

CURRICULUM VITAE

Robert Samuels

QUALIFICATIONS

- 1978 **PhD** (University of Reading, UK)
- 1986 **MSc** [Env.Psych] (University of Surrey, UK)
- 1970 **Master Urban and Regional Planning** (University Cape Town, SA)
- 1967 **B.Arts** (University of the Witwatersrand, SA).

EMPLOYMENT & EXPERIENCE

Research Fellow (1986-1988)

Energy and Indoor Climate Research Group, Department of Psychology, University of Surrey, Guildford, UK.

Senior Research Fellow (1989-1994) & Senior Lecturer (1995-2006)

Faculty of the Built Environment, University of New South Wales, Sydney, Australia.

During the time of my tenure at the FBE I developed teaching and research programs focusing on **environmental psychology** (people-place relations) and **environmental sustainability** (people-place-planet relations). My aim was to promote ways of thinking that encompassed ecologically and socially sustainable development in architecture and urban design, building on the work undertaken in the UK during the periods of my PhD, MSc and other related research with leading scholars Professors Sir Peter Hall, Terence Lee and David Canter.

I supervised 15 related Doctoral theses; and 20 Graduate Projects in the Masters of Sustainable Development degree program.

I created and taught courses on “Applied Environmental Psychology” (1989-1996), “Social and Environmental Sustainability” (1990-2006), “Design Fundamentals: Environmental Experience and Design Values” (1992-2002), “Social Responsibility and Environmental Ethics” (1994-1998), “Sustainable Environments (1995-1999), “Research Methodology (1996-2004); and the postgraduate course “Human Factors: Sustainability and Habitability” (1998-2006). I also taught in design studios focused on social and ecological sustainability (1992-2005).

- As part of my responsibilities I held the following FBE positions:
 - Associate Director, SOLARCH Research Unit (1990–1995)
 - Sustainable Development Masters Committee (1998–2006)
 - Design-Theory Research Group Convenor (1998)
 - Coordinator: FBE General Education Committee &
Faculty Representative: UNSW Academic Board
General Education Committee (1997–1999)
 - Research Management Committee (1998–1999)
 - First-Year Architecture Student Coordinator (2001–2002)
 - Stream Leader: Research-Practice Stream, Architecture (2001–2003).

Research Project Leader

- I have undertaken a multitude of research projects in the last twenty years on climate-appropriate design, energy efficiency, human health, comfort and performance, and community-security and design (see attached matrix for full details).

Select projects

- Multi-year projects on Urban Renewal and Community Renewal, funded by the Australian Research Council and the Department of Housing, NSW (A\$509,000 2006-2008) - Joint Chief Investigator
- Multi-year project on Linkages between Housing, Policing and other Interventions for Crime on Public Housing, funded by Australian Housing and Urban Research Institute (A\$164,000 2001-2004) – Joint Chief Investigator
- Multi-year project on Full Spectrum Lighting, Mood and Performance at School funded by the NSW Public Works Department & Department of Education (A\$68,000 1996-2000) – Chief Investigator
- Multi-year projects on Defensible Design and Security on Public Housing Estates, and on University Campuses, funded by the NSW Department of Housing, and the Commonwealth Department of Employment, Education and Training, Canberra (A\$104,000 1994-1995) – Chief Investigator
- Multi-year project on Lighting Quality, Mood and Performance in an Office funded by the Electricity Commission of New South Wales (A\$98,000 1991-1992) – Chief Investigator
- Multi-year project on Energy Efficient Houses, and Solar Energy, funded by the Energy Research and Development Corporation with the Energy Departments of NSW, Vic, SA, WA (A\$233,000 1989-1991) – Joint Chief Investigator

Select Publications

Samuels, R. (2005), *Afterdark Design, Night Animation and Interpersonal Interaction: Towards a Community-Security Approach*, Journal of Architectural and Planning Research, Vol 22 (4) Winter, Theme: Crime Prevention Through Environmental Design – themes, theories, practice and conflict: 305-31

Samuels, R., Judd, B., O'Brien, B. and Barton, J. (2004), *Linkages Between Housing, Policing and Other Interventions for Crime and Harassment Reduction on Public Housing Estates*, Final Report, AHURI/Australian Housing and Urban Research Institute, Melbourne

