systems Thinking in the Contemporary World: Systems in Management 7th Annual ANZSYS Conference Proceedings* (pp. 69-79). Perth: We-B Research Centre, Edith Cowan University.

Love, T. (2001). Designing Information Security for Small Businesses: Lessons from a Case Study. In W. Hutchinson, M. Warren & J. Burn (Eds.), *Survival in the E-Conomy: 2nd*

Information Warfare and Security Conference (pp. 158-164). Scarborough, WA: We-B Research Centre, Edith Cowan University.

Tellefsen, B., & **Love, T.** (2001). Constituent Market Orientation and Virtual Organisations. In S. Stoney & B. J. (Eds.), *Working for Excellence in the E-economy* (pp. 195-204). Scarborough, WA: We-B Research Centre, Edith Cowan University.

Cooper, T., & **Love, T.** (2001). Online Portfolio Assessment in Information Systems. In S. Stoney & J. Burn (Eds.), *Working for Excellence in the E-economy* (pp. 417-426). Perth: We-B Research Centre, Edith Cowan University.

Love, T. (2000). A Meta-theoretical basis for Design Theory. In D. Durling & K. Friedman (Eds.), *Doctoral Education in Design: Foundations for the Future* (pp. 45-54). Stoke-on-Trent, UK: Staffordshire University Press.

Love, T. (2000). Theoretical perspectives, design research and the PhD thesis. In D. Durling & K. Friedman (Eds.), *Doctoral Education in Design: Foundations for the Future* (pp. 237-246). Stoke-on-Trent, UK: Staffordshire University Press.

Love, T. (2000). Theoretical perspectives in the PhD thesis. How many? In D. Durling & K. Friedman (Eds.), *Doctoral Education in Design: Foundations for the Future* (pp. 261-270). Stoke-on-Trent, UK: Staffordshire University Press.

Love, T. (2000). Educating those involved in changing human futures: a more coherent programme for design education. In C. Swann & E. Young (Eds.), *Re-inventing Design Education in the University* (pp. 242-248). Perth: School of Design, Curtin University of Technology.

Love, T. (2000). New roles for design education in university settings. In C. Swann & E. Young (Eds.), *Re-inventing Design Education in the University* (pp. 249-255). Perth: School of Design, Curtin University of Technology.

Love, T. (2000). Educating e-business designers: some implications of a post-positivist theory of design cognition. In S. Stoney (Ed.), *Working for e-business: challenges of the new e-economy*. Perth: We-B Research Centre, Edith Cowan University.

Love, T. (2000). Research and Practice in the University Education of Designers. *Curtin Journal of Design*, 5, 16-20.

Cooper, T., & **Love, T.** (2000). Portfolios in university-based design education. In C. Swann & E. Young (Eds.), *Re-inventing Design Education in the University* (pp. 159-166). Perth: School of Design, Curtin University.

Love, T. (1996). Social, environmental and ethical factors: their implications for design theory. In M. A. Groves & S. Wong (Eds.), *Design for People* (pp. 199-206). Perth: Edith Cowan University.

Love, T. (1995). Systems models and engineering design theory. In W. Hutchinson, S. Metcalf, C. Standing & M.

Williams (Eds.), *Systems for the Future* (pp. 238–246). Perth Western Australia: Edith Cowan University.

Book reviews, articles, reports, working papers, patents etc. (28 items)

Love, T. (In Press). Lessons from an attack on small business by PC viruses. *Flooring*.

Love, T. (2003). Review: 'The Design Way by H. G. Nelson and E. Stolterman (2003)'. *Journal of Design Research*. (<http://jdr.tudelft.nl/>)

Tellefesen, B., & **Love, T.** (2002 (working paper)). Understanding Design as a Social Process through Constituent Market Orientation. *Love Design & Research*.

Love, T. (2001 (working paper)). *Design Research & Management Information Systems: Symbiotic Factors*. Perth: Love Design & Research.

Love, T. (2001a, Feb, 2001). *Theoretical perspectives and Perry's 5 chapter PhD thesis model*. Paper presented at the Teaching and Learning Forum 2001, Curtin University, Perth.

Love, T. (2001b). *Affective Information Systems: Contributions to IS from Design Research - We-B Research Seminar* (ppt files of working paper). Perth: We-B Research Centre, Edith Cowan University.

Cooper, T., & **Love, T.** (2001a). *Online Portfolios: Issues of Assessment and Pedagogy* (Working Paper). Perth: Love Design & Research.

Love, T., & Cooper, T. (2001). *Online Portfolio Systems in Tertiary Education: Conceptual Design Issues* (working paper). Perth: Love Design & Research.

Love, T. (2001i). *Re: the political role of (graphic?) design doctorates*, 2003, from <http://www.jiscmail.ac.uk/cgi-bin/wa.exe?A2=ind0108&L=phd-design&P=R10080&I=-1>

Love, T. (2000j). *e-government and the future*. Panel paper presented at the Working for e-business: challenges of the new e-economy, Perth.

Love, T. (1999c). *Towards an epistemologically more coherent view of design (long post)*, from <http://www.jiscmail.ac.uk/cgi-bin/wa.exe?A2=ind9912&L=drs&T=0&F=&S=&P=6139>

Love, T. (1999d). *Notes on Population 2040* (Working Report). Perth: Youth & Society Collaborative Research Team Edith Cowan University.

