

Carinna Parraman - Curriculum Vitae

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Telephone: 0177 328 5806

Education:

1986-1989 BA (Hons) Fine-Art Printmaking and Art History, Winchester School of Art (2:1)

1993-1995 MA Printmaking, Camberwell School of Art, London (distinction)

2009 PhD 'The Development of Alternative Colour Systems for Inkjet Printing', University of the West of England, Bristol

Current Post: Senior Research Fellow

Summary of Research and Professional Practice

SUCCESSFUL BIDDING

- Marie Curie Initial Training Networks (ITN) Call: FP7-PEOPLE-2011-ITN (2011) Colour Printing 7.0: Next Generation Multi-Channel Printing "CP7.0" Total project, (**1,592,149.03 euros, total to beneficiary approx 200,000 euros**) Funding for PhD studentship and to host a training event (Host Co-ordinator HØGSKOLEN i GJØVIK, Norway)
- KTP Renishaw PLC, Wotton Under Edge, (2011) To investigate and develop additive layer manufacturing technologies for the creative industries **£177,465**
- European Regional Development Funding Agency (2010) **£15,000** for one year, working with Roland DG to create novel wallpapers.
- Marie Curie Conferences & Training Courses (SCF) Call Identifier: FP6-Mobility-4, Euros **532,363.80** (2006) CREATE – Colour Research for European Advanced Technology Employment
- Hewlett Packard, **£85,000** (2006) To fund a research fellow to write software for the development of halftoning algorithms and the creation of a software user interface for the development of 'n' channel / multi colour inkjet printing. (with S Hoskins)
- AHRC **£4989** (2004) Screenprinted colour as a theoretical model for the development of inkjet technology
- AHRC **£218,644** (2003) Methodologies for the Integration of Fine Art Practice and Wide format Digital Printing (with P Thirkell and S Hoskins)
- AHRC **£4,047** (2001) An Investigation, recording and presentation of photomechanical prints by process
- KTP **£77,065** (2001) John Purcell Paper London, To create a series of standard and bespoke colour profiles for digital printing to meet the requirements of the digital market. (with S Hoskins)
- AHRC **£4850** (1999) A feasibility survey of the 19th century Woodburytype print process and its potential relationship to 20th century rapid prototyping technology
- AHRC **£3579** (1999) The investigation and the production of an electronic resource to facilitate the dissemination of research in printmaking

COMMITTEES

- Technical committee member of IS&T, Colour Imaging, processing, Hardcopy and Display - Electronic Imaging Conference, USA (2009-
- Technical review committee for International Conference on Computer Vision Theory and Applications (VISAPP) 2012, Rome, Italy
February, 2012
- Session Chair: Colour in Print, Art, and Design, CGIV 2012, Amsterdam, May 6-9, 2012.
- Programme committee for AIC 2013 (Association Internationale de la Couleur) Gateshead UK
- Technical reviewer for Desire'11, 18-21 October, Eindhoven 2011.
- Committee member of the board of the Colour Group GB (2010 -
- Committee members of the Awards Panel for the Colour Group Committee (2009 -
- Member of the Festival of Ideas board, Bristol City Cultural Development Agency (2007-
- Technical reviewer for JIST- Journal of Imaging Science and Technology
- Technical reviewer for CGIV - Colour in Graphics, Imaging, and Vision
- Technical reviewer for IMPACT (1999 -
- Editorial board and reviewer for Design & Creativity, online journal from the Society of Dyers and Colourists (SDC) (2006 –
- Board of the Hewlett Packard *@rt Exchange Programme*, Bristol, November 2004, Barumini Sardinia, October 2004, Nice, October 2003, Florence, June 2003

SELECTED KEY NOTE/INVITED TALKS

C. Parraman (2010) 'The drama of illumination: artist's approaches to the creation of HDR in paintings and prints', Invited speaker – special session, *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-21 January 2010*, Vol.7527-OU, pp1-12, ISBN 9780819479204

J. McCann, C. Parraman, A. Rizzi (2009) 'HDR and Colour Constancy: New Psychophysical Results' TechTalk Google, USA 2009 www.youtube.com/watch?v=OmlaLSxj27k

C. Parraman (2008) 'An artists' approach to the interpretation and reproduction of coloured shadows through pigment colour mixing', Gjøvik Color Imaging Symposium, The Norwegian Color Research Laboratory, Gjøvik, Norway, 26 November 2008.

