



# Paul Brown

artist and writer specialising in art and technology since 1968

Born 23 October 1947, Halifax, Yorkshire, England  
Residence Australia since 1988  
Citizenship Australia since 1997; European Union (Great Britain) by birth

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## Biography

Paul Brown is an artist and writer who has specialised in art, science & technology since the late-1960s and in computational & generative art since the mid 1970s. His early work involved creating large scale lighting works for musicians and performance groups (Meredith Monk, Music Electronica Viva, Pink Floyd, etc...) and he has an international exhibition record that includes the creation of both permanent and temporary public artworks dating from the late 1960s. He has participated in shows at major venues like the TATE, Victoria & Albert and ICA in the UK; the Adelaide Festival; ARCO in Spain, the Substation in Singapore and the Venice Biennale. His work is represented in public, corporate and private collections in Australia, Asia, Europe, Russia and the USA. In 1996 he won the Fremantle Print Award.

In 1984 he was the founding head of the United Kingdom's National Centre for Computer Aided Art and Design and in 1994 he returned to Australia after a two-year appointment as Professor of Art and Technology at Mississippi State University to head Griffith University's Multimedia Unit. In 1996 he was the founding Adjunct Professor of Communication Design at Queensland University of Technology.

From 1997-99 he was Chair of the Management Board of the Australian Network for Art Technology and he is a member of the Editorial Advisory Boards for LEA, the e-journal of the International Society for the Arts, Sciences and Technology (MIT Press) and the journal Digital Creativity (Routledge). From 1992 to 1999 he edited fineArt forum, one of the Internet's longest established art 'zines and he is currently Chair of the Computer Arts Society (CAS) and moderator of the DASH (Digital ArtS Histories) and CAS e-lists.

During 2000/2001 he was a New Media Arts Fellow of the Australia Council and he spent 2000 as artist-in-residence at the Centre for Computational Neuroscience and Robotics at the University of Sussex in Brighton, England. From 2002-05 he was a visiting fellow in the School of History of Art, Film and Visual Media at Birkbeck College, University of London, where he worked on the CACHE (Computer Arts, Contexts, Histories, etc...) project and from 2005-08 he was visiting professor and artist-in-residence in the Dept. of Informatics at the University of Sussex where he worked on a project to evolve robots that can draw.

## Artist's Statement

During my 40-year career as an artist my principal concern has been the systematic exploration of surface. Since 1974 my main tool has been the computational and generative process. I have established a significant international reputation in this field of work and was recently described by Mitchell Whitelaw as one of the pioneers of a-life art (**Metacreation - Art and Artificial Life**, MIT Press, 2004, pp.146, 148-152).

My work is based in a field of computational science called Cellular Automata or CAs. These are simple systems that can propagate themselves over time. CAs are part of the origins of the discipline known as Artificial Life or A-life. I have been interested in CAs and their relationship to tiling and symmetry systems since the 1960's. Over the past 30 years I have applied these processes to time-based artworks, prints on paper and large-scale public artworks.

In my artwork I attempt to create venues that encourage the participant to engage both visually and physically with the work. Because my work emerges (in the computational sense) from game-like processes I include elements of play in order to capture and sustain the participant's attention.

Rather than being constructed or designed, these works "emerge". I look forward to a future where computational processes like the ones that I build will themselves make artworks without the need for human intervention. The creation of such processes is something that has always fascinated me.

An in depth description of my working methods is contained my chapter **Stepping Stones in the Mist** in the book **Creative Evolutionary Systems** edited by Peter J. Bentley and David W. Corne, Morgan Kaufman August 2001 and which is also on my website:

<http://www.paul-brown.com/WORDS/STEPPING.HTM>

## Education

- 1977-79 Slade School of Fine Art, University College London  
HDFa (Lond.) Computing and Experimental, 1979 - *Eq. MFA - a terminal qualification*
- 1974-77 Faculty of Art & Design, Liverpool Polytechnic  
BA (Hons I) Fine Art (Sculpture) specialism in computing, 1977
- 1965-68 Manchester College of Art & Design
- 1959-65 Burnage Grammar School, Manchester

## Employment

- 2009- Visiting Professor, Centre for Computational Neuroscience and Robotics, School of Informatics, University of Sussex, Brighton, England
- 2009 Visiting Researcher and Artist in Residence, compArt project, Department of Computer Science, University of Bremen, Germany, 12 January - 27 February
- 2005-08 Visiting Professor, DrawBots Project, (Computational Intelligence, Creativity and Cognition: A multidisciplinary investigation), Centre for Computational Neuroscience and Robotics, School of Informatics, University of Sussex, Brighton, England
- 2005-06 Artist-in-Residence, Faculty of Art and Design, Monash University, Melbourne, Australia, 12 December - 24 February
- 2002-05 Visiting Research Fellow, CACHe Project (Computer Arts, Histories, Contexts, etc...), School of History of Art, Film and Visual Media, Birkbeck College, University of London
- 2002 Lecturer in New Media Technology & Theory, Communication Design Program, Academy of the Arts, Queensland University of Technology, part-time
- 2000-01 New Media Arts Fellow, Australia Council for the Arts, New Media Arts Fund
- 2000 Artist-in-Residence/Visiting Scholar, Centre for Computational Neuroscience and Robotics, School of Cognitive and Computing Sciences, University of Sussex, Brighton, England
- 1999 Guest Artist, Australian Network for Art and Technology, National Summer School
- 1998-99 Artist-in-Residence, Queensland Sciencecentre, position supported by the New Media Arts Fund of the Australia Council for the Arts
- 1997-99 Lecturer in New Media Technology History & Theory, Communication Design Program, Academy of the Arts, Queensland University of Technology, part-time

- 1997 Lecturer in the Future of Electronic Imaging, Graduate Program, Queensland College of Art, Griffith University, Semester 1, part-time
- 1996- Freelance Artist and Writer
- 1996 Founding Adjunct Professor of Communication Design, Communication Design Program, Academy of the Arts, Queensland University of Technology, Semester 1
- 1995 Lecturer in Multimedia, Southern Cross University, Semester 2, part-time
- 1995-97 Lecturer in the History of Electronic Imaging, Graduate Program, Queensland College of Art and Design, Semester 2, part-time
- 1995 Artist in Residence, James Cook University, Winter School
- 1994-95 Consultant in Multimedia and Network Publishing, Griffith University, Division of Information Services
- 1992-94 Professor of Art and Technology, Mississippi State University, USA
- 1991-92 Freelance Consultant in New Media Arts and Technology. Clients included: Australian Film, Television and Radio School; Design Editorial (Australia); Niche Publishing (Australia); Centaur Publishing (United Kingdom)
- 1990 Guest Artist, California State University, Annual Summer School.
- 1990 Creative Director, Advanced Computer Graphics Centre, Royal Melbourne Institute of Technology.
- 1990 Guest Artist, Australian Network for Art & Technology, Annual Summer School
- 1989-90 Consultant on Art & Technology, Adelaide International Arts Festival
- 1988-89 Director, Computer Image Program, Swinburne Institute of Technology
- 1986 Visiting Research Fellow, Chisholm Institute of Technology, School of Art & Design, Mid-year
- 1984-87 Principal Lecturer (Eq. Associate Professor) in Computer Aided Art & Design, Faculty of Art & Design, Middlesex Polytechnic (now Middlesex University) and:
- ~1986-87 Founding Head, The Centre for Advanced Studies in Computer Aided Art & Design
- ~1985-87 Founding Head, The National Centre for Computer Aided Art & Design
- 1984-87 Director, Paul Brown Associates Ltd.
- 1980-84 Director and Co-founder, Digital Pictures Ltd., a computer animation facility
- 1979-80 Freelance Computer Graphics Consultant. Clients included:  
Union Oil Co. (GB) Ltd.; EMI Electronics Ltd.; Commercial Union Ltd.; Dicol Ltd.; Claessens International BV. (Netherlands)
- 1974-79 *Education (see above)*
- 1968-74 Freelance Artist and Consultant, Specialising in multimedia performance and audiovisual effects for music, theatre and film
- 1969-74 Visual Director, The Theatre of Mixed Means, multimedia performance group, Liverpool, England
- 1968-70 Creative Director, Nova Express Lightshow, Manchester & Liverpool, England

## **Consultancies, Professional Development and Service**

- 2008- Chair, Management Board, Computer Arts Society, a British Computer Society Specialist Group
- 2008-09 External Examiner, PhD by Mike Leggett, University of Technology, Sydney, Australia
- 2008-09 Member, International Advisory Committee, Media Art History 09 - Re:live, Third International Conference on the Histories of Media, Art, Science, Melbourne 26-29 November 2009
- 2008-09 Member, Programme Committee, 7th European Workshop on Evolutionary and Biologically Inspired Music, Sound, Art and Design, Tübingen, Germany, 15-17 April 2009
- 2008-09 Member, Programme Committee, LCEA09 Completing the Circle, BCS London, 19 January 2009
- 2008 Member, Art Show Jury, SIGGRAPH Asia, Singapore, 8-11 December
- 2007-08 External Examiner, PhD by Gail Kenning, University of New South Wales, Australia
- 2007-08 Member, Programme Committee, ISEA 08, the International Symposium on Electronic Arts, Singapore, 25 July - 3 August
- 2007-08 Co-Chair with Jon McCormack, Arts Program, Computational Aesthetics 2008, CAe08, Lisbon, Portugal, 18-20 June
- 2007-08 Member, Program Committee, 6th European Workshop on Evolutionary and Biologically Inspired Music, Sound, Art and Design", Naples, Italy, 26-28 March

- 2007 Member, Review Panel, GRAPHITE 2007, Perth Australia, 1-4 December
- 2007 Member, Review Panel, Global Eyes, SIGGRAPH 2007 Art Show, San Diego, 5-9 August
- 2007 Guest Editor, PAGE 64 – Shrewsbury Darwin Summer Symposium Issue, the bulletin of the Computer Arts Society, Northern Hemisphere Summer
- 2007 Curator, Batteries Not Included: Mind as Machine?, Darwin Summer Symposium, Shrewsbury, UK, 13 July –and–
- 2007 Chair, Jury, The Whittingham Riddell Shrewsbury Open Art Exhibition 2007, 14 July – 2 Sept
- 2006-07 Guest Co-Editor with Janis Jeffries, **Computational Models of Creativity in the Arts**, a special issue of Digital Creativity, Vol. 18, No. 1, Swets & Zeitlinger, April
- 2006-07 Member, International Advisory Board, re:place 2007: the Second International Conference on the Histories of Media Arts, Sciences and Technologies, Berlin, Oct 4-7 2007
- 2006-07 Member, Program Committee, ACM Creativity & Cognition 2007, Washington DC, USA, 13-15 June
- 2006-07 Member, Program Committee, 5th European Workshop on Evolutionary Music and Art, EvoMusArt, 11-13 April, 2007, Valencia, Spain
- 2006-07 Member, Advisory Panel 7th Digital Arts and Culture conference – The Future of Digital Media, 15-18 September 2007, Perth, Australia
- 2006- Founder and Moderator, the Computational Models of Creativity in the Arts [CMCA] e-list
- 2006 Convenor and Co-Chair with Janis Jefferies, Computational Models of Creativity in the Arts, workshop at Goldsmiths College, University of London, 16-17 May. Included an evening event:  
– Creative Cyborgs, curated by BLIP (Jon Bird and Alice Eldridge) on behalf of the Computer Arts Society, Dana Centre, Science Museum, London, 16 May
- 2006 Guest Editor, PAGE 62 – the bulletin of the Computer Arts Society, special CACHe final report issue, spring 2006
- 2005-06 Chair, Art Show Papers Committee, SIGGRAPH 06, Boston, USA, 30 July – 3 August 2006
- 2005-06 Chair, Management Board, Computer Arts Society, a British Computer Society Specialist Group
- 2005 Co-Chair with Ernest Edmonds, Generative Arts Practice 2005 Conference, University of Technology Sydney, 5-7 December
- 2005 Chair, Art Show, Third Iteration Conference, Monash University, Melbourne, 30 November – 2 December
- 2005 Consultant, ARC Funding Preparation, the Centre for Electronic Media Art, Monash University, Melbourne
- 2005 Member, Interactive Mind Strategic Initiative, Arts and Humanities Research Council (AHRC), UK
- 2005 Guest Co-Editor with Catherine Mason; **Re-Searching our Origins**, a special two-part issue of Leonardo Electronic Almanac (LEA), MIT Press, Vol. 13, Nos. 4 & 5 April & May
- 2005- Member, Live Algorithms for Music Initiative Network, Goldsmith's College, University of London, The Engineering and Physical Sciences Research Council (EPSCR), UK
- 2005-06 Member, Program Committee, Artificial Intelligence in Music and Art, a Special Track of the 19th International FLAIRS 06 Conference, Melbourne Beach, Florida, 11-13 May
- 2005-06 Member, Program Committee, 4th European Workshop on Evolutionary Music and Art, 9th European Conference on Genetic Programming, 2006, Budapest, Hungary, 10-12 April
- 2005-06 Member, Designing for the 21st Century Initiative Network, The Centre for Arts Research, Technology and Education (CARTE), University of Westminster, the Arts and Humanities Research Council (AHRC) & Engineering and Physical Sciences Research Council (EPSCR), UK
- 2004-05 External Examiner, PhD by Sam Wolff, Sussex University, Brighton, England. PhD Awarded February 2005
- 2004-05 Co-Chair, stream on Retrospectives in Creative Practice and Research, ACM Creativity and Cognition 5, London, 12-15 April 2005
- 2004-05 Member, International Advisory Board, REFRESH! First International Conference on the Histories of Media Art, Science and Technology, Banff New Media Institute, Canada, 28 Sept – 3 Oct 2005
- 2004-05 Program Committee, 3rd European Workshop on Evolutionary Music and Art, Lausanne, Switzerland 30 March – 1 April 2005
- 2004-05 Program Committee, Artificial Intelligence in Music and Art, a special Track of the 18th International FLAIRS Conference, Clearwater Beach, Florida, 16-18 May 2005
- 2004- Founder and Moderator, The Digital ArtS Histories [DASH] e-list