Love, T. (1999e). *Family Types Chart 1976 to 1996* (Excel file). Perth: Youth & Society Collaborative Research Team Edith Cowan University.

Love, T. (1999f). *Charts of Full and Part time employment based on information from Wooden 1998* (Excel file). Perth: Youth & Society Collaborative Research Team Edith Cowan University.

Love, T. (1999g). *An Overview of Australian Youth Policy from 1975 to 1999* (Working paper). Perth: Youth & Society Collaborative Research Team Edith Cowan University.

- Love, T.** (1999h). *Australia's Population in Transition: comparison between measured and stationary population profiles* (Working report). Perth: Youth & Society Collaborative Research Team Edith Cowan University.
- Love, T.** (1998b). *Social, environmental and ethical factors in engineering design theory: a post positivist approach*. Unpublished PhD thesis, University of Western Australia, Perth.
- Love, T.** (1996a). New Developments in Engineering Design Theory: Part 1. *News Bulletin Institution of Mechanical Engineers (Australian Branch), NSW.*(123).
- Love, T.** (1996b). New Developments in Engineering Design Theory: Part 2. *News Bulletin Institution of Mechanical Engineers (Australian Branch), NSW.*(124).
- Love, T., & Cooper, T.** (1994). *Comments and suggestions for change to the proposed Draft Planning Policy on the design of New Urban Centre in the City of Wanneroo* (Submission). Perth: Eco-Design.
- Cooper, T., & **Love, T.** (1993a). *Considerations for Structuring Local Permaculture Groups* (Discussion Paper). Perth: Eco-Design.
- Love, T.** (1992a). Pattern Language and Whole Farm Planning, Part 1: What is Pattern Language. *Land Management Society Newsletter*(Summer 1992).
- Love, T.** (1992b). *The Living City*. Paper presented at the City Challenge, Perth.
- Love, T.** (1992c). *Living Cities through Community Based Design*. Paper presented at the City Challenge 'Day of Action', Perth.
- Love, T.** (1991). Design for Land Management. *Land Management Society Newsletter* (Spring 1991).
- Love, T.** (1989). Aerial Distribution for seed or the like particulate matter Provisional patent 8912561 (expired). United Kingdom.

Other Activities

International organising committee for the International Design Research Society Futureground conference (2004)
 Editorial board member: Journal of Design Research.

Prizes

2003: Best paper award ANZSYS Systems conference, Melbourne, November 2003.
 2003: Best paper award Informing Science conference, Pori, July 2003.

Other research/design projects

1989-1991: Low-cost homeostatic water management for seedbeds in areas of low water availability. Lancaster, UK
 1989-1991: Research into new methods of accessing and storing solar generated heat in water. Lancaster, UK

1989-1991: Investigating extended failure characteristics of Citroen GS engine for use in 3rd World vehicles. Lancaster, UK.

1987-1989: Development of epoxy-based stabilisation of multi-storey stone buildings. Lancaster UK.

1989: Development of a prototype Hypershell-based computerised education system for telecom engineers. Lancaster, UK.

1989: Research into engine/drive train configurations. (In association with Africar International Ltd, Lancaster, UK.

1988: Research into, and provisional patent on, methods of aerially distributing pre-germinated seed in arid regions .

1987-1989: Investigation into economic environmentally-appropriate material specification for solar house for M. Rhodes, Palmente, Corsica.

1988: Research into solar still design and other alternative technology solutions (in conjunction with Sunseed Trust, Huntingdon, UK.)

1988: Design and construction of solar-heated water heating system for M. Rhodes, Palmente, Corsica.

1984-1986: Investigation and specification of lacquers and surface coatings for the interior of the Venice-Simplon Orient Express train. Lancaster, UK.

1980: Research into the effectiveness of sailing as a developmental method for Youth Work in the Fylde. Lancashire County Council, UK.

1976-1978: Research into edge-contact rolling element traction for a 200kw continuously variable transmission for Dept of Advanced Engineering, Rover Cars. Solihull, UK

1975: Research into non-logical thinking in Mathematics

1974: Development of computerised mathematical methods of functionally modelling and optimising multivariable design situations involving irregularly-related factors.

1973-1974 Development of computerised mathematical function fitting for optimising engineering design solution sets and minimising cost functions

1973-1974: Development of computerised drawing routines to assist in engineering design and analysis

1972: Development of computerised methods for cost function optimisation of mechanical and civil engineering design solutions.

Reviewer for following journals and conferences:

Design Studies

Journal of Design Research

International Journal of Project Management

International Design Journal

Journal of Art Design and Communication in Higher Education

International Design Research Society Futureground conference (2004)

6th Asian Design Conference (2003)

IDATER conference series (1999, 2000, 2001)
WAWISR conference (2001)
Higher Education Research and Development Society of
Australia conference (2001)
We-B Conference series (2000, 2001, 2002)
I-War Information Security conferences (2001)
OZCHI conference 2002
Informing Science conference 2003
ANZSYS conference (2001, 2002, 2003)
International Design Research Society Commonground
conference (2002)
Doctoral Education in Design conference series (2001, 2002,
2003)
Re-inventing Design Education in the University
conference(2001)