Samuels, R. (1999), *Light, Mood and Performance at School: Final Report*, Department of Education and Training and Department of Public Works and Services, NSW

Samuels, R. (1996), *Lifestyle at the Edge of Chaos*, Selected Proceedings of the 14th Conference of the International Association for People-Environment Studies (IAPS), 'Evolving Environmental Ideals: Changing Ways of Life, Values and Design Practices', (Madi Gray, ed.), Kungl Tekniska Hogskolen, Stockholm ISBN 9171707565

Samuels, R. (1995), *Design and Planning for Urban Safety and Security*, Final Report, Department of Housing, NSW

Samuels, R. (1995), *Defensible Design and Security - University Campuses*, AGPS, Canberra ISBN 0 644 45902 6

Samuels, R. (1994), *Environmental Accountability: Users, Buildings and Energy*, Chapter 1, in R. Samuels & D. Prasad (eds.), *Global Warming and the Built Environment*, *op.cit.*

Samuels, R. & Prasad, D. (1994) (eds), *Global Warming and the Built Environment*, Chapman & Hall (Spon), London ISBN 0 643 05112 0

Ballinger, J.A., Samuels, R., Coldicutt, S., Williamson, T. and D'Cruz, N. (1991), *A National Evaluation of Energy Efficient Houses*, Final Report to Energy Research and Development Corporation, Project No. 1274, Solarch, UNSW

Samuels, R. (1990), *Efficiency, Comfort and Environment: The Solar Architecture Solution*, in D.J. Swaine (ed.), *Greenhouse and Energy*, 380-388, CSIRO ISBN 0 643 051120.

Professional Development Courses

1997 *Sustainable Urban Development*, Module for 'Sustainable Development and Pollution Control' Professional Development Course, FBE, UNSW

1996 *Environmental Design and Management: People and Safe-Places*, Module for the NSW Police Service 'Community Safety' Training Course, Office of Strategic Services, Policy Branch - Community Safety

1995 *Lighting In Buildings: Quality, Efficiency and Responsibility*, Module for Master of Business Technology (MBT), Graduate School/Civil Engineering, UNSW

1994 *User Needs and Lifestyles: Impact on Energy Efficiency and Natural Daylighting and User Perceptions*, Modules for 'Energy Efficient Housing Design' Development Project, Pakistan, UNCHS.

Key Conferences Convened

2005 '*Crime and Public Housing: Community and Interagency Approaches*' CityFutures Crime Seminar, 26th Sept, FBE/UNSW

1999 '*Biometeorology and Urban Climatology at the Turn of the Millennium*', World Meteorology Organisation/UNEP, 8-12 Nov, Sydney

1998 '*Design as Research*', Design-Theory Research Group, FBE/UNSW

1997 '*Emergent Paradigms in Design Education*', 10-13 July, UNSW

1994 '*Solar '94: Secrets of the Sun*', Australian and New Zealand Solar Energy Society, 30 Nov-3 Dec, UNSW.

Community Service/Development

2005 *Feedback on Research Results from AHURI 'crime, community, interagency policy' project*, Invited Seminar for Redfern-Waterloo Community Safety Taskforce

2005 *Feedback of Research Results from AHURI 'crime, community, interagency policy' project*, Invited Seminar for Dept of Housing, Greater Western Sydney Division, Parramatta

2005 *Linkages between Housing, Policing and Other Interventions for Crime and Harassment Reduction in Areas with Public Housing Concentrations*, Paper delivered at CityFutures Crime Seminar, FBE/UNSW

2002 *Personal Safety in Public Places*, Advice to Working Group on the Australian Building Code Guideline

2000 *Neighbourhood Improvement and Community Cohesion in the Waterloo Public Housing Estate* [with Judd & Zehner (FBE) & Vinson & Baldry (Soc.Work), UNSW

1999 *Integrating Environmental Responsibility in Curricula: A Guide for UNSW Faculties*, Education for Sustainability Working Party, Institute of Environment Studies, UNSW

1994 *Environmental Strategy & Environmental Code for Best Practice*, Commissioned Modules towards the 'Australian Conservation Foundation comments on Homebush Bay Olympic Village', Sydney

1992 *Home Energy Rating Scheme (HERS) for Perth: A Strategy Outline* (with Ballinger), Energy Policy and Planning Bureau and Curtin Univ., WA

1991 *An Approach to a Home Energy Rating Scheme for the Northern Territory*, Address to the Energy Ratings Scheme for Residential Buildings in the Northern Territory Workshop, Darwin, May.