C. Parraman (2007) 'How might Inkjet be developed?' Gjøvik Color Imaging Symposium, The Norwegian Color Research Laboratory, Gjøvik, Norway, 14-15 June 2007.

PUBLICATIONS LIST

BOOKS AND CHAPTERS IN BOOKS

[BC6] C. Parraman, (2011) 'Colour, context & perception: artists' colour rendering in traditional and contemporary art', Chapter 7, in B. Wilson (Editor) *Science, art and cultural contention*, Leonardo/MIT (expected publication date 2012)

[BC5] C. Parraman, (2011) 'Colour in Hardcopy', Chapter 25, in Janet Best (Editor), *Colour Design: theories and applications*, London, Woodhouse Publications, (to be published 2011)

[BC4] J.J. McCann, V. Vonikakis, A. Rizzi, C. Parramann (2010) 'Report on the 3-D colour Mondrian project: Reflectance, illumination, appearance and reproduction', in *Colour-Coded*, 2010, Pages 129-150, ISBN 9780 901956866.

[BC3] C. Parramann, A. Rizzi, (2010) 'CREATE: building a multi-disciplinary project in Europe', in *Colour-Coded*, 2010, Pages 6-17, ISBN 9780901956866.

[BC2] C.Parraman and N. Morby (2009) From Drypoint to Inkjet: Documenting prints at Tate. In J.Colbourne and R. Fishman Snyder. (2009) *Printed on Paper*, Northumbria University, Newcastle upon Tyne, Arts and Social Sciences Academic Press. Pages 170-176. ISBN 9780956120632

[BC1] C.Parraman (2000) A Survey Of Photomechanical Prints, Bristol, Impact Press, ISBN 0953607615

EDITED BOOKS

[EB4] C. Parraman (2011) *Colour Coded*, Bradford, Society of Dyers and Colourists, 303 pages, ISBN 9780901956934

[EB3] C. Parraman with A. Rizzi (2008) a special issue of 'New Directions in Colour: From Science to Art' of Colour: Design & Creativity, an online journal from the Society of Dyers and Colourists (SDC), October 2008. (Currently being transferred to AIC - Association Internationale de la Couleur)

[EB2] C.Parraman (2000) A Survey of Photomechanical Prints, Bristol, University of the West of England, Impact Press.

[EB1] C.Parraman, E. Brewer (1999) IMPACT 1999, The First Multidisciplinary Printmaking Conference, Bristol, Impact Press, ISBN 0892082631

INTERNATIONAL CONFERENCE PAPERS (REVIEWED)

[IC37] C. Parraman and S. Adams Foster (2011) 'Traditional approaches using new technologies: Case studies of printed wallpaper using UV inkjet printing', *Desire'11*, Eindhoven, The Netherlands, 19-21 October 2011 (in process)

[IC36] C. Parraman and A. Rizzi (2011) 'Knowledge exchange in the CREATE project – Colour Research for European Advanced Technology Employment', Proc. IS&T/SPIE Electronic Imaging, San Francisco, California USA, 23-27 January 2011, Vol.7866-OG pp1-9. ISBN 9780819484031

[IC35] J.J. McCann, V. Vonikakis, C. Parraman, A. Rizzi (2010) 'Analysis of Spatial Image Rendering', CIC18, *18th Color Imaging Conference*, San Antonio, 8-12 November 2010, Vol. 18, pp 223-228 ISBN 978-0-89208-294-0

[IC34] C. Parraman (2010) 'Experiments in inkjet colour tests for printmaking', *CGIV 2010, 5th European Conference on Colour in Graphics, Imaging, and Vision*, University of Eastern Finland, Joensuu, Finland, 14-17 June 2010, pp 107-112, ISBN 978-0-89208-291-9