- 2004- Webmaster, Computer Arts Society
- 2004-05 Member, Management Committee, Computer Arts Society
- 2004 Re-founder Member, the Computer Arts Society, Spring 2004
- 2004 Guest Editor, PAGE 57 - the bulletin of the Computer Arts Society, special CACHe issue, spring 2004
- 2003- Editorial Advisory Board Member, Leonardo Electronic Almanac (LEA) - the e-journal of the International Society for Art Science and Technology (ISAST). MIT Press
- 2003-04 Member, Art Show Jury, SIGGRAPH 04, Los Angeles, 8-12 August 2004
- 2003-04 Member, Educators Program Committee, SIGGRAPH 04, Los Angeles, 8-12 August 2004
- 2003-04 Advisory Committee, Incubation 3, Nottingham Trent University, 12-14 July 2004
- 2003-04 Program Committee, 2nd European Workshop on Evolutionary Music and Art, Coimbra, Portugal, 4-7 April 2004
- 2003- Member, Advisory Group and Assessor, Arts Council of England (ACE) & Arts and Humanities Research Board (AHRB), Science & Art Fellowships, UK
- 2002-03 Guest Editor, **Generative Computation and the Arts**, a special issue of Digital Creativity, Vol. 14, No. 1, Swets & Zeitlinger, April
- 2002-05 Member, Steering Group, trAce/NESTA Writers for the Future project
- 2002 Jury Member, Art and Animation Show, COMGRAPH 2002, Singapore, June
- 2002 Advisory Committee, Creativity and Cognition 2002, Loughborough, UK, October 14-16
- 2001 Jury Member, Art and Animation Show, COMGRAPH 2001, Singapore, June
- 2000- Executive Editor, fineArt forum, the Network News Service of the Art, Science and Technology Network (ASTN), Paris, France.
- 1999 Member, Reference Group, Without Walls?; Cultural Organisations beyond the Millennium, State Library of Queensland, Brisbane, Australia, November 3
- 1999 Member, Virtual Triennial & Screen Culture Advisory Panel, Third Asia Pacific Triennial of Contemporary Art, Queensland Art Gallery, Brisbane, Australia
- 1999 Member, International Advisory Committee, Creativity & Cognition 99, Loughborough, England
- 1999 Member, Reference Group, InSEA 30th World Congress, 21-26 September, Brisbane, Australia
- 1999 Member, Reference Group, Artex 99, 18-20 July, Brisbane, Australia
- 1999 Member, Advisory Committee, Visual Arts Experience Week, Flying Arts Inc.
- 1999 Member, QLD Coordinating Committee, National Science Week.
- 1999 Peer Adviser, New Media Arts Panel, Australia Council for the Arts
- 1999 Consultant, Arts Queensland Multimedia Arts Strategy, Queensland State Government, Australia
- 1998-99 Member, Management Board, Multimedia Arts Asia Pacific (MAAP)
- 1998 Founding Chair, Management Board, Multimedia Arts Asia Pacific (MAAP)
- 1998 Consultant, Memories of the Future, Making Spaces Association & Queensland University of Technology
- 1998 Jury Member, National Digital Arts Awards, IMA, Brisbane, September.
- 1997- Member, Editorial Advisory Board, Digital Creativity, Routledge
- 1997-1999 Member, Management Board, Institute of Modern Art (IMA), Brisbane.
- 1997-1999 Chairperson, Management Board, Australian Network for Art and Technology (ANAT)
- 1997 Jury Member, Computer Animation Festival, ACM SIGGRAPH 97, Los Angeles, USA
- 1997 Jury Member, Flash Awards, Melbourne Festival
- 1996 Consultant on New Media Arts and Technology, Crafts Council of Queensland.
- 1996-97 Consultant on New Media Arts and Technology, Flying Arts Inc.
- 1996-97 Advisory Board Member, Queensland Multimedia Arts Centre, Brisbane.
- 1996 Consultant, The Mackay Regional Heritage Network Project, Museums Australia (QLD) and Commonwealth Dept. of Communication and the Arts.
- 1995-97 Member - 1996 Interim Chair, Art and Technology Advisory Subcommittee, Queensland Office of Arts and Cultural Development
- 1995-96 Member, Multimedia Task Force, Arts Training Queensland

- 1995-96 Australia & New Zealand Representative, The 23rd International Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH 96, New Orleans August 1996.
- 1995-96 International Advisory Board Member, the Seventh International Symposium on Electronic Arts ISEA 96, Rotterdam, 16-20 September 1996
- 1995-96 Consultant, Australia's Youth Arts and Culture Site on the World Wide Web, Contact Youth Theatre, Inc., Brisbane, Australia
- 1995 Guest Editor, Special Issue on **Art & Technology in Australia**, YLEM Newsletter, Jan-Feb 1995, Vol. 16, No. 2
- 1995 Course Development Consultant, BA Communication Design, Academy of the Arts, Queensland University of Technology
- 1994-95 International Advisory Board Member, the Sixth International Symposium on Electronic Arts ISEA 95, Montreal
- 1994-95 Australia & New Zealand Representative, The 22nd International Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH 95, Los Angeles August 1995
- 1994-03 Editorial Advisory Board Member, Leonardo - the journal of the International Society for Art Science and Technology (ISAST). MIT Press
- 1994-99 Advisory Board Member, Queensland University of Technology, Academy of the Arts
- 1994 Course Planning Committee Member, - Graduate Diploma Electronic Design, Queensland College of Art, Griffith University
- 1994 Course Planning Committee Member - MA Electronic Publishing, Faculty of Humanities, Griffith University
- 1993- Board Member, Art, Science and Technology Network (ASTN), Paris, France
- 1993 Member, University Television Center Advisory Committee, Mississippi State University
- 1992-99 Editor, fineArt forum, the network news service of the Art, Science and Technology Network (ASTN), Paris, France
- 1992-97 Correspondent, The Newsletter of the Inter-Society for the Electronic Arts, Amsterdam, The Netherlands
- 1991-92 Member, Organizing Committee, 5<sup>th</sup> International Conference on Engineering Computer Graphics and Descriptive Geometry, Melbourne, 17-21 August
- 1990-92 Committee Member for On-Line Art, SIGGRAPH 92 Art Show, Chicago.
- 1990-92 Advisory Committee Member, Victorian Centre for Photography
- 1990 Member, Teaching Computer Graphics in an Art Design Environment, an intensive workshop for 15 invited participants at SIGGRAPH 90, Dallas
- 1989-90 Committee & Jury Member, SIGGRAPH 90 Art Show, Dallas
- 1989-90 Chair, Art & Video Program Committee, AUSGRAPH 90, Melbourne, Australia
- 1989 Guest Editor, AUSGRAPH Newsletter, Melbourne, May
- 1988-89 Committee Member, AUSGRAPH 89 Film & Video Show
- 1988-90 Committee Member, Australasian Computer Graphics Association, Victorian Division
- 1988 Editor, Melbourne Computer Graphics Forum Newsletter
- 1988 Convenor and Chair, Media Technology: the Creative Perspective, Computer Image Program, Swinburne Institute of Technology, 20 September
- 1988 Nominator: Computer Graphics, Creative Futures, Direction Magazine, Hamilton's Gallery, London, 16-21 May
- 1987-88 Committee Member, ACM British Chapter
- 1987 UK and New Technology Representative, European Community MEDIA Working Party on the Future of the Film & Television Industry in Europe
- 1986-88 Founding Chair, The Assoc. for Computing in Art & Design Education (ACADE - UK)
- 1986-88 Founding Chair, ACM SIGGRAPH London Local Group
- 1986-88 Editorial Consultant, Computer Images Magazine
- 1986-87 Consultant, Readers Digest Association, advice on Micro-CAD Systems
- 1986-87 Specialist Adviser in Computer Aided Art & Design. The Council for National Academic Awards (CNA - UK)

- 1986 Consultant, Airship Industries/IMAGINE, creation and management of a team to design hardware and software for the "Skysign" - a 4 x 12 metre video display to be hung on the side of airships
- 1985-90 Correspondent, Pixel - the Computer Animation News People Inc. (Canada)
- 1985-90 Supervisor : MPhil/PhD research program by Alex King, Dorset College: "An investigation into aspects of the user interface for computer animation in three dimensions"
- 1985-88 Supervisor: MPhil/PhD research program by Keith Waters, Middlesex Polytechnic: "Computer Synthesis of Expressive Facial Animation". PhD awarded September 1988
- 1985-88 Editor, London Computer Graphics Forum monthly newsletter
- 1985-87 External Examiner: PgDip/MA in Graphic Design and Computers, St Martins School of Art
- 1984-86 Member, Board of Directors, London New Technology Network Ltd.
- 1984-85 Consultant, Digital Pictures Ltd. Computer animation production and research
- 1984 Judge - First UK Computer Picture of the Year Competition '84, CADCAM International, held at CAD84 international conference
- 1984 Member of advisory committee and judge - Commodore International Computer Art Challenge, Granard Communications Ltd. (Commodore International Ltd.)
- 1984 Guest Editor, PAGE, the bulletin of the Computer Arts Society, #46, spring
- 1984- Consultant and adviser on new media to several Further and Higher Education colleges including:  
 Arts Training Queensland (Queensland TAFE)  
 Australian Film, Television and Radio School  
 Bourneville College of Art & Design  
 California State University, Los Angeles  
 Chisholm Institute of Technology  
 Cornwall College  
 Duncan of Jordanstown College of Art  
 Grays School of Art  
 Gloucester College of Art & Technology  
 Queensland University of Technology, Academy of the Arts  
 Royal College of Art  
 Southwark College of Art & Technology  
 West Coast University, Los Angeles
- 1984 Advisory Committee Member, Computer Graphics '84, Online Conferences Ltd.
- 1984 Judge - 1984 International Computer Animation Film Festival, Online Conferences Ltd.
- 1983 Judge - 1983 International Computer Animation Film Festival, Online Conferences Ltd.
- 1982-88 Council Member, Research Into Lost Knowledge Organisation (RILKO)
- 1980-83 Honorary Research Fellow, Slade School of Fine Art, University College London
- 1978-82 Exhibitions Officer, Computer Arts Society

## Book and Editorial Reviews

- 1982- Book reviews on new media arts and technology, computer graphics, computer aided design and artificial intelligence have appeared in magazines and journals including: CADCAM International, CILECT Newsletter, Computer Graphics Technology, Computer Systems, Creative Review, Creative Design, Graphics World, Computing - the Magazine, Times Higher Education Supplement, Media Information Australia, MacNews Australia, 21.C and others as listed in **Publications**
- 1985- Editorial and technical reviewer for: The British Computer Society, ACM SIGGRAPH, The European Association for Computer Graphics, The Australasian Computer Graphics Association, The International Society for the Arts, Sciences and Technology, The Inter Society for the Electronic Arts (ISEA), Digital Creativity, Leonardo, Media Information Australia, Swets & Zeitlinger - and other conferences and journals as listed in **Service**