RESEARCH AND PUBLICATIONS

BOOKS/MONOGRAPHS

Samuels, R. & Prasad, D. (1994) (eds), *Global Warming and the Built Environment*, Chapman & Hall (Spon), London ISBN 0 643 05112 0

Samuels, R. (1995), *Defensible Design and Security - University Campuses*, AGPS, Canberra ISBN 0 644 45902 6

Stringybark Grove: A Step towards Sustainable Housing Development, (1997), see: 'Amenity' section, 17-19, DUAP ISBN 0 731 09082 9.

BOOK CHAPTERS

Samuels, R. (1990), *Efficiency, Comfort and Environment: The Solar Architecture Solution*, in D. J. Swaine (ed.), *Greenhouse and Energy*, 380-388, CSIRO ISBN 0 643 051120

Samuels, R. (1994), *Environmental Accountability: Users, Buildings and Energy*, Chapter 1, in R. Samuels & DK. Prasad (eds.), *Global Warming and the Built Environment*, *op.cit.*

Samuels, R. (2002), *Perennial Old-City Paradigms*, in Brebbia, CA, Martin-Duque, JF and Wadhwa, LC (eds.), *The Sustainable City II: 'Urban Regeneration and Sustainability'*, 693-703, WITPress, Southampton ISBN:1853129178.

REFEREED JOURNAL ARTICLES and CONFERENCES

Samuels, R., Ballinger, JA, Coldicutt, S and Williamson, T. (1993), *Thermal Zoning in Solar Efficient Design: User Experiences and Designer Preconceptions*, *Architectural Science Review*, 16:4, 151-156, Dec

Samuels, R. (1994), *Energy Users, Energy Efficiency and Ecological Sustainability in Housing: An extract from an Australian Evaluation of Energy Efficient Houses project*, Proceedings of the 12th Annual Association of Collegiate Schools of Architecture (ACSA) Technology Conference, University of Michigan, Ann Arbor, Jan

Samuels, R. (1996), *Lifestyle at the Edge of Chaos*, Selected Proceedings of the 14th Conference of the International Association for People-Environment Studies (IAPS), 'Evolving Environmental Ideals: Changing Ways of Life, Values and Design Practices', (Madi Gray, ed.), Kungl Tekniska Hogskolen, Stockholm ISBN 9171707565

Judd, B, Samuels R. and Barton J. (2005), *The Effectiveness of Strategies for Crime Reduction in Areas of Public Housing Concentration*, Proceedings of the 2nd State of the Cities Conference: 'The Sustainability and Vulnerability of Urban Australia', 30th Nov-2nd Dec, Griffith University

Samuels, R. (2005), *Afterdark Design, Night Animation and Interpersonal Interaction: Towards a Community-Security Approach*, Journal of Architectural and Planning Research, Vol 22 (4) Winter, Theme: Crime Prevention Through Environmental Design – themes, theories, practice and conflict: 305-318.

REVIEWED RESEARCH REPORTS

Ballinger, J.A., Samuels, R., Coldicutt, S., Williamson, T. and D'Cruz, N. (1991), *A National Evaluation of Energy Efficient Houses*, Final Report to Energy Research and Development Corporation, Project No. 1274, Solarch, UNSW

Samuels, R. (1995), *Design and Planning for Urban Safety and Security*, Final Report, Department of Housing, NSW

Samuels, R. (1995), *Defensible Design and Security – University Campuses*, Final Report, Investigations and Evaluations Program 95/3, Department of Employment, Education and Training, Commonwealth of Australia

Samuels, R., Stephens, H. and Beckett, R. (1996), *Colour and Light in Schools*, Final Report, Education Branch/Schools Section and Dept Public Works Services, NSW

Samuels, R. and Ballinger, J. (1997), *Stringybark Grove Post Occupancy Evaluation, and NatHERS Energy Simulation*, Final Report, Department of Urban Affairs and Planning, NSW