[IC33] C. Parraman (2010) 'Developments in the Recovery of Colour in Fine Art Prints through Spatial Image Processing Methods', *4th International Conference on: Preservation*

and Conservation of Digitally Printed Materials, Institute of Physics, Rutherford Lecture Theatre, London, 27 - 28 May 2010, in *J. Phys.: Conf. Ser.* 231 012003

[IC32] C. Parraman (2010) 'New findings to colour changes in prints during long-term dark storage of prints', *4th International Conference on: Preservation and Conservation of Digitally Printed Materials*, Institute of Physics, Rutherford Lecture Theatre, London 27 - 28 May 2010, in *J. Phys.: Conf. Ser.* 231 012006

[IC31] C. Parraman (2010) 'Spatial image processing for the enhancement and restoration of film, photography and print', *INFOS 2010, The 7th International Conference on Informatics and Systems*, Cairo Egypt, 28-30 March 2010, 8 pp, ISBN 978-1-4244-5828-8

[IC30] C. Parraman (2010) 'The drama of illumination: artist's approaches to the creation of HDR in paintings and prints', Invited speaker – special session, *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-21 January 2010*, Vol.7527-OU, pp1-12, ISBN 9780819479204

[IC29] John J. McCann, Carinna E. Parraman, Alessandro Rizzi (2010) 'Pixel and spatial mechanisms of colour constancy', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-21 January 2010*, Vol.2508-03, pp1-8, ISBN 9780819479211

[IC28] Carinna E. Parraman; John J. McCann; Alessandro Rizzi (2010) 'Artist's colour rendering of HDR scenes in 3D Mondrian colour-constancy experiments', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-21 January 2010*, Vol.2508-02, pp1-11, ISBN 9780819479211

[IC27] C. Parraman (2010) 'The development of artists' novel colour palettes for inkjet printing', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-21 January 2010*, Vol.2508-0B, pp1-12, ISBN 9780819479211

[IC26] J.J. McCann, C. Parraman, C., and A. Rizzi (2009) 'Reflectance, Illumination and Edges: The Effects of Intraocular Glare and Object Size', *Proc. IS&T/SID Colour Imaging Conference, Albuquerque, CIC 17*, Vol.17, pp2-7, ISBN 978-0-89208-275-9

[IC25] J.J. McCann, C. Parraman, C., and A. Rizzi (2009) 'Reflectance, Illumination and Edges in 3-D Mondrian colour-constancy experiments', *Proc. 2009 Association Internationale de la Couleur 11th Congress, Sidney, 27 September - 2 October 2009*

[IC24] P. Walters, D. Huson & C. Parraman, M. Stanic (2009) '3D Printing in Colour: Technical Evaluation and Creative Applications', *Proc. Impact 6 Multidisciplinary Printmaking Conference, University of the West of England, Bristol, 16-19 September 2009*, pp31- 39, ISBN 9781906501037

[IC23] C. Parraman, A. Rizzi, and J.J. McCann (2009) 'Colour Appearance and Colour Rendering of HDR Scenes: An Experiment', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-22 January 2009*, Vol.7241-OR, pp1-12, ISBN 9780819474919

[IC22] C. Parraman & Y. Wang (2009) 'Printability beyond the limits: Alternative double printing method for inkjet' *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-22 January 2009*, Vol.7241-OX, pp1-6, ISBN 9780819474919

[IC21] Y. Wang & C. Parraman (2009) 'On determining the colour gamut of N-ink printers', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 18-22 January 2009*, Vol.7241-1G, pp1-7, ISBN 9780819474919