## Professional Memberships

- 2008- Member, British Computer Society (MBCS)
- 2000- Member, ACM Special Interest Group in Computer Human Interface (ACM/SIGCHI - USA)
- 1996- Member, Print Council of Australia
- 1996-98 Member, Queensland Web Builders Association (Q-Web, Australia)

- 1996-98 Member, Queensland Multimedia Arts Centre (QMAC, Australia)
- 1996-98 Member, Queensland Writers Centre (Australia)
- 1997- Member, Crafts Queensland (Australia)
- 1996- Member, Queensland Artworkers Alliance (QAA, Australia)
- 1995-98 Member, Australian Graphic Designers Association (AGDA, Australia)
- 1994- Member, Institute of Modern Art (IMA, Australia)
- 1994- Member, National Association for the Visual Arts (NAVA, Australia)
- 1992- Member, YLEM, Artists using Science and Technology (USA)
- 1988-92 Member, Australasian Computer Graphics Association (ACGA - Australia)
- 1988-00 Member, National Computer Graphics Association (NCGA - USA)
- 1988-00 Affiliate, IEEE Computer Society (USA)
- 1988- Member, Australian Network for Art and Technology (ANAT)
- 1988- Member, International Society for Art, Science and Technology (ISAST - USA)
- 1986- Member, ACM Special Interest Group on Graphics (ACM/SIGGRAPH - USA)
- 1986- Member, Association for Computing Machinery (ACM - USA)
- 1984-88 Member, Designers and Art Directors Association (D&AD - UK)
- 1982-88 Member, European Association for Computer Graphics (Eurographics)
- 1977- Member, Computer Arts Society (CAS)

## Solo Exhibitions

- 2006 4<sup>16</sup>, Monash University, Faculty of Art & Design, Melbourne, Australia, February
- 1999 Alien Spaces, Queensland Sciencentre, Brisbane, April - June, part of CyberVision
- 1998 Alien Spaces, Substation Gallery, Singapore, 12-24 September, part of Singapore's SeptemberFest and Multimedia Arts Asia Pacific MAAP 98, Brisbane, Australia
- Alien Spaces, Logan Regional Art Gallery, May-June, part of Australian National Science Week
- 1997 Alien Spaces, Gilchrist Gallery, Brisbane, Australia, May-June, part of EMEDIA 97
- 1979 Artist and Computer, Denman Library, Retford, UK, 3-31 March
- 1978 Modulus (8): A Cycle of Painting for the New Year, Bartlett Gallery, University College London, UK, 29 January - 9 February

## Selected Group Exhibitions

- 2008 CYNETart, 12<sup>th</sup> International Festival for Computer-Based Art, Kunsthhaus Dresden, Germany, 20 October - 16 November
- Imaging by Numbers: A Historical View of the Computer Print, Block Museum, Northwestern University, Evanston, Illinois, USA, 18 January - 6 April
- 2007 ArCade V - international exhibition of electronic prints, John Curtin Gallery, Perth, Australia, 12 - 30 September
- Artist Makes Video - art rage survey 1994-1998, DELL Gallery, Queensland College of Art, Australia, 20 June to 22 July
- Gamut II, 4<sup>th</sup> Novosibirsk International Festival, Russia, 10 May - 10 June
- Centre of the Creative Universe: Liverpool and the Avant Garde, TATE Liverpool, England, 20 February - 9 September (the Great Georges Project archive)
- 2006 Conrad Jupiters Art Prize 06, Gold Coast City Art Gallery, Australia, 18 November-28 January 07
- Canariasmediafest06, Las Palmas, Gran Canaria, 31 October - 4 November
- Intersections, SIGGRAPH 06 Art Show, Boston, USA, 30 July - 3 August, invited
- Prints Now: Directions & Definitions, Victoria & Albert Museum, London, 24 May - 26 November
- Creative Cyborgs, curated by BLIP (Jon Bird and Alice Eldridge) on behalf of the Computer Arts Society, Dana Centre, Science Museum, London, 16 May
- Swan Hill Print and Drawings Awards, Swan Hill, Victoria, Australia, 5 May - 25 June
- The Harries 2006 National Digital Art Award, QLD Health Skills Development Centre/IDAA, QUT Art Museum, Brisbane, 4 May - 4 June, finalist

- Artists as Programmers, 2006 International Digital Art Awards, QUT Art Museum, Brisbane, 4 May – 4 June, and tour
- Project 3, Adelaide Festival, 3-19 March
- Bits in Motion, Early British Computer Generated Art Film, National Film Theatre, London, 7 March
- 2005 International Digital Art Awards, Margaret Laurence Galleries, Melbourne ??, also tour: Academy Gallery, University of Tasmania, 1-22 April; QUT Cultural Precinct, ?? May, Invited Artist
- The Harries 2005 National Digital Art Award, QLD Health Skills Development Centre/IDAA, finalist
- The Artworkers Award, Queensland Artworkers Alliance, Brisbane ?? October, shortlisted
- Summer of Love: Art of the Psychedelic Era, TATE Liverpool, England, 27 May – 25 September (the Nova Express Lightshow archive)
- generative-x, OneDotZero9, ICA, London, England, 27 May – 30 June
- ArCade IV, Novosibirsk State Art Museum, Russia, 20 April – 5 May
- Transfigure/Body, The Block Gallery, Brisbane, 7-30 April, an ACMI touring show
- 2004 Accidental Cinema - Chance Operations in Film and Digital Media, Brighton Cinematheque, 2 November
- Blip@Newlyn, Newlyn Art Gallery, Cornwall, England, 26-30 October
- Science Meets Art, Queensland State Parliament House, 28 September – 8 October
- Zenith: emedia and digital works, Bribe Island Community Arts Centre, 18 Sept – 6 Oct 2004
- Big Blip 04, Sallis Benney Theatre, Brighton, 10 – 11 September 2004
- Writing the Collection, John Curtin Gallery, Curtin University of technology, Perth, Australia, 25 June – 8 August 2004
- 2003 TRANSFIGURE, Australian Centre for the Moving Image (ACMI), Melbourne, Australia, December 2003 – May 2004
- 2002 ARTE.RED 2002: ARCO, Madrid, Spain, February
- Arcade III, James Hockey Gallery, The Surrey Institute of Art & Design, UK, 14 January – 13 March
- 2001 Under\_score: Next Wave Down Under Festival, Brooklyn Academy of Music, New York, USA, October 2001-June 2002
- Microwave International Media Art Festival 2001, Hong Kong, September 2001
- INFOComm, Las Vegas, USA, June 2001
- Paris/Berlin International Meeting, Berlin, Germany, 6-17 June 2001
- Wallpaper, Powerhouse Centre for the Arts, Brisbane, May 5 – June 11
- Arcade III, Glasgow, Scotland, April
- ACMI: Beyond Cyberspace, San Jose, USA, March 10-14
- Loom, Craft Victoria, Melbourne, 25 January – 17 February.
- 2000 Vida3/Life3, Madrid, Spain, October, Honourable Mention
- Loom, Crafts South, Adelaide, 10-26 November.
- National Works on Paper, Mornington Peninsula Regional Gallery, November
- 25th Shell Fremantle Print Award, Fremantle Arts Centre, Australia, 2 Sept. – 8 Oct.
- John Lansdown Inaugural Multimedia Prize, EUROGRAPHICS 2000, Interlaken, Switzerland, 20-25 August 2000, Honourable Mention
- Bridge to the Future, International Print Triennial, Krakow, Poland, September (toured to Nurnberg) –and–
- World Award Winners Gallery, International Print Triennial, Krakow, Poland (toured to Katowice and Czestochowa)
- Art Rage: Artworks for Television, Perth Institute for Contemporary Art (PICA), Australia, 6 July – 13 August 2000.
- Digital Electronic Art Exhibition, Gertrude Posel Gallery, Johannesburg, South Africa, July 10-29. A part of the Urban Futures Cultural Events Program
- SIGGRAPH 99 Travelling Art Show, Mississippi State University Gallery, Jan-Feb
- 1999 Festivity, Trevenen House Gallery, Brisbane, December – February 2000

- Process Philosophies, First Iteration Conference, Monash University, Melbourne, Australia, 1-3 December 1999
- SIGGRAPH 99 Travelling Art Show, Santa Monica Community College Gallery, Nov-Dec
- National Works on Paper, Mornington Peninsula Regional Gallery, November
- 28th Montreal International Festival of New Cinema and New Media, Canada, October
- SIGGRAPH 99 Travelling Art Show, Sausalito Arts Festival, September
- 24th Shell Fremantle Print Award, Fremantle Arts Centre, August
- technOasis, ACM SIGGRAPH 99 Art Show, Los Angeles, USA, August
- GAMUT, Colville Place Gallery, London, England, 9 July - 28 August
- GAMUT, CADE 99, Teeside, England, April
- WYSIWYG, University Art Gallery, CalState Los Angeles, April
- 1998 ArCade 2, 5th Biennale of Graphics, Skalingrad, Kenigsberg, Russia, Sept-November
- Toowoomba Biennial Art Award, Toowoomba Regional Gallery, Sept 1998, Acquisition
- National Works on Paper, Mornington Peninsula Regional Gallery, August
- 23rd Shell Fremantle Print Award, Fremantle Arts Centre, August
- Touchware, ACM SIGGRAPH 98 Art Show, Orlando, USA, July
- Sapporo International Print Biennale, Japan, April, Sponsors' Prize
- ArCade 2, State Art Gallery, Novosibirsk, Siberia, April
- System C, Carbon Based Studios, Brisbane, Australia, January
- 1997 Universal Languages, Gilchrist at the Cannery, Brisbane, November
- Logan Art Awards, Logan Regional Gallery, October
- IdN Design Awards, Hong Kong, September, Finalist
- Australian Printmedia Awards, Casula Powerhouse, September, Acquisition
- 22nd Shell Fremantle Print Award, Fremantle Art Gallery, August
- ArCade II, Brighton, UK January and UK tour:  
 Derby, April 1997; Kensington and Chelsea College, May 1997; Stoke City Museum and Gallery, June/July 1997; Edinburgh, September 1997; Dundee, November
- 1996 Logan Art Awards, Logan, Australia, October.
- 21st Shell Fremantle Print Award, Fremantle, Australia, August, First Prize - Purchase Award
- Sequinz CD-ROM, Artlink - Art in the Electronic Landscape, special issue, July 1996
- Pseudo, Princess Theatre, Woolloongabba May 13-14 2006 - a part of the Brisbane Fringe Festival
- Stanthorpe Arts Festival, Stanthorpe, Australia, April 1996
- 1995 Logan Art Awards, Logan, Australia, October 1995
- ISEA 95, Montreal, Canada, September 1995
- International Computer Artists, University of Vermont, 30 August - 15 September
- ArCade - computer-based fine art prints, Brighton, UK, April 1995 (and UK tour 95-97)
- Founding Show, YLEM's Art on the Edge WWW Internet gallery, May 1995.
- Digital Shifts, National Digital Art Awards, Zero One conference, Noosa Gallery, Australia, February, also shown at the Institute of Modern Art, Brisbane, Australia, April 1995
- Recent Works in Electronic Media, Queensland University of Technology, Academy of the Arts/ANAT, Brisbane, Australia, January 1995
- 1994 Intersections, University of New South Wales, September 1994
- ACM SIGGRAPH 94 - the CD-ROM, The 21st International Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH 94, Orlando, USA, 1994
- Image Making with New Technology, Studio San Giuseppe, Mount Art Gallery, Cincinnati, USA, 16 January - 27 February
- 1993 Mississippi Universities Art Faculty, Meridian Museum of Art, MS, USA, 6 November - 12 December 1993
- Artist's Slide Show, Fourth International Symposium on Electronic Art, Minneapolis, USA, November -and-