Samuels, R. (1999), *Light, Mood and Performance at School: Final Report*, Department of Education and Training and Department of Public Works and Services, NSW

Samuels, R. (2000), *Light, Mood and Performance at School: Triphosphor Phase, Report #3*, DET/DPWS, NSW

Judd, B., Samuels, R., O'Brien, B. (2002), *Linkages Between Housing, Policing and Other Interventions for Crime and Harassment Reduction on Public Housing Estates*, Positioning Paper, AHURI/Australian Housing and Urban Research Institute, Melbourne [www.AHURI.edu.au]

Samuels, R., Judd, B., O'Brien, B. and Barton, J. (2004), *Linkages Between Housing, Policing and Other Interventions for Crime and Harassment Reduction on Public Housing Estates*, Final Report, AHURI/Australian Housing and Urban Research Institute, Melbourne [www.AHURI.edu.au].

INVITED PAPERS

Samuels, R. (1994), *An Environmental Design and Management Approach to Security*, Invited Paper, Fifth Australian Security Hardware and Access Control Conference: 'Security by Design', Brisbane, May

Samuels, R. (1994), *Environmental Design and Environmental Psychology: University Campus Security*, Invited Paper, First Educational Security Conference: 'Protecting People, Property and Premises', Brisbane, May

Samuels, R. (1996), *CPTED: Community Responsibility and Afterdark Design*, Invited Paper, 'Security in Government 96 Conference', Attorney Generals Department, Canberra, Nov.

CONFERENCE PROCEEDINGS

Samuels, R. (1988), *Solar Potential: The Salience of User Experiences and Evaluations of Solar Buildings*, Proceedings of the ANZSES Conference: Solar '88: 'Environmental Improvement Through Solar Energy', 7-1, Melbourne, Nov

Samuels, R. (1988), *Energy Policy, User Evaluation and Environmental Quality: The Role of Information in the Use of Nuclear and Solar Energy*, P.A.P.E.R. Journal, Sydney Univ, Aug

Samuels, R. and Ballinger, J. (1989), *Environmental Fit and Solar Efficient Architecture*, Proceedings of the ANZAScA and ANZSES Conference: 'Human Factors in Architectural Science: Solar Buildings in the 90s', 117-124, Hobart, July

Samuels, R. (1990), *Solar Efficient Architecture and Quality of Life: The Role of Sunlight in Ecological and Psychological Well-Being*, Proceedings of the 1st World Renewable Energy Congress: 'Energy and the Environment' (Sayigh/ed.), 2653-2659, Pergamon Press

Samuels, R. (1992), *Developments in Environmental Lighting: Energy Efficiency and Environmental Responsibility, Psychobiology and Social Responsibility*, P.A.P.E.R. Journal, No.8, University of Sydney

Williamson, T., Coldicutt, S., Samuels, R., Ballinger J. and D'Cruz, N. (1993), *Performance Analysis of Energy Efficient Houses in Australia*, Proceedings of the International Symposium 'Energy Efficient Buildings', 247-252, CIB Working Commission W67, Germany, March

Samuels, R. (1994), *Environmental Design and Management for Crime Prevention*, 10th Annual Conference, ANZ Society of Criminology, UNSW, Sept

Samuels, R. (1994), *Energy, Comfort, Amenity and Solar Efficient Design*, Proceedings of the 32nd Annual ANZSES Conference, 220-226, Sydney, Dec

Ballinger, J.A., Prasad, D.K., Lawson, W.R., Samuels, R. and Lyons, P. (1995), *R & D of Current Environmental Technologies in Australia*, Proceedings of Pan Pacific Symposium on Building and Urban Environmental Conditioning in Asia, 659-668, Nagoya, March

De Lorenzo, C., Laurence, T. and Samuels, R. (1997, eds.), *Emergent Paradigms in Design Education: Sustainability, Collaboration and Community*, Proceedings of the EPDE Conference, UNSW, Sydney, July ISBN 0733416020

Samuels, R. (1998), *Urban Climate and Thermal Pollution: Sustainability and Habitability in Urban Environments*, Proceedings of the First International Conference on Quality of Life in Cities: 'Issues and Perspectives', 222-243, Singapore, March ISBN 9810401264