- [IC20] C. Parraman (2008) 'Colour in flux: Describing and printing colour in art', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 29-31 January 2008*, Vol. 6807-ON, pp1-12, ISBN 9780819469793
- [IC19] C. Parraman, P. Walters, D. Huson, and B. Reid (2008) 'Specifying colour and maintaining colour accuracy for 3D', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 29-31 January 2008*, Vol.6805-0L, pp1-12, ISBN 9780819469779
- [IC18] C. Parraman, A. Rizzi (2007) 'User preferences in colour enhancement unsupervised Methods for Printing', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 28 January –1 February 2007*, Vol.6493-OU pp1-11, ISBN 9780819466068
- [IC17] C. Parraman (2007) 'From Drypoint to Inkjet', Printed on Paper Conference, The Sage Conference Centre, Gateshead, UK, 5-7 September 2007. In book: J. Colbourne and R. Fishman Snyder. (2009) *Printed on Paper*, Northumbria University, Newcastle upon Tyne, Arts and Social Sciences Academic Press, pp170-176, ISBN 9780956120632
- [IC16] C. Parraman, A. Rizzi (2006) 'The combination of traditional printing inks and inkjet, for increasing colour choice for artists', *Proc. of Printing Technology SPb'06, St Petersburg, Russia, 26-30 June 2006*, pp225-229
- [IC15] C. Parraman (2006) 'Searching user preferences in printing: A proposal for an Automatic Solution', *Proc. Printing Technology SPb'06, St Petersburg, Russia, 26-30 June 2006*, pp174-177
- [IC14] C. Parraman, H.Q Wang (2006) 'What happens During Storage? To evaluate the whiteness artists' enhanced inkjet papers and changes in relation to the fading of ink' *Proc. Third International Conf on Preservation and Conservation Issues Related to Digital Printing, Institute of Physics, London, 24-25 April 2006*, pp14-23, ISBN 0955398401
- [IC13] C. Parraman (2005) 'Experiments in the hybridisation of screenprint and inkjet colour', *ENSAIA, Nancy, France, 9-10 November 2005*, pp84-88
- [IC12] H.Q. Wang and C. Parraman, (2005) 'Methods of making ICC profiles for fine art inkjet printing', Beijing International Conference on Imaging, China, May 2005
- [IC11] C. Parraman, P.Thirkell, S. Hoskins, H.Q. Wang, P. Laidler (2005) 'Customising digital printing for fine art practice', *Proc. IS&T/SPIE Electronic Imaging, San Jose, California USA, 17-20 January 2005*, Vol.5667, pp465-472 ISBN 0-8194-5640-3
- [IC10] C. Parraman (2003) 'A visual survey of colour on paper and colour changes during exposure to light', *IS&T 11th Color Imaging Conference - Color Science, Systems and Applications, Scottsdale, Arizona, USA, November 2003*, Vol.11, pp272-76, ISBN ISBN: 0-89208-248-8
- [IC9] C. Parraman (2003) 'Digital printing for artists', *Proc. PICS, 13-16 May 2003, Rochester New York, USA* pp455-60, ISBN 0892082453
- [IC8] C. Parraman, H.Q. Wang (2003) 'The application of colour management systems to improve the quality of inkjet printing on fine art paper', *Proc. Preservation and Conservation Issues Related to Digital Printing, The Physics Congress, 23-27 March 2003, Institute of Physics Heriot-Watt University, Edinburgh*, pp78-83, ISBN 0750309911
- [IC7] C. Parraman (2003) 'The fading characteristics of dye based and pigment based inks on artists' coated and uncoated printmaking papers', *Proc. Preservation and Conservation*

Issues Related to Digital Printing The Physics Congress, 23-27 March 2003, Institute of Physics Heriot-Watt University, Edinburgh, pp53-59, ISBN 0750309911

[IC6] C. Parraman (2003) 'The practical application of an artist's colour model as an alternative to CMYK', Proc. *IS&T/SPIE, Santa Clara, USA*, 21-24 January 2003, Vol.5008, pp129-137, ISBN 019448087

[IC5] C. Parraman (2001) 'Preserving the identity of digital prints', 29th August-2nd September 2001, *IMPACT 2*, University of Helsinki, Finland
<http://www2.uiah.fi/conferences/impact/>

[IC4] C. Parraman (2001) 'Digital print, traditional print', Proc. *CADE 2001 Digital Creativity*, Glasgow School of Art, 9-12 April 2001, pp281-283, ISBN 0901904821

[IC3] C. Parraman (2001) 'The impact of paper on ink: The photomechanical printer's perspective', Proc. *IS&T 9th Color Imaging Conference - Color Science, Systems and Applications*, Scottsdale, Arizona, USA, 5-9 November 2001, Vol.9, pp214-18, ISBN 0892082356