- World Wide Web Installation, Fourth International Symposium on Electronic Art, Minneapolis, USA, November
- 1992 Emphasis Art, Mississippi State University Gallery, USA, September  
New Art Exhibit, the CyberSpace Gallery, Santa Monica, CA, USA, 6 December 1992 - 28 February 1993
- 1991 Reconfiguring the Media Image, Australian Video Festival, Sydney, Australia
- 1988 First International Symposium on Electronic Art, Art Show, Rotterdam, The Netherlands, 24 September - 1 October
- 1986 ACM SIGGRAPH 86 Art Show, Dallas, USA
- 1984 ACM SIGGRAPH 84 Electronic Theatre, Minneapolis, USA  
Computer Festival, Cultural Centre de Meervaart, Amsterdam, Holland  
Technology and Man, Stockholm, Sweden
- 1981 International Festival of Electronic Music, Video and Computer Art, Brussels, Belgium
- 1981-85 Computer animation and digital special FX shown on television in the UK, Europe and the USA from 1981-85
- 1981 Memoria nella Informatica, Milan, Italy
- 1980 Venice Biennale, Venice, Italy
- 1979 EXP at PCL, Concourse Gallery, Polytechnic of Central London, UK, May
- 1978 8eme Festival de Musique Experimentale, Bourges, France
- 1977-79 RILKO Artists, Acme Gallery London & United Kingdom tour
- 1977 Young Liverpool Sculptors, Turnpike Gallery, Leigh, UK, 9-30 July
- 1975 The Video Show, Serpentine Gallery, London, England, 1-25 May, Arts Council of Great Britain
- 1974 CUBE, Multimedia Performance, Theatre of Mixed Means, Liverpool, Commissioned by Merseyside Arts Association, November 15-16
- 1967 Northern Young Contemporaries, Whitworth Gallery, Manchester, England

## Collections and Commissions

Craftsouth: Centre for Contemporary Craft & Design Inc., Adelaide, South Australia, acquired 2009

Victoria & Albert Museum, acquired as part of the gift of the Computer Arts Society Archive, 2008

Mary & Leigh Block Museum of Art, Northwestern University, Evanston, Illinois, USA, artwork acquired January 2008

Queensland State Health Department, Public Artwork - Amaze Redux - cladding for the Eastern Wall of 63 George Street, Brisbane, 2008

Gladstone City Council, Public Artwork - QUEENS STONE GLAD LAND - stainless steel storm drain cover, May 2005 - February 2007

Victoria & Albert Museum, acquired as part of the gift of the Patric Prince Collection, 2006

Ipswich City Council, Public Artwork - Surface Texture Designs for Eastern and Northern Entry Statements, December 2001-January 2002.

Queensland State Justice Department, Public Artwork - The Labyrinth of the Law - Wynnum Courthouse courtyard, June 2001

John Curtin Gallery, Curtin University, Perth, Australia, artwork acquired August 1999

Art Rage, artwork acquired December 1998

ArtBank, artworks acquired November 98 and October 97

Toowoomba Regional Gallery, artwork acquired Sept 1998 (purchase award)

Griffith Artworks, artwork acquired July 98

University of Western Sydney MacArthur Art Collection, acquired August 97 (purchase award)

Redland Shire Council, artwork acquired July 1997

Public Fountain Detailing, Redland Shire Council, opened March 97

Shell Australia, Melbourne, artwork acquired August 96

Fremantle Art Gallery, artwork acquired August 96 (purchase award)  
OptusVision, Fortitude Valley, Brisbane, artwork acquired July 96  
The British Computer Society  
The Confederation of British Industry  
Private Collections in the UK, USA & Europe

## Exhibitions Curated

- 2005 MetaCreation - the Third Iteration Art Show, Monash University, Melbourne, 30 November – 2 December also shown at Generative Art Practice, University of Technology, Sydney, 5-7 December
- 1999 Sci-Art 99, Queensland Sciencentre, Brisbane, Australia, September 9-26. A part of Multimedia Art Asia Pacific (MAAP 99) and a complimentary event to the Third Asia Pacific Triennial of Contemporary Art (APT3)
- 1989 Images of Synthesis, a program of contemporary computer animation, Modern Image Makers Association (MIMA), Victorian State Film Theatre, Melbourne
- 1981 ComputerVision, an exhibition of computer art to accompany the conference of the same name, Café Royal, London, on behalf of the Computer Arts Society for John Halas, Halas & Bachelor
- 1980 CAD 80, an exhibition of computer art, 4<sup>th</sup> International Exhibition and Conference on Computer-aided Design, Brighton Conference Centre, UK, 31 March – 2 April, on behalf of the Computer Arts Society for CAD Journal
- Computer-Assisted Art, Computer Graphics '80, Brighton Conference Centre, UK, 13-15 August, on behalf of the Computer Arts Society

## Books

- 2010 A Machine That Makes Art: The origin of the computer arts 1940 – 1980, Brown, P, ICA/LASALLE SIA, Singapore (to appear)
- 2009 White Heat Cold Logic: British Computer Arts 1960 – 1980: An historical and critical analysis, Brown, P, C Gere, N Lambert, C Mason (Eds.), MIT Press – Leonardo Imprint
- 1995 Electronic and Network Publishing: A Creators Guide to the Electronic Frontier, Brown P, Eurographics Tutorial Series, Eurographics, Switzerland, August

## Published Papers, Essays and Reviews

- 2009 From System Art to Artificial Life: Early Generative Art at the Slade School of Fine Art, chapter in **White Heat Cold Logic: British Computer Arts 1960 – 1980: An historical and critical analysis**, Brown, P, C Gere, N Lambert, C Mason (Eds.), MIT Press – Leonardo Imprint
- Not Intelligent by Design, co-author with Phil Husbands, chapter in **Art Practice in a Digital Culture**, a volume of *Digital Research in the Arts and Humanities*, Ashgate, (to appear)
- Art for Knowledge's Sake: a review of On New Constructs in Art by Ernest Edmonds, The Art Book, Vol. 16, No. 1, February
- 2008 Far from the Main Stream, Proceedings ISEA 08, the International Symposium on Electronic Arts, Singapore, 25 July – 3 August
- The Mechanisation of Art, chapter in Husbands, P and O Holland (Eds.), **The Mechanical Mind in History**, MIT Press
- 2007 The Drawbots, with Bill Bigge, Jon Bird, Phil Husbands, Martin Perris, Dustin Stokes, Proceedings Mutamorphosis, Prague, Czech Republic, 8-10 November
- Eternity's Sun Rise, catalogue essay for **Tumbling Dream Chambers**, an exhibition by boredomresearch at the Digital Art Museum, [DAM] Berlin, 7 July – 11 August
- 2006 The Idea Becomes a Machine - AI and Alife in Early British Computer Art, Roy Ascott (ed.), **Engineering Nature – art & consciousness in the post biological era**, Intellect, UK 2006, pp. 229-233, see also *Proceedings Consciousness Reframed 2003*, below
- 2005 The CBI North West Export Award, PAGE 62 – the bulletin of the Computer Arts Society, Northern Hemisphere Autumn
- Creating Mind, Proceedings Altered States Conference, Planetary Collegium, University of Plymouth, UK, July

- Editorial - with Catherine Mason; **Re-Searching our Origins**, a special two-part issue of Leonardo Electronic Almanac (LEA), MIT Press, Vol. 13, Nos. 4 & 5 April & May
- 2004 Relativity Trip, a review of Suzanne Treister's show **Operation Swanlake** at Annely Juda Fine Art, London, 20 May - 17 July 2004, RealTime No. 63, Oct-Nov 2004, p. ??
- Depression: The Art Cure?, a review of Mike Stubbs' show **City Strapline Industries** at the Baltic Centre for the Arts 27 Mar - 30 Apr '04, RealTime No. 62, Aug-Sept 2004, p. 30
- The Computer Arts: Origins and Contexts, Proceedings Educators Program, SIGGRAPH 04, Los Angeles, 8-12 August 2004
- 2003 A report from the Military Entertainment Complex - SIGGRAPH 2003, review of SIGGRAPH 03, fineArt forum vol. 17, no 12, December
- Recovering History - Critical and Archival Histories of the Computer-based Arts, SIGGRAPH 2003 Electronic Art and Animation Catalogue, San Diego, July, pp. 10-11
- The Idea Becomes a Machine - AI and Alife in Early British Computer Art, Proceedings Consciousness Reframed 2003, University College Wales, Newport, July 2003, published in Roy Ascott (ed.), Engineering Nature - art & consciousness in the post biological era, Intellect, UK 2006, pp. 229-233
- Book Review: It's Cool to be Real!, Digital Culture by Charlie Gere, FineArt Forum, Vol. 17, No. 5, May/June
- Editorial: Generative computation and the arts, Digital Creativity, Vol. 14, No. 1, pp. 1-2
- 2002 Foreword, Linda Candy and Edmonds, E. (Eds), **Intersection and Correspondence**, Springer April
- Book Review, Sol LeWitt: Incomplete Open Cubes, Nicholas Baume (ed.), FineArt Forum, Vol. 16, No. 11, November
- 2001 I Remember Socialism, Computerra #??, May, pp. ?? (in Russian)
- Stepping Stones in the Mist, chapter in David W. Corne & Peter Bentley (Eds.), **Creative Evolutionary Systems**, Morgan Kaufman, pp. 387-408
- Breaking the art & science standoff - a review of the First Iteration Conference, Leonardo, Vol. 34, No. 4. pp. 335-336 (republished from RealTime 36 - below 2000)
- 2000 A Report from the Bleeding Edge - review of Consciousness Reframed 2000, RealTime 40, Sydney, December/January, pp. 19
- The Digital Performance Archive - Charting Cyber trends in Performance, fineArt forum, Vol. 14, No. 6, June
- Book Review: A View from the Trendy End, a review of **Ars Electronica - Facing the Future**, in fineArt forum, Vol. 14, No. 6, June
- Design by Committee, a review of SIGCHI 2000, Den Haag 1-6 April 2000, in fineArt forum, Vol. 14, No. 5, May
- Breaking the art & science standoff - a review of the First Iteration Conference, RealTime 36, Sydney, April-May, pp. 31
- 1998 30 years on - Remembering Cybernetic Serendipity, Outline 6, Brighton, UK, Autumn, pp. 3-5
- Initiation and the Academy, Proceedings ISEA '98, Liverpool, UK, September, abstract only
- SIGGRAPH 97 - Invasion of the Sillywood, RealTime 24, Sydney, April-May, pp.21
- Emergent Culture, MESH, Issue #12, 1998/99, Experimenta Media Arts, pp. 4-8
- Metamedia y ciberespacio: los ordenadores avanzados y el futuro del arte, chapter in Claudia Giannette (Ed., translator) **Ars Telematica: Telecomunicacion, Internet y Ciberespacio**, l'Angelot, Associacio de Cultura Contemporania, Barcelona, May, pp. 84-94.
- Translation of Metamedia and CyberSpace - advanced computers and the future of art, (see 1990)
- 1997 Networks and Artworks, chapter in S. Mealings (Ed.) **Computers and Art**, Intellect Press.
- The Garden of Virtual Delights, Periphery No. 30, February 1997, pp. 4-6.
- 1996 Final Report, The Mackay Regional Heritage Network Project, with Helen Tyzack, Department of Communication and the Arts
- Looking at The Ceiling, Imprint - the Journal of the Print Council of Australia, Vol. 31 No. 4, December, pp.21-22.
- New Media - an emergent paradigm, Periphery, No. 29, November, pp. 13-15.
- Networks and Artworks: the failure of the user-friendly interface, Intelligent Tutoring Media, Vol. 7, No. 2, pp. 57-63, October