Samuels, R. (1998), *Millennium Paradigms and 'fin de siecle' Urban Climate*, Proceedings of the 8th International Planning Society Conference and the 4th Australian Planning/Urban History Conference, '20th Century Urban Planning Experience', 771-776, UNSW, Sydney, July, (ed. Freestone) ISBN 0 7334 04553

Samuels, R. (2000), *Urban Climate Experience*, Proceedings of the 16th International Association of People and their Surroundings (IAPS) Conference, Paris, July (CDRom)

Samuels, R. (2001), *The Afterdark Paradigm; and Temporal-Spatial Mapping*, Proceedings of the 6th Annual International CPTED Conference, Brisbane, Sept, ISBN 1876878029

Samuels, R. and Judd, B. (2002), *Public Housing Estate Renewal- Interventions and the Epidemiology of Victimisation*, Proceedings of the Joint AHURI/Australian Institute of Criminology Conference 'Housing, Crime and Stronger Communities', Melbourne, May (CDRom)

Samuels, R. (2004), *Inter-Agency Crime Reduction Strategies in Public Housing Concentrations in Australia*, Proceedings of the Asia-Pacific Network for Housing Research (APNHR) Conference: 'Housing and Social Developments: Emerging Theoretical Issues in Asia Pacific', University of Hong Kong, 5-6 Feb (CDRom)

Samuels, R. (2005), *Empathetic Partnerships for Sustainable Urban Community*, Proceedings of the 'Life in the Urban Landscape' Conference, Gothenburg, Sweden, June (CDRom).

OTHER POST OCCUPANCY EVALUATION RESEARCH

Baillie, AP, Cody, C, Day, M, Griffiths, ID, Hammond S, Huber, J, and Samuels, R. (1986), *Human Factors in Domestic Gas Consumption*, Final Report to South Eastern Gas, Dept of Psychology, University of Surrey, UK

Samuels, R. and Ballinger, J.A. (1992), *Quality and Efficiency in Lighting - Social and Environmental Responsibility*, Final Report to Pacific Power, NSW

Samuels, R. (1995), *Crime Prevention Through Environmental Design: Theory and Practice*, Module for CPTED Research Report, State Rail Authority, NSW

Samuels, R. (1995), *Crime Prevention Through Environmental Design: Station CPTED Recommendations and Best Practice Model*, Module for SRA Research Report, NSW

Samuels, R. (1997), *Light and Performance: Daylight and Productivity in the Workplace: A Literature Review*, Pilkington (Australia)

Samuels, R. (1997), *Production Savings Through Daylight Glazing, Phase #1: Hobart*; (1998), *Phase #2: Melbourne*, Research Reports for Pilkington.

OTHER RESEARCH

Feasibility Study on the Establishment of an Energy Education Centre in Sydney, 1990, (with Prasad), for Pacific Power, Solarch

Effective Means of Influencing Energy Efficiency in Buildings: Targeting Builders and Designers, 1991, (with Prasad), for Pacific Power, Solarch

A Community-Security Evaluation of the Post-Olympic Village at Homebush Bay, (1997), Olympic Coordination Authority (in-confidence)

Public attitudes to nuclear power risks (with Prof Terence Lee), 1986, Central Electricity Generating Board

Household attitudes and gas consumption (with Ian Griffiths), 1986, South East Gas Board

Human Response to Fire: Eurotunnel Simulation, Strasbourg (with Prof David Canter), 1987, EuroTunnel Consortium

Comfort and Indoor Climate in Passive Solar Buildings in UK, Germany and France (with Griffiths *et al*)¹, 1987-1989, Commission for the European Communities, Brussels.

DISSERTATIONS

A Study of Interrelationships and the University of Cape Town, 1970, Masters Dissertation, Urban & Regional Planning, UCT

Role of Personal Control in Household Energy Behaviour, 1986, MSc Environmental Psychology, University of Surrey, UK

Psychology of Stress: Impact of the Urban Environment, 1978, PhD Human Geography, University of Reading, UK (supervisor: Professor Sir Peter Hall).

¹ see: Griffiths, I.D, (1989), *Field Studies of Thermal Comfort In Passive Solar Buildings*, 2nd European Conference on Architecture, Commission of the European Communities, Paris.