[IC2] C. Parraman, P. Thirkell, S. Hoskins (2000) 'The photomechanical print as conservable output', 26-27 October 2000, *Preservation and Conservation Issues Related to Digital Printing*, Institute of Physics, Rutherford Centre, London, pp92-95

[IC1] C. Parraman (1999) 'In search of the organic dot', 7-9 April 1999, *CADE 99 Digital Creativity*, University of Teeside, p185, ISBN 0907550665

OTHER CONFERENCES AND PRESENTATIONS

[OCP27] C. Parraman (2011) 'After Albers', Perceiving – Colour and the Visual Arts panel, *Kaleidoscope: New Perspectives on the Humanities*, University of Warwick, 28-29 May 2011.

[OCP26] C. Parraman (2010) 'Specifying Colour and Maintaining Colour Accuracy for 3D Printing', CREATE Conference, Gjøvik University College, Norway, 8-11th June 2010.

[OCP25] C. Parraman (2010) Developing international networks in arts, science and technology', IPEX, Birmingham, NEC, May 2010.

[OCP24] A. Rizzi, C. Parraman, and J.J. McCann (2009) 'Measuring Colour Constancy and Colour Appearance: an Experiment', *Minet Conference, Measurement, Sensation and Cognition*. National Physical Laboratory, London UK, 10-12 November 2009.

[OCP23] C.Parraman (2009) 'The longevity of ink on fine art paper', *CREATE - Colour Research for European Advanced Technology Employment, Training Course 5 : Colour Heritage and Conservation*, Università Degli Studi Di Milano, Italy, 19-24 October 2009.

[OCP22] C. Parraman (2009) Does This Look Right? The Science of Colour Appearance in Art, @Bristol Science Café, 9 June Bristol 2009.

[OCP21] C. Parraman, J.J. McCann & A. Rizzi (2008) 'The art and science of colour: Bridging the gap between art and perception', in *Seeing... Vision and Perception in a Digital Culture, the 2008 CHArt Conference. Computers and the History of Art 24th Annual Conference*, Birkbeck College London, 6-7 November 2008.

- [OCP20] C. Parraman, A. Rizzi (2008) 'Developing the CREATE network in Europe', in *Colour in Art, Design and Nature*, University of Edinburgh, 24 October 2008.
- [OCP19] J. McCann, A. Rizzi & C. Parraman (2008) 'Mapping HDR luminance for colour appearance: an experiment', *CREATE – Colour Research for European Advanced Technology Employment, Training Course 2: New Ways to Use Technology on Paper*, University of the West of England, Bristol, 13-17 October 2008.
- [OCP18] P. Walters, D. Huson & C. Parraman (2008) '3D Printing and Colour: A Multidisciplinary Investigation' *CREATE – Colour Research for European Advanced Technology Employment, Training Course 2: New Ways to Use Technology on Paper*, University of the West of England, Bristol, 13-17 October 2008.
- [OCP17] C. Parraman, P. Laidler & Y. Wang (2008) 'Pixel Perfect; Working with CMYK & RGB – a comparison of printed samples', *CREATE – Colour Research for European Advanced Technology Employment, Training Course 2: New Ways to Use Technology on Paper*, University of the West of England, Bristol, 13-17 October 2008.
- [OCP16] C. Parraman, P. Laidler, Melissa Olen (2009) 'Wideformat printing workflows', 6th *IMPACT Conference 2009*, University of the West of England Bristol, 17 -19 September 2009.
- [OCP15] C. Parraman (2008) 'Mixing and describing colour'. *CREATE – Colour Research for European Advanced Technology Employment, Training Course 1: Putting the Human into Colour*, Charleville-Mézières (Ardennes) France, 21-24 February 2008.
- [OCP14] C. Parraman (2007) *International Concerns in Printmaking: Four Perspectives*, Southern Graphics Council Conference, Kansas City Missouri, 2007
- [OCP13] C. Parraman, A. Rizzi, (2007) 'User Preferences in Color Enhancement Unsupervised Methods for Printing', RICOH Innovations, Menlo Park, California (USA), 2 February 2007
- [OCP12] C. Parraman (2004) 'Reinvention in Print: Anglo - American Printmaking from the 60s to 80s', Tate Britain, London 14 July 2004
- [OCP11] C. Parraman (2004) 'New Directions in Print Making, Prints at the Centre for Fine Print Research', Miskolc Gallery, Hungary, 14 April 2004
- [OCP10] C. Parraman (2003) 'HP Art and Science Colour and Wideformat Master Class', 2-4 July 2003, University of the West of England, in collaboration with Hewlett Packard and University of Derby.
- [OCP9] C. Parraman (2003) 'Hewlett Packard Art and Science Projects for Schools', *CADE 2003*, University of Lincoln, 22 -25 April 2003
- [OCP8] C. Parraman (2003) 'Digital Colour for Artists', *Southern Graphics Council Conference, Making Histories: Revolution and Representation*, April 2003, Massachusetts College of Art, Boston, USA
- [OCP7] C. Parraman (2002) Project reporting, HP Art and Science conference, Christiaan Barnard Suite, Cyprus 4-6 September 2002
- [OCP6] C. Parraman (2001) Panel Discussion: 'Changing Aesthetic in Contemporary Print', *IMPACT 2*, University of Helsinki, Finland, 29 August - 2 September 2001