- Emergent Behaviour - toward computational aesthetics, Artlink Magazine - Art in the Electronic Landscape, July.
- Stéphan Barron, catalogue essay, Telstra Adelaide Festival, April.
- Interaction and Emotion - Childhood's End, Languages of Interactivity Conference, Australian Film Commission, Sydney, April, abstract only. Full paper published on the Languages of Interactivity web site: <http://click.com.au/afc/>
- Art on the Internet, Broadwalk Magazine, Vol. 2, No. 5, pp.13-14
- 1995 Towards the Virtual Museum - will it be "the real thing", proceedings Communicating Cultures - 2<sup>nd</sup> National Conference Museums Australia 1995, Brisbane, Australia, November, pp. 90-92
- Art and Artists on the 'Net, Community Arts News, Cairns, Issue 17, November, pp. 18-19
- The Light Fantastic, MultiCad Magazine, pp. 30-32. November
- Hype, Hope and CyberSpace - pedagogical problems at the digital frontier, Proceedings Intersections 94, Sydney, Australia October, pp. 19-24, reprinted from 1994 - eCAADe 94
- Art on the Internet, Connecting Queensland, Vol. 3, No. 5. August, pp.21
- The UnderNet, CLiCK online magazine. May.
- Networks and the Community, Queensland Community Arts Network News, May, pp. 18-19, also reprinted in Community Arts News, Cairns, September/October, Issue 16, pp.18-19
- The Ethics and Aesthetics of the Image Interface, Metro magazine, No. 103, pp. 81-85 (Proceedings of Narrative and Interactivity - below)
- Living With the Consequences of Metaphor, Proc. The Filmmaker and Multimedia Conference: **Narrative and Interactivity**, Australian Film Commission, Melbourne, March, abstract only.
- Cargo Cults and Technofetishism - a review of the multimedia proposals in Creative Nation, Media Information Australia, No 74, February 1995, pp. 87-88
- Contributor, Self Promotion Booklet for Visual Artists, Queensland Artworkers Alliance, Brisbane
- 1994 Review - ISEA 94, International Symposium on Electronic Art, Eyeline No. 26 summer 1994, December, pp. 7-8
- Hope, Hype, and Cyberspace - or - Paradigms Lost, NAVA Newsletter, December, p. 8
- Hype, Hope and CyberSpace - pedagogical problems at the digital frontier, Proceedings eCAADe 94, **The Virtual Studio**, pp. 7-12, Strathclyde, Scotland, September
- Hype, Hope and CyberSpace - pedagogical problems at the digital frontier, The 5th International Symposium on Electronic Art, ISEA 94, University of Art and Design, Helsinki, Finland, August. Abstract published in "ISEA 94 Catalogue", pp. 195.
- fineArt forum - a model for public access on the information superhighway, Media Futures Conference, Gold Coast, Centre for Cultural Policy Studies, Griffith University, July
- The Ethics and Aesthetics of the Image Interface, Computer Graphics, ACM SIGGRAPH, ACM, New York. Vol. 28 No. 1 pp28 - 30, February.
- 1993 An Interdisciplinary Approach to Art and Design Education: Computational Design, The Higher Education Journal (T.H.E.) Vol. 21 No. 5, December, pp. 72-76
- Computational Design at Mississippi State University, ACSA 93, University of North Carolina, 22-23 October, pp. 167-175
- Digital Technology and Motion Pictures, chapter in Ross Harley (Ed.) **New Media Technologies**, Australian Film, Television and Radio School. pp. 73-98, July
- The Ethics and Aesthetics of Rich Media Interfaces, Abstract only in Proceedings Ed-Media 93, Orlando FL June. pp 603. Assoc. for the Advancement of Computing in Education.
- CyberArts 92, review in Desktop Magazine, pp. 18-21, Australia. February.
- CyberArts 92, review in FineMedia, Vol. 1 No. 2, pp.37-39, Germany. January.
- 1992 Beyond Art, chapter in Clifford A Pickover (Ed.) **Visions of the Future - Art, Technology and Computing in the Twenty-First Century**, Science Reviews, Northwood UK. pp 193-204
- The Cutting Edge of Creative Technology: CyberArts International '92, Design World, No. 25, Australia, December
- Multimedia in Context, Design World, No. 25, Australia, December

Generations, catalogue introduction for an exhibition by Tony Longson at the EZTV Gallery, Hollywood, USA, December

Performance Time (Design Futures), Creative Review, UK, October

Brenda Laurel - Navigator of the Electronic Dreamtime, Tech Images Internationales, Vol. 1, France/USA, Sept/Oct

Barry Tucker in Japan, Design World, No. 24, Australia, August

Computational Design at Mississippi State University, with Patty Seger, SIGGRAPH Educators Newsletter, Fall

Reality versus Imagination, SIGGRAPH 92 Visual Proceedings/Art Show Catalog, July

Desktop video comes of age, MacNews Australia, July, p. 87

Desktop Multimedia, Media Information Australia, Sydney, Australia, April

Jack H Davis - A Profile, Design World. No. 23, Australia, April

In Time for Tomorrow, Design World. No. 23, Australia, April, pp. 44-51

The Convergence of Reality and Illusion, Proc HiVision 92, Tokyo, Japan, March

Technology and Survival - a role for the artist, Agenda, Australia, March

Book Review: Goodbye Gutenberg, a review of **Multimedia in the 1990's** by Tony Feldman, CILECT Newsletter, No. 7, March, pp. 7-8

Showtime in America, MacNews, Australia, February

Tokyo Online, MacNews

ModaCAD, Design Editorial

1991 Future Perfect - Designing Information for People, Design Ink. December.

Designing the Future, MacNews. December.

SIGGRAPH 91 - a Look at Tomorrow, Design Editorial. October.

SIGGRAPH 91 - Welcome to the Pleasure Dome, MacNews. October.

User Illusions, the Desktop and Beyond, Design Ink. September.

Multimedia is the Message, MacNews. August

Centers? - time to disperse, Panels Proc. ACM/SIGGRAPH 91, ACM, New York, July.

Communion and Cargo Cults, Proc. Second International Symposium on Electronic Arts (SISEA), the Netherlands, May.

Steps Towards the Evolution of a New Medium - Computer Aided Art & Design, (see autumn 1990). Proc. Computer Graphics and Education, Barcelona, Spain, April

The Flip Side, a regular monthly column for MacNews Australia, March 1991 - 1993

1990 AUSGRAPH 90 Art & Video Program, review in Artlink Vol 10 #4 pp37. December.

Steps Towards the Evolution of a New Medium - Computer Aided Art & Design. Leonardo Vol. 23 No. 2&3 pp 197-200. Special issue - **New Foundations: Classroom Lessons in Art, Science & Technology for the 1990s**

Beyond Art, 21C Vol. 1 No. 1 - the Magazine of the Commission for the Future. October

Metamedia and CyberSpace - advanced computers and the future of art, chapter in Heywood, P, Ed., **Culture Technology and Creativity in the Late 20th Century**. Arts Council of Great Britain/John Lebbey Press, October.

Ink on paper? You've got to be kidding!, The Lithographer, Official Journal of the Victorian Division of the Lithographic Institute of Australia, Vol. 1, No. 1, March, pp. 2-3

1989 Art at the Computer Human Interface, Artlink, Vol. 9 No. 4, December

Preface, The Computer Animation Dictionary by Robi Roncarelli, Springer-Verlag, September

Art and the Information Revolution, Artlink Vol. 9 No. 4, December (reprint of Leonardo 89, August)

Realism & Computer Integrated Manufacture, chapter in Lansdown & Earnshaw (Eds), **Computers in Art Design and Animation**, Springer Verlag, August (based on Dec. 87)

Images of Synthesis, Other Pleasures Catalogue, Modern Image Makers Association, Melbourne, August

- Art and the Information Revolution, SIGGRAPH 89 Art Show Catalogue, a special issue of Leonardo **Computer Art in Context**, August
- 1988 It ain't what you do, it's the way that you do it, Proc. AUSGRAPH 89. ACGA 1989, July
- SIGGRAPH 88 Review, Computer Graphics Technology, October
- SIGGRAPH - the Art of Science, Computer Images. October
- Let's Integrate, Computer Images. May
- Computer Aided Art & Design Education at Middlesex Polytechnic, Invited Paper, Proc. NCGA 88, National Computer Graphics Association, Anaheim, CA, USA, March
- Going Dutch with Design, Computer Images. March.
- What's Happening Over There, AV Video, USA, March, pp. 50-54
- A Constipation of Creativity, Invision, February
- A Journey into the Future, Computer Images, January
- 1987 Realism and Computer Integrated Manufacture, Invited Paper, Proc. Realism and Visualisation, British Computer Society Displays Group 21st Anniversary Conference, London, December (see also August '89)
- The DIY Route to Success, Computer Images. November
- Computer Graphics: Science for art's sake?, Direction, November, pp. 49-52
- The State of Animation, Creative Review. October
- Filtering Down Computer Hi-Tech, Audio Visual. October.
- Review: Simulation Meets Jelly Modelling, SIGGRAPH technical review, Computer Images, September/October, pp 17-18
- Review: Return of the Art Show, SIGGRAPH art show review, Computer Images, September/October, pp 14-15
- The Inside Perspective, Computer Images. July
- Doodling with digitals, Kuwait Airways Inflight Magazine, pp 23-25
- Animation escapes from the grid, Computer Images. May.
- Computer Graphics - where are we now?, Graphics World. May.
- Digital Pictures - Representation and Storage, Journal of AudioVisual Media in Medicine. Vol 10 No 2, April
- When bureaus are the best option, Computer Images. March
- Book Review: Portraits in the digital style, Computer Images, January/February, p 52
- Time to sort out the brainstorm, Computer Images. January/February
- 1986 Book Review, Composites by Nancy Burson, Richard Carling, and David Kramlich, Computer Images, December
- Foothills of the 21st Century, Computer Aided Art & Design 3 Conference, London, November, published in ACADE Newsletter, Vol. 1, No. 2, 1987
- Australian Market Growing, Pixel computer animation newsletter, Vol 3 No's 8&9. November
- Specifying CAAD Systems, ACADE Newsletter, Vol. 1, No. 1, Autumn, p. 19
- The:=User\*Friendly==Wet\_Dream - Creative Imagemaking and Computer Literacy, ACADE Newsletter, Vol. 1, No. 1, Autumn, p. 16
- SIGGRAPH '86 Review, Creative Review. October
- Sifting the Hard Core, SIGGRAPH '86 Technical Review, Computer Images, October, pp. 16-18
- Art Show Turns on the Style, SIGGRAPH '86 Art Review, Computer Images, October, pp. 20-21
- The wizards of Oz: Australian Report, Computer Images. October, pp. 45-47
- Computer Animation in Australia, Proceedings Computer Graphics '86, London October
- The:=User\*Friendly==Wet\_Dream - Creative Imagemaking and Computer Literacy, Proc. AUSGRAPH '86 (Abstract only), Australasian Computer Graphics Association, Sydney, July
- Revolution in the Art Schools, Computer Images. July.
- Computers and Special Effects, Gulf Air Magazine. July.
- A History of the Computer Arts, Invited Keynote paper, Proc. Electronic Design Conference Brighton Polytechnic, March

- 1985 Computer Graphics '85 Review, Graphics World Magazine, January  
Kaleidoscope on Computer Art, BBC Radio 4 Art's Magazine, January.  
Roadtesting the Aesthedes, Graphics World, November.  
...and Pigs Can Fly - Computer Literacy and the Creative Designer, invited paper, Proc. Computer Graphics 85, London, October.  
Graphics and Animation, Computer Systems, October.  
Quick On The Draw at SIGGRAPH '85, CAD/CAM International, October  
Computer Animation Blasts-Off, CAD/CAM International, October, pp. 8  
SIGGRAPH '85: The forum for people 'listening to their imagination', Graphics World, September/October, pp. 23-28  
Prize Winners in Focus at SIGGRAPH, CAD/CAM International, September, pp. 10  
Visionary Daze at Art College, AudioVisual, No. 163, July, cover & pp. 26-28  
Book review: Computer Graphics by John Lewell, Computing - the Magazine, July 25, pp. 25  
A Frame by Frame Look at Effects, Televisual, June  
Book review: Soft Computing - Art and Design by Brian Reffin Smith, Computing - the Magazine, June 13, pp. 24  
Book reviews: The ABC of Computer Graphics, Dictionary of Computer Graphics by John Vince *and* The Computer Graphics Glossary by Stuart W. Hubbard, CAD/CAM International, March, pp. 38  
Corporate Communications - Preparing for Change, Proc. Computer Graphics User 85, WCGA, London February.  
Book review: Laying it on the hemline, Creative Computer Graphics by Annabel Jankel and Rocky Morton *and* Dictionary of Computer Graphics by John Vince, Creative Review, January pp. 56-57  
Book review: Brave new AI world, The Creative Computer by Donald Michie and Rory Johnston, Computer Systems Magazine, January, pp. 31  
 Letter: Why Aesthedes is tarred with a different brush, Direction, No. 42
- 1984 Book Review: Hallucinogenic necessity? Computer Art and Graphics by Axel Bruck, Computer Systems, December, pp. 29  
Book Reviews: Computers for Animation by Stan Heywood *and* Computer Images - state of the art by Joseph Deken, CAD/CAM International, December, pp. 30  
Low-Cost High-Resolution Computer Animation, invited paper. Proceedings Computer FX '84 International Conference and Exhibition, Online, London, 9-11 October  
Computer Graphics in Art Education - Catch 22, Proceedings Computer FX '84 International Conference and Exhibition, Online, London, 9-11 October  
Generation Gaps, Creative Review Magazine. October  
FX '84: Paul Brown looks at the Computer FX '84 Conference, Creative Design, September  
Moving Pictures - the State of Play, Creative Design Magazine. August  
Book review: A Programmer's Geometry by Adrian Bowyer and John Woodwark, CAD/CAM International, January, p. 26
- 1983 Book Review: Fundamentals of Interactive Computer Graphics by J D Foley and A van Dam, CAD/CAM International, February, p. 27
- 1981 The Modulus 8 Series, PAGE 49 - Bulletin of the Computer Arts Society, November
- 1980 Discussion of the BSC80 Computing Exhibition, PAGE 40 - Bulletin of the Computer Arts Society, pp. 1-2