[OCP5] C. Parraman (2001) 'Print on CD and the Bladerunner Principle', *Cortona International Print Symposium*, Cortona, Italy, 30 May - 2 June 2001

[OCP4] C. Parraman (2001) 'From Digital to Photomechanical: The symbiotic relationship of digital and photomechanical printmaking', *Southern Graphics Council Conference*, University of Texas, USA, 7-11 March 2001

[OCP3] C. Parraman (2001) 'Digital Printmaking' A panel exploring digital print making (chaired by Sue Gollifer), *CADE 2001 Digital Creativity*, Glasgow School of Art, 9-12 April 2001, p.137, ISBN 0901904821

[OCP2] C. Parraman (2000) 'Using New Technologies Retrospectively', *Southern Graphics Council Conference*, University of Miami, USA, 1-5 March 2000.

[OCP1] C. Parraman (1999) 'Practical 3D printing', *Southern Graphics Council*, Arizona State University, Phoenix, USA, 17-21 March 1999.

ARTICLES

[A4] C. Parraman, 'The Inkjet in Question', Summer 2001, *Printmaking Today*

[A3] C. Parraman, 'An Overview of Paper and Ink', Autumn 2003, *Art Business Today*

[A2] C. Parraman, 'Lasting Combinations, printing on uncoated and coated fine art papers', Winter 2003, *Printmaking Today*, pp.26-27

[A1] C. Parraman, 'Choosing Compatible inks and Combinations', Spring 2004, *Printmaking Today*, pp.20-21

ACADEMIC SUPERVISION

- Lead Academic Advisor

KTP Renishaw PLC, Wooton Under Edge, (2011-2014) To investigate and develop additive layer manufacturing technologies for the creative industries

- Lead Academic Advisor

KTP John Purcell Paper, London, (2001-2003) To create a series of standard and bespoke colour profiles for digital printing to meet the requirements of the digital market.

- Associate Academic Advisor and MPhil Supervisor

Cranfield Colours Ltd (2000-2002) To assess options for new products and develop a range of new inks for the Fine Art and related markets to meet the special requirements of that market and pending environmental legislation.

- Associate Academic Advisor

Ring Way Signs Ltd, (2006-8) To develop the design potential, introduce capability in digital print wide-format technology and integrated design/print workflow, leading to new market opportunities.

CONSULTANCY

- Luke Jerram (2011 -)
- Cameron Balloons UK (2011 -)
- RolandDG (UK) (2010 -)
- London Print Studio (2008)
- New Digital Papers, EKA Papers, Sweden (2008)
- Canon UK (2008)

- Trinidad and Tobago, Land Surveys Division (2007-2008)
- Hewlett Packard (2002 -)

SELECTED EXHIBITIONS

(2011) 'Portfolio of printed wallpaper using UV inkjet printing: Traditional approaches using new technologies', *DESIRE'11*, *Eindhoven University*, the Netherlands, 18-21st October 2011 (curated).