## Selected Unpublished Papers and Presentations

- 2009 Art, Science, Technology in the late 20<sup>th</sup> century: a revisionist view of a revolution that never was, University of Bremen Informatik-Kolloquium, 28 January  
Guest Speaker, Digital Encounters - An International Symposium, Sabanci University and KASA Gallery, Istanbul, Turkey, 5 - 8 January
- 2008 Participant, Computational Aesthetics workshop, Cambridge University, 9-10 December  
Participant, Art Tech Media symposium, Cordoba, Spain, 26-28 November

- Art & Science - a personal history and A Short History of the Computer Arts, University of Minho, Guimares Campus, Portugal, 21 November
- Art & Science - a personal history and A Short History of the Computer Arts, University of Brighton, England, 18 November
- Art, science and technology in the late 20<sup>th</sup> century - a revisionist view of a revolution that never was, invited keynote address, Computers in the History of Art - CHArt 08, Birkbeck, University of London, 6-7 November
- Art & Science - a personal history, Cranfield University, 1 October
- Discussant and co-moderator, 'Cybernetic Serendipity Redux' online discussion, YASMIN e-list, September
- Cellular Automata for Visual Media, 1-day workshop, 25 July, as a part of ISEA 08, the International Symposium of Electronic Arts, Singapore, 25 July - 3 August
- Sensual Technologies, Sensual Technologies, ICA, London 27 June
- Origins and Emergence - a brief history of the digital arts, an IOCT Salon, Institute of Creative Technology, DeMontford University, Leicester, 1 May
- Discussant, 'Robotics' online discussion, Australian Network for Art and Technology (ANAT) Synapse e-list, April
- 2007 The Pursuit of Autonomy: Art that Makes Itself, Knowledge Through Practice Seminar, Brighton University, 26 November
- The Pursuit of Autonomy - art that makes itself, Vision and Imagination - Advanced ITC in Art and Science, TESLA, University College London, 24 November
- The Computer Arts Society, invited presentation, PAN FASTFORWARD, Naples, 22-24 November
- Coming of Age in the Global Village, invited keynote address, Computers in Art and Design Education, CADE 07, Perth, Australia, 12-14 September
- Colour, Symbol and Ambiguity, Computer Arts Society + Colour Group joint meeting, BCS London, 20 June
- Co-convenor with Janis Jefferies, Autonomy, Signature and Computational Creativity - A Conversation between Margaret Boden and Jon McCormack, 4th International Joint Workshop on Computational Creativity, Goldsmiths, University of London, 17-19 June
- The DrawBots - from chaos to creative behaviour, Embracing Complexity in Design II, Art in the Science of Complex Systems, Lighthouse Media Centre, Brighton, UK, 13-15 June
- The Drawbots, Takeaway Festival 2, Dana Centre, Science Museum, London May 9-11
- Art that Makes Itself, The Upgrade! Scotland, New Media Scotland at Dundee Contemporary Arts (DCA), 2 May
- Art that Makes Itself, the Lansdown Lecture, Middlesex University, 1 May
- Stepping Stones in the Mist, TESLA, University College London, 17 April
- 2006 Stepping Stones in the Mist, the Thursday Club Lecture, Goldsmiths, London, 20 September
- The DrawBots Project, the Interactive Digital Media program, National University of Singapore, 7 June
- 2005 The DrawBots Project, Designing for the 21<sup>st</sup> Century Initiative Network workshop, The Centre for Arts Research, Technology and Education (CARTE), University of Westminster, UK, 14-15 September
- The Convergence of Fact and Fiction, Panel presentation at City Escape, The London Consortium, Institute of Contemporary Art (ICA), London, UK, 30 July
- The DrawBots Project, Interactive Mind Strategic Initiative workshop, Sussex Arts Club, Brighton, UK, (University of Sussex), 19-20 July
- Stepping Stones in the Mist & The DrawBots Project, The Mixed Reality Lab., National University of Singapore, 20 April
- The DrawBots Project, Live Algorithms for Music Initiative Network workshop, Goldsmiths College, University of London, UK, 11 April
- The DrawBots Project, Creative Evolutionary Systems workshop, Goldsmith's College, University of London, UK, 14 February
- 2004 Metacreation: Art and Artificial Life, in discussion with Mitchell Whitelaw, empyre e-List, 4-10 November

- Convenor, The Computer Arts: Origins and Contexts, forum, SIGGRAPH 04 Educators program, Los Angeles, USA, 8-12 August
- Origins - the early computer arts in the UK, invited presentation, Incubation 3, Nottingham Trent University, 12-14 July
- Panellist, Archiving New Media, Incubation 3, Nottingham Trent University, 12-14 July
- Stepping Stones in the Mist, Informatics Colloquium, University of Bremen, Germany, 7 July
- Stepping Stones in the Mist, presentation for the Computer Arts Society, 1 June
- Stepping Stones in the Mist, presentation for The National Centre for Computer Animation (NCCA), University of Bournemouth, UK, 18 February
- CACHe - History of Early British Computer Arts, presentation for Dorset Chapter of the British Computer Society, UK, 18 February
- Stepping Stones in the Mist, presentation for postgraduate students - AD2004, Coventry University, UK 14 January
- 2003 Café Scientifique, in discussion with Phil Husbands, Art and Science Collaborations, Big Blip 03, Sallis Benney Theatre, Brighton, UK, 11 October
- When New Media Was New: Cybernetics, respondent (with Helen Sloan) to Jasia Reichardt, 1 October, Tate Modern, London
- Convenor, Recovering History, a Birds-of-a-Feather Forum, SIGGRAPH 03, San Diego, USA, 27-31 July
- Evolving Art: Artificial Intelligence and Artificial life, LASALLE SIA School of Art, Singapore, 13 March
- Stepping Stones in the Mist, LASALLE SIA School of Art, Singapore, 11 March
- Stepping Stones in the Mist, SIGGRAPH Brighton Chapter, Brighton University, UK, 4 February
- 2002 Stepping Stones in the Mist, Blip 5, Lighthouse Media Centre, Brighton England, July 22
- 2000 Evolving Art: Artificial Intelligence and Artificial life, NOW Festival, Nottingham, England, 28 October
- Stepping Stones in the Mist, Faculty of Art & Design, Brighton University, 14 November
- Stepping Stones in the Mist, Department of Electronic Imaging and Media Communications, University of Bradford, England, 25 May
- Opening Talk, Constructs and Reconstructions, an exhibition by Ernest Edmonds, Loughborough University New Gallery, 11 May
- Stepping Stones in the Mist, COGS Allergic Seminar, Biology Lecture Theatre, University of Sussex, March 8
- The Ethics and Aesthetics of the User Interface, workshop contribution, Semiotic Approaches to User Interface Design, CHI'2000, 2 April
- 1999 Stepping Stones in the Mist, First Iteration, 1-3 December, Melbourne, Australia
- No More Point 'n Click, Without Walls?; Cultural Organisations beyond the Millennium, State Library of Queensland, Brisbane, Australia, 3 November
- Milestones in New Media, NxT - Northern Territory 'xposure, Darwin, Australia, 29 September - 3 October
- Transitions and Emergence - the role of new media in the art of the 21st century, InSEA 30th World Congress, 21-26 September, Brisbane, Australia
- Artist's Talk, Queensland Sciencentre Volunteers, Brisbane, Australia, 28 July
- User Defined Environments, Artex 99, Brisbane, Australia, 18 July
- 1998 Opening Talk, exhibition by Debbie Livingstone, QLD College of Art Gallery
- Panellist, Panel Three: Signs and Portents with David Tacey and Rachael Kohn, Millennial Encounters: Time, Millennia and Futurity Conference, La Trobe University, Melbourne, 9 October
- The Art Mainstream as The Enemy, panel convenor & moderator, ISEA 98, Liverpool, UK, September
- Emergent Culture, Invited Keynote, Culture Track WWW7, Brisbane, 15 April
- Opening Talk, FOLDBACK, ANAT/Telstra Adelaide Festival, April
- 1997 Launch Address, QLD Macromedia Users Group, 11 November
- Respondent, The Shock of the View, Walker Arts Centre, Minneapolis, 3-24 November

SIGGRAPH 97 and the Computer Animation Festival, an evening seminar hosted by Communication Design, Academy of the Arts, QUT, 5 November

Art for Art's Sake, Australian Culture Online, Dept. Communication and the Arts, Canberra, October

fineArt forum - past, present and future, ISEA 97, (presentation made by Amanda McDonald Crowley), September

Panellist, Bytes from the cultural cake, eMedia 97, QLD Multimedia Arts Centre, Brisbane, 6 June 1997.

New Technologies: New Aesthetics, CINOVAR Graduate Seminar, 17 April

Opening Talk, Burning the Interface exhibition, Brisbane City Gallery, 4 April

Architecture and New Media, School of Architecture, Mississippi State University, via video-link

1996

Art and the Internet, The Brisbane Club Arts Luncheon, 24 October

One-day World Wide Web Workshop, Society of Editors (QLD), Griffith University, 16 November

An Emergent Paradigm, State Library of Queensland, 13 October

Keynote Address, The Challenge of Change, 5th International and 12th Biennial Conference, Australian Institute of Medical and Biological Illustrators, Brisbane, 6 - 9 September, 1996 -and-

Digital Pictures - Ten Years On, The Challenge of Change, 5th International and 12th Biennial Conference, Australian Institute of Medical and Biological Illustrators, Brisbane, 6 - 9 September, 1996

Networks and Artworks: the failure of the user-friendly interface, ISEA 96, Rotterdam, September 1996. Presentation made by Amanda McDonald Crowley.

InterWhat?, with Daniel Brown, one-day workshop for youth leaders, Contact Youth Theatre, 16 August

Opening talk - Toward the New Art, Virtual Locations '96, Third annual digital exhibition of computer mediated art, Centre for Innovation in the Arts, Academy of the Arts, Queensland University of technology, 22 July

Writing for the Internet, panel presentation for the Queensland Writers Centre, Brisbane, 18 July.

How to Create and Maintain a World Wide Web Site, seminar for the Society of Editors (QLD), Queensland University of Technology, March

Multimedia and the Fine Arts, launch Queensland Multimedia Arts Centre, Brisbane, 23 April

The New Cafe Culture, launch of the HUB Internet Cafe, Brisbane, 21 March

1995

The Internet and the World-Wide-Web, a Presentation for the Society of Editors, Griffith University. October

The Internet and the World-Wide-Web, a Presentation for Royal Australian Institute of Architects, Griffith University. October

Art and the Internet, Design Has No Boundaries International conference, QUT, Brisbane, 26-29 September

Communicating with Images - Pitfalls and Pointers, ANZAAS 95, Newcastle, Australia, September

A Creators Guide to the Electronic Frontier, a Workshop presented at Eurographics 96, Maastricht, The Netherlands, August

Beyond the Printed Page, Printing Executives Conference 1995, Gold Coast, Australia, August

Technology and the Arts, workshop for Queensland Department of Business, Industry and Regional Development and the Office of Arts and Cultural Development, Brisbane, 6 June

Graphic Communication and Design for the World Wide Web and Scanning for Screen Images, workshops presented at Computer Graphics International, Leeds, UK, June

Museums and the World Wide Web, International Museums Day, Museum of Contemporary Art, Museums Australia, Sydney, June

An evening's surf on the world wide web, Australian Graphic Design Association Queensland, Design College Australia, Brisbane, 4 May

Art and Artists on the World Wide Web, PC95, Australian Computer Society, Brisbane, 10 May

Setting Up a Website, Media Tools 95, Sydney. May

Art and Technology Workshops, James Cook University Artist in Residence Program, Townsville. May

Contributor, After Ausweb Seminar, Australian Library and Information Association, Universities, Colleges, and Research Libraries Section, Queensland, QUT Library, Brisbane, 19 May

Internet Workshops, Global Info. Links, Ipswich, April

Artists and the Internet, Zero/One Conference, the National Digital Art Awards, Noosa, March

Netting in the Arts: accessing art resources on the Internet, Ipswich Regional Art Gallery, 20 March

The Internet and the World-Wide-Web, a Presentation for Film Queensland, Griffith University. February

The Internet and the World Wide Web, Multimedia Forum, Institute for Cultural Policy Studies, Griffith University, Brisbane, February

The Internet and the World-Wide-Web, a Presentation for Queensland State Library and Art Gallery, Griffith University. January

Art on the World Wide Web, public presentation for the Australian Network for Art and Technology annual summer school, Griffith University. January.

1994

Hype, Hope and CyberSpace - pedagogical problems at the digital frontier, New Media Forum, Sydney, ArtSpace, 1994, November

Art and Technology Workshops, Workshops for Flying Arts Inc., 25-26 Nov 1994, Griffith University. November.

The Internet and the World-Wide-Web, a Presentation for Arts Queensland, 11 October 1994, Griffith University. October

Electronic and Network Publishing for the Electronic Arts, a Workshop presented at the Second ACM International Conference on Multimedia, ACM Multimedia 94, 1994, San Francisco, 17 October 1994, USA. October

Hype, Hope and CyberSpace - challenges for the modern designer, Intersections, University of New South Wales. (Proceedings to appear). September

Electronic and Network Publishing for the Electronic Arts, a Workshop presented at The 5th International Symposium on Electronic Art, ISEA 94, University of Art and Design, 1994 Helsinki, 20 August 1994, Finland. August

The Information Superhighway and Cultural Imperialism - ownership and access to the media, The 5th International Symposium on Electronic Art, ISEA 94, University of Art and Design, 1994 Helsinki, Finland. Abstract published in "ISEA 94 Catalogue", pp. 164-165. August

An Unbearable Load - teaching technology in art and design, The 5th International Symposium on Electronic Art, ISEA 94, University of Art and Design, 1994 Helsinki, Finland. Abstract published in "ISEA 94 Catalogue", pp. 197. August

Design for the Digital World, Queensland College of Art Lunchbox Lecture, Griffith University, Brisbane, 3 August

The Future of Electronic Publishing, Media Futures Conference, Gold Coast, Centre for Cultural Policy Studies, Griffith University, July, Invited Keynote Panellist, June

1993

Paradigms Lost, South East College Arts Association SECAC 93, North Carolina State University. October

The Flip Side, Mississippi Educational Computing Association 11th Annual Conference, Jackson, Mississippi, 4-5 October

Computers in the Visual Arts and Design, Mississippi Educational Computing Association 11th Annual Conference, Jackson, Mississippi, 4-5 October

(I want a) Dream Woman (so I don't have to dream alone), panel presentation for **Nan-o-sex and Virtual Seduction**, SIGGRAPH 93, Anaheim, CA. August

The Virtual Classroom, Panel Presentation, American Society for Information Science, ASIS Mid-Year Meeting, Knoxville Tennessee, May

The Ethics and Aesthetics of the Image Interface, American Society for Information Science, ASIS Mid-Year Meeting, Knoxville Tennessee, May

Semiosis, Symbiosis and Communication Technology, Interdisciplinary Speakers Series, Engineering Research Center, Mississippi State University, 24 March

Symbiosis, Semiosis and Communication Technology, InnerSpace/OuterSpace - Southern Humanities Conference, Huntsville, Alabama. February

Computational Design: an Interdisciplinary Visualization Program, Sigma Xi Seminar, Engineering Research Center, Mississippi State University, 27 January

- 1992 Paradigm Shifts, NCAA 92, National Council of Arts Administrators Annual Conference, Sarasota USA, November
- 1991 Ethical Issues at the Computer Human Interface, Mississippi State University, November  
Beyond the Illusion, School of Fine Arts, Univ. of NSW, Sydney, May
- 1990 Post Modernism and beyond - computer art in the market place, panel for SIGGRAPH LA Art 90, Los Angeles, USA, October  
Digital Dreams or Virtual Reality?, National Arts Week Seminar with Sally Pryor and Bill Seaman, Artspace, Sydney, Australia, 12 October  
Virtual Landscapes, panel presentation for National Arts Week, Gallery of NSW, Sydney, September  
Communion and Cargo Cults, ArtSPEAK: New Technology and Computer Generated Art, Institute of Modern Art, Brisbane, Australia, 11 October  
Chaos - yes but is it art?, a forum at the RMIT Gallery. September  
Communion and Cargo Cults, Commission for the Future. May  
Beyond Art, Victorian Centre for Photography. April  
Art in the Age of Post-Mechanical Reproduction, panels at the Adelaide Festival Fringe/Australian Network for Art & Technology. March  
Manual Skills in a Technological Age, panel at the Adelaide Festival Artist Week. March  
Beyond Art, Art, Design and Technology Seminar, Australian Computer Aided Design Society (ACADS), Adelaide. January
- 1989 The Future Beyond Scanners, Lithographic Institute of Australia. November  
Beyond Photography, Victorian Centre for Photography. October  
Art & Beyond, Australian Video Festival, Sydney. October  
Animation from NCGA 89, Aust CG Association, Victorian Division. June
- 1988 New Directions, Media Technology - the Creative Perspective, Melbourne, September  
Help! - They're taking over, ten public lecture/seminars on the development and application of new technology and computers in design, film, and television, Swinburne Computer Image Program, Melbourne, began August 24<sup>th</sup>  
AUSGRAPH 88, Melbourne, Australia, July  
 Co-presenter (with Philippe Bergeron), Tutorial on Character Animation  
 Chair, Panel on Computing in the Visual Arts  
 Member, Panel on Business Graphics  
Animation from NCGA 88, Australian CG Assoc., Victorian Division, June
- 1987 Graphics - Where are we now? Art Advisers Conference, Hengrave Hall Conference Centre, Suffolk, UK. December  
 Chair Computers in Design & Engineering, Churchill Hotel, London, Horsley Computer Information Seminar, September  
Towards 2000 - Design in Revolution, The Nene Lecture, Nene College, Northampton, UK, May  
Computer Synthesis of Video Imagery, British Universities Film Council Conference, Bradford, UK, 23 April
- 1986 Chair, Computer Graphics Technology module, Computer Graphics '86, Wembley, London, UK, October  
The Designer and Computer Graphics, 11<sup>th</sup> National Graphic Design Exhibition, London, 22 October  
Fractal Techniques for Scene Modelling, The Australasian Computer Graphics Association (ACGA) Victorian Branch, Chisholm Institute of Technology, Melbourne, Australia, 6 August  
Fractal Techniques for Terrain Modelling, State of the Art in Stereo and Terrain Modelling, Displays Group, British Computer Society, London, May  
Computer Animation for Fun and Profit, Eurographics UK '86 Conference, Invited Presentation, Glasgow, Scotland, March
- 1985 SIGGRAPH '85 - a Report from the Leading Edge, Computer Graphics - Designers Talking, Society of Industrial Artists and Designers (SIAD), London. December  
How to Specify and Purchase CAAD Equipment, Computer Aided Art & Design One, London, November

Invited Keynote, Product launch. B-Graphic's presentation of Computer Graphics at the Café Royal, London, November 6<sup>th</sup>

Training the user to be computer graphics literate, Computer Graphics '85, London, October

Prize Winners in Focus at SIGGRAPH, CAD/CAM International, Sept 1985, pp.10

Presentations and workshops for Applications of Computers in Art & Design Education. Dept. of Education & Science, London. July

The Designer Interface, invited paper, Computer Graphics - Designer talking to Designer. Royal College of Art, London. March

Computer Graphics in Art and Design, British Computer Society Dundee Branch, Angus Hotel, Dundee, March 11th

1984 Computer Animation Techniques, invited paper, Computer Graphics in Television, London. December

Computer Aided Art & Design Education, Society of Industrial Artists and Designers (SIAD) Seminar on Art Education, London. November

Tomorrow's talent and technology, Panel discussion, Computer FX '84 International Conference and Exhibition, Online, London, 9-11 October

Computing and Photography, DATEC Photography Teachers Conference, Nene College, Nottingham. September

Computer Animation, Computing in the Arts Conference, University of London. July

1979 Artist and Computer, Artist's talk to accompany the exhibition of the same name, Denman Library, Retford, 20 March

## **Selected Grants, Gifts and Loans**

2004 Arts and Humanities Research Council, funding for the DrawBots project (Computational Intelligence, Creativity and Cognition: A multidisciplinary investigation) at the University of Sussex & University of Lancaster, for 2005-2008, with Margaret Boden, Phil Husbands, Ernest Edmonds, Charlie Gere and Mitchell Whitelaw, UK£310,000

2001 Arts and Humanities Research Board, funding for the CACHe projects (Computer Arts, Contexts, Histories, etc..) at Birkbeck College, University of London, for 2002-05, with Charlie Gere and George Mallen, UK£250,000

1999 Australia Council, New Media Arts Fund, Fellowship for 2000/01, AU\$80,000

1997 Australia Council, New Media Arts Fund, partnership grant, Artist in Residence - Queensland Science Centre 1998-99, AU\$30,000

1997 Australian Film Commission, travel to SIGGRAPH 97, AU\$1,004

Film Queensland, travel to SIGGRAPH 97, AU \$1,004

Queensland Arts Office Digital Media Program, travel to SIGGRAPH 97, AU \$650

1996 Australia Council, New Media Arts Fund, development grant for 1997, AU\$18,000

Australian Network for Art and Technology, travel to ISEA 96, AU\$1,250

1995 Arts Queensland, to develop fineArt forum, AU\$10,000

1993 Mississippi Department of Economic and Community Development, to produce "A Multimedia Presentation Promoting the State of Mississippi", US\$3,725

1993 ACM/SIGGRAPH (match MSU College of Arts and Sciences) seed funding to develop an online bibliography of electronic art. US\$3,000 + \$3,000

1992 State Farm Insurance, to upgrade the computer facilities in the Department of Art, Mississippi State University. US\$15,000

1990 ACM/SIGGRAPH Special Projects Fund, to investigate the feasibility of a Global Interactive Art Network for completion in 1992. US\$10,000

Australian Film Commission, travel to the Netherlands and present a paper at the Second Symposium on Electronic Art (SISEA). AU\$3,500

Victorian Education Foundation, four-year support for the Advanced Computer Graphics Centre at RMIT. AU\$2.2 million

Commodore Computers. To travel in the USA. AU\$3,000

Commodore Computers. Loan of an Amiga 2500 system for courseware development.