(2010) 'Flick-Flip-Flick' animation and flip-books with artists at Aardman Animations Studio, *University of the West of England*, Bristol
<http://www.uwe.ac.uk/sca/research/flickflipflick/Artists/index.html> (curated).

(2009) 'Tiny Touring Show', *IMPACT6 Impact Print Conference*, *University of the West of England*, Bristol, 16-19 September 2009 (co-curated).

(2008) 'Colour and Landscape: A Photographic Exhibition' 14 -18 October 2008, *University of the West of England*, Bristol <http://www.create.uwe.ac.uk/octgal081.htm> (curated).

(2007) 'Regenerator: altered books project exhibition', *Off-Centre Gallery*, Bristol 25 April - 11May 2007.

(2006-7) 'Drawing From Turner', *Tate Britain*, London, 6 November 2006 - 20 May 2007
 After Turner from Grenoble Sketchbook [Finberg LXXIV], *Looking Back to the Pic de l'Oeillette, Gorges du Guiers Mort, Grande Chartreuse 1802*
<http://www.tate.org.uk/britain/exhibitions/drawingfromturner>

(2006) 'FULL SPECTRUM' *Sherborne House*, 22 July - 20 August 2006
 Full Spectrum is the third exhibition developed for the Colour and Chemistry project at Sherborne House.
http://www.sherbornehouse.org.uk/exhibition_archive_2004/full_spectrum/pages/full_spectrum_2006.html

(2006) 'Bridge', a collaborative bridge drawing to commemorate the 200th anniversary of Brunel, *Royal West of England Academy*, Bristol, 2-29 April 2006
<http://www.rwa.org.uk/pastfrm.htm>

(2005) 'Arcadia id est: Touring Exhibition 2005-2007' artists' books, nature and the landscape <http://www.bookarts.uwe.ac.uk/arcbook.htm> ISBN 0 9543810 5 X

(2005) 'Infiltrating Kontakt', Impact Kontakt Conference: *Universität der Künste Gallery*, Berlin, Germany and *Muzeum Narodowe w Poznaniu* (National Museum of Poznan), Poland, 5-11t September 2005.

(2005) 'Artists' Books from the CFPR Collection', *Broekhuis Boekhandel*, *Enschede*, The Netherlands 1 August - 1 September 2005.

(2004-2005) 'Boxing Clever – Paper Engineering and Print'. An international artists portfolio, exhibition and competition for schools, *University of the West of England*

(2004) 'New Directions in Print', *Miskolc Gallery*, Miskolc, Hungary, April –May 2004 (co-curated)

(2003) 'ArCade 4', Digital Prints, *University of Lincoln*, CADE 2003, 22 - 25 April 2003

(2003) 'DO-DON'T/ CAN-CAN'T', *IMPACT 3 South Africa, Michaelis School of Fine Art* University of Cape Town, 27 -30 August 2003 (curated)

(2003) 'A History Book That Never Was', *Southern Graphics Council Conference, Making Histories: Revolution and Representation*, Massachusetts College of Art, Boston, USA, April 2003

(2003) 'Two Countries Separated by a Common Language' (exchange portfolio between UK and USA), shown at *Southern Graphics Council Conference, Making Histories: Revolution and Representation*, Massachusetts College of Art, Boston, USA, April 2003

(2002-3) 'Movement Marey and Muybridge', Hewlett Packard Art for Schools, flip books and exhibition, *University of the West of England* (curated)

(2002-3) '20:20 A Documentation of Artists Making Prints', *University of the West of England* (curated)

(2002) *The International Digital Miniature Print Portfolio* in collaboration with Hewlett Packard and HP Art and Science for schools (2001-2) *University of the West of England* (curated)

(2001) International Miniature Print Portfolio, *Southern Graphics Council Conference, University of Texas, Austin, USA, 1 – 7 March 2001* (curated)

(2001) 'A Survey of Digital Photomechanical Prints', 9 -12 April, *CADE 2001 Digital Creativity, Glasgow School of Art*, p.284, ISBN 0901904821 (curated)

(2000) 'A Photomechanical Survey', *Create Centre, Bristol*, 10th - 20th October (curated)