- 1989 Australian Film Commission. To visualise a set of non-linear perceptive responses generated by simple colour interpolation. AU\$4,000
- 1988 Spaceward of Cambridge. Gift of two broadcast paint systems to Swinburne Institute UK£120,000

## Reviews, Citations and Reportage

- 2009 Review and Images, Stephen Wilson, **Border Patrol: Artists working at the Frontiers of Research** (working title). London: Thames & Hudson, 2009, *to appear*
- 2008 Citation, Diana Davis, **First we See - the Final Report of National Review of Visual Education**, Australian Government Department of Education, Employment and Workplace Relations and the Australia Council for the Arts, pp. 82, 250
- Review and Images, Catherine Mason, **A Computer in the Art Room - the origins of British computer arts 1950-80**, JG Norfolk, book casing image and pp. *iv*, 93-4, 131-2, 152, 162, 175, 178, 181, 189-92
- 2007 Review and Images, Richard Colson, **The Fundamentals of Digital Art**, AVA Academia/Thames & Hudson, London, pp. 8-9, 28, 30, 139
- Image, Steve Cunningham and Judith R. Brown, *A History of ACM SIGGRAPH*, Communications of the ACM, 50(5), May 2007, pp. 54-62
- 2006 Review and images, Bruce Wands, **Art in the Digital Age**, Thames & Hudson, New York, pp. 44-45
- Review and images, Gil Saunders and Rosie Miles, **Prints Now - Directions and Definitions**, V&A Publications, London & Abrams, New York, pp. 12
- 2005 Review and images, Darren Tofts, **interzone: Media Arts in Australia**, Craftsman House/Thames & Hudson, Australia, frontispiece & pp. 85-86
- Report, QAA Newsletter, Spring, p. 7
- Report, Art Monthly Australia, No. 182, p. 55
- Review and images, International Digital Art Awards, Desktop, Issue 204, April, pp. 5 & 31
- 2004 Time-based works, **Art & Biotechnologies** (CD), Groupe de recherche en arts médiatiques, Art & Biotechnologies, Presses de l'Université du Québec, 2004
- Time-based works, **Evolution: the engine of creativity** (CD), EvoNet, London Southbank University
- Review and images, Mitchell Whitelaw, **Metacreation: Art and Artificial Life**, MIT Press, Cambridge, USA, pp. 146, 148-152
- Statement and Image, **Adventures in the Moving Image**, onedotzero9 Catalogue, p. 41
- Review and image, Suzette Worden, **Writing the Collection** catalogue, Curtin University of Technology, pp. 18-19
- Review and Image, Alan Pipes, **Foundations of Art and Design**, Laurence King Publishing, pp. 241
- Statement and Images, IconData 2004, International Print Triennial Society, Cracow, Poland
- Review, Ashley Crawford, Seriously Weird Worlds: Transfigure at ACMI, Realtime, No. 59, February/March, pp. ??
- 2003 Image, Road Note - Public Domain Awards, Cement and Concrete Association of Australia, May 2003, pp.21
- 2002 Review, Under\_score: Next Wave Down Under Festival, McKenzie Wark, **Now Here's What's Happening in Your World (Even As We Speak)**, BAM website, February, pp. 6
- Review and image, Under\_score: Next Wave Down Under Festival, Allen Feldman, **The Digital Miniature: Private Perceptions in a Public Space**, BAM website, February pp. 5-6
- 2001 Image, Cleveland Art Walk (catalogue), Redland Shire Council, Australia, pp.14
- Review, Greg Hooper, Time Based Art, Working the Screen 2001 - a RealTime Special Issue, November 2001, pp. 9
- Image, Mitchell Whitelaw, net.art: a polymorphous survivor, RealTime, Oct-Nov, pp.3
- Interview with Leonid Levkovich, Computerra #17, 8 March, pp. ?? (in Russian)
- Cover Image, AISB Quarterly, spring 2001, No. 105
- Review and Images, Computerra #2(379), February, pp. 25-35 (in Russian)

- Interview, with Michael Hammel, Danmarks Radio, 2/2/01 (in Danish)
- Interview, Profiles, Queensland Artworkers Alliance Newsletter, Autumn, p. 12
- 2000 Image, Design Graphics - Portfolio Issue, #54, December, p. 82
- Image, Working the Screen 2000, RealTime, Australia, August/September, p. 4
- Review and image, Patric D. Prince, **Computer Art in the New Millennium**, IEEE Computer Graphics and Applications, Vol. 20 No. 1, January-February, pp 26-27
- Citation, Dispatches from the war zone: Computing in Art and Design Education 1980-1999 by Alan Sekers, OutLine, Issue 9, Winter, pp. 25-29
- Citation and Image, School of Cognitive and Computing Sciences Annual Report 1999-2000, University of Sussex, p. 13
- 1999 Review, NxT Symposium, RealTime, December-January
- Image, Sue Gollifer, Digital Creativity, Vol. 10, No. 1, pp.38
- Review of Sci-Art '99, I want to believe by Linda Carroli, RealTime, MAAP99, Asia Pacific Triennial special issue, Vol. 2, No. 2, p. 7
- Review of Sci-Art '99, It's the fridge calling by Greg Hooper, RealTime, MAAP99, Asia Pacific Triennial special issue, Vol. 2, No. 2, p. 7
- Biographical Citation, Terrence Masson, **Computer Graphics 101**, New Riders, Indianapolis, USA, September
- 1998 Review - Alien Spaces, Straits Times, Singapore, 17 September
- Cover Image, Media Information Australia, No 87, May
- Citation, Virtual Encounters - review of FOLDBACK, RealTime, Vol. 4, page 10
- 1997 Citation, fineArt forum celebrates 10 years online, Arts Office, Vol. 8, No. 1, winter 1997
- Review and Images, Lagniappe #6 website
- Review - Paul Brown: Alien Spaces, Margaret Turner, Eyeline No. 34, spring, pp.45
- Review - Alien Spaces, Peter Anderson, RealTime 20, August/September
- Review - Taking Bigger Artistic Bytes, Sue Smith, Courier Mail, 31 May
- Review - Art for science sake takes shape at QUT, Campus Review, 7 May
- Brief review - Our Man in Hollywood, Trudy McIntosh, Australian, 15 April
- Citation - Digital Arts Come Out Down Under, Alex Huneus, WIRED Online, 23 May
- Citation - Sunshine Site, Mary Gilliver, RealTime 18, April/May, p. 25
- Citation - Buzz-free creativity, Sue Smith, Courier Mail, 12 April, p. 13
- Three Images, Braybon, Gail, Private View - The ArCade II Exhibition, Digital Creativity, Vol. 8 No. 1, April, Intellect Press, UK, p. 39
- Poster and Postcard Image, Digital Media Program poster, Queensland Arts Office, April
- Review ArCade II, Computer Arts magazine, March/April, UK.
- 1996 Biographical Citation, Who's Who in the World, 14th Edition, Marquis Who's Who, New Jersey, 1996
- Cover Image, Leonardo, Vol. 29. No. 3, MIT Press, July
- Cover Image, Artlink, Art in the Electronic Landscape special issue, July
- Inside Cover Image, Artlink, Art in the Electronic Landscape special issue, July
- Citation, The Pioneers of British Computer Animation and Their Legacy by Richard Wright, chapter in **Diverse Practices: A Critical Reader on British Video Art**, Julia Knight (ed.), Arts Council of England and University of Luton Press
- 1995 Biographical Citation, Who's Who of Australian Visual Artists, D W Thorpe, Melbourne
- Citation, Spender, Dale, **Nattering on the Net**, Spinifex, pp. 92-93
- Catalogue, Digital Creativity CD-ROM, Computers in Art and Design Education, Suzette Worden (Ed.), catalogue of the first ArCade exhibition of electronic prints, University of Brighton
- Citation, The World Wide Web, The Source - Magazine of the Queensland Branch of the Australian Computer Society, May/June, p. 8
- .NET, April, UK
- Media Information Australia, No. 74, February.

- Encore Magazine, February 20.
- 1994 NAVA Newsletter, December  
eCAADe Bulletin, 94/3 pp. 2, October
- 1993 Citation, **Future Visions: New Technologies of the Screen**, Philip Hayward and Tana Wollen (Eds.), British Film Institute, pp. 184, 196  
ASEE Prism, June, pp.13  
Southern Currents, Vol. 5 No. 7, Feb, p. 8
- 1991 Citation, Refiguring the Media Image by Brian Langer, Desktop, No. 56, November, pp. 62-64  
Citation, Ten.8, V2 n2, pp86, autumn  
Review, Culture, Technology and Creativity in the Late Twentieth Century by Adrian Martin, Agenda No. 19, September, p. 17  
Citation, NAEA Studies in Art Education, Vol. 32 No. 4 pp. 250-254, summer  
Citation, Collaboration between industry and academia - computer graphics in design education by Adele Newton, Computer Graphics and Education '91 Proceedings - Goals and Directions for the Next Five Years, April 4-6, Barcelona, p. 1
- 1990 Review and Images, Voyage to the Centre of the Mind, Printmedia, December, pp. 16-19  
Interview, Paul Brown: Interview by Linda Wallace, Agenda No. 12, August, pp. 16-17  
Feature Article, Order and chaos by Linda Wallace, The Bulletin, August 14, pp. 141-142  
Images, photoFILE, No 29 autumn, pp. 20, 24-25, 28-29  
Radio Interview, The Ramona Cobal Show, ABC Radio 3LO, 17 April  
Radio Interview, (with Roger Malina) on "Arts National", ABC Radio National, 28 March  
Linden Gallery Newsletter, Vol 1 #2 February  
Filmnews, Vol 20 #1, February  
Citation, The Lithographer, Official Journal of the Victorian Division of the Lithographic Institute of Australia, Vol. 1, No. 1, p. 1.
- 1989 Citation, Art and Technology: Towards a new culture? by Sally Pryor, Artlink, Vol. 9, No. 4, Summer, pp. 56-57  
Citation, A Brief Report on Ausgraph '89 by Sally Pryor, Artlink, Vol. 9, No. 3, Spring, p. 39  
Citation, Animation equipment opens new doors, ENCORE, May/June, p 18
- 1988 Computer Graphics Technology, December  
Review, Brown Chooses Dunn, Creative Futures, Hamilton's Gallery, London, 16-21 May, Direction, June, pp. 61  
PIXEL - the computer animation newsletter, Vol 4, No. 12, March  
Citation, Using CAD creatively by Alan Pipes, Engineering, Vol 228, No 3, March, pp 159-163  
Citation, Design World, No. 14, Australia, pp. 134  
Citation, Goodbye to all that by Bob Swain, Computer Images, January/February, p 3.
- 1987 Design Week, November.  
Theme Image, IEEE Computer, Vol 20, No. 6, June.
- 1986 Computer Graphics, Vol 20, No. 5, October.  
Catalogue Entry & Image, SIGGRAPH '86 Art Show Catalogue  
Citation, SIGGRAPH time is here again, Computer Images, July  
Citation, More conferences at Middlesex, Computer Images, July  
Review - computer animation, PIXEL - computer animation newsletter, Vol 3, No. 2, May  
Review and Image, Airship's lighting up time, Computer Images, April, pp. 39  
Citation, Getting into Graphics, Computer Talk, March 21
- 1985 Review - computer animation, PIXEL - computer animation newsletter, Vol 2, No. 8, Nov.  
Review - computer animation, A Computerised Kaleidoscope, Computing Age, November, pp. 36-39  
Citation, From micro to the big screen by Alison Blair, Micro Decision, November, pp. 120-124  
Citation, Graphics: Steering the CG Bandwagon by Alan Pipes, Design, July, p. 17

- Citation, Max Headroom: CAD or Fad, CAD/CAM International, July, pp. 16-17
- Review - computer animation, Fear, Excitement and Computer Graphics, Graphics World, May/June, p. 32
- Citation, It's a pity Picasso never met his namesake who works at the Poly, Computer News, 16 May, p. 36
- Review and Images - computer animation, Novum Gebrauchsgraphik, March.
- Review, The paperless studio will soon be with us by Stephen Arkell, Computer News, 28 February
- Review - computer animation, The Grampian logo gets computer aid by Deborah Sippitts, Television Weekly, 25 January
- Citation, In a Claessens of its own?, Television and Video Production Magazine, pp. 47
- Citation, **Computer Animation: Theory and Practice** by Nadia Magnenat-Thalmann and Daniel Thalmann, pp. 229 & 233
- 1984 Catalogue of RAI TV Idents, **D&AD Annual**, Design and Art Directors Assoc. of London
- Images, Jankel & Morton, **Creative Computer Graphics**, Cambridge University Press.
- Citation, Michie & Johnston, **The Creative Computer**, Viking/Penguin.
- Theme Images and Christmas Animation Ident., ITV TV Times, Xmas Edition, 25 December
- Image - computer animation, Computer Systems, December, pp. 29
- Review - computer animation, Japanese porn joins Quatro in the top animation league, AudioVisual, December, pp. 42-43
- Cover Image and Reviews - computer animation, Televisual special report: Titles and Graphics page 31 & 3-Dimensions: Childish images for Christmas, pp. 32-33, Televisual, December
- Review - computer animation, Creative Review, November, p. 17
- Cover Image, CAD/CAM International, November
- Cover Image and Review, Drawing on DP potential by Candice Goodwin, Computing - the Magazine, 15 November, pp. 12-13
- Feature Review, Computers in Design by Simon Rockman, Personal Computing Today, November, pp. 2-5
- Review - computer animation, Computer graphics: realistic is the wrong word by Alan Pipes, Design, November, pp. 64-65
- Review, The race is not lost but can we find the starting grid?, Creative Design, October/November
- Review and cover - computer animation, Round the World in Digital Pictures, AudioVisual, No. 154, October, pp. 38-41
- Citation, Education: The ubiquitous computer, The British Journal of Photography, 5 October, pp. 1047-1048
- Cover and Images, Creative Review, UK, October, cover & pp. 35-36
- Review, Commodore and its Technicolor Dreamscreens, Commodore Computing Magazine, Vol. 3, No. 3, September, pp. 8-10
- Cover Image, CAD/CAM International, August
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