

Professor C. Alan Short MA (Cantab.) Dip. Arch RIBA FRSA

B. London 1955, m. Slaine Catherine Campbell, 1 da. Georgia Grace b. 2003

EDUCATION

- **The Lower School of John Lyon, Harrow-on-the-Hill, scholarship.** - **Cambridge University, Trinity College 1974–1977** *senior scholarship*, First Class Honours degree, first in year, University Edward S. Prior Prize, College Prizeman - **Harvard University Graduate School of Design 1978-1979.** Exchange Fellowship - **Cambridge University 1979 – 1980**, Diploma in Architecture, First Class, first in year.

ACADEMIC

- **The Professor of Architecture, University of Cambridge**, 2001- present, the University Buildings Committee 2001- present, NW Cambridge Dev. Masterplanning C'ttee 2009-, Chair Faculty Promotions C'ttee. 2008-09, Member Council of the School of Arts and Humanities 2001-2004, IT Syndicate 2001-2004, Institute of Continuing Education Management Committee and Appeals Committee, Head of Department 2001-4, Elector Slade Professorship 2005, Elector Professorship of Sustainable Design 2006, Architecture Advisory Group 2005-2012, Chair of Part II of Tripos Examiners 2002-05, 2008-09, Part IB Tripos 2006-07 and 2011-12, Founding Director of the MPhil in Environmental Design in Architecture (Option B) 'Prescribed' by ARB as Part 2 May 2009, 'validated' by the RIBA 2011, the first Graduate Research Degree in Architecture in the UK to be professionally recognised, Management C'ttee of the MSt. in Interdisciplinary Design, Chairman of the Kettles Yard Fund Awarders and of the Edward S.Prior Prize Awarders, Director of the Professional Practice Committee 2011-, Cambridge University Board for Professional and Executive Education, Northwest Cambridge Development Appointments Panel 2012-.
- **Professorial Fellow, Clare Hall, Cambridge**, 2002- present
- Member of the College Council 2014-, Official College Fellowship Committee 2004-5 and 2014-, Buildings Committee 2002-present, Fellowship Committee 2006-2012, Elector for Presidency 2007-08, 2012-13 Tanner Committee 08-, Strategy Review Committee 2011-13.
- **George Collins Fellow 2014** of the Society of Architectural Historians, USA.
- **Geddes Fellow 2014** Edinburgh University
- **'Academic Leader'** and **'Distinguished Professor'**, National Centre for international Research in Low-carbon and Green Buildings Chongqing University 2013-
- **Adjunct Professor**, Queensland Institute of Technology 2009-11
- **Dean of the Faculty of Art & Design**, De Montfort University 1998- 2001, Member of the Senior Executive, Chairman of the University Estates Committee, Chair of numerous Faculty Committees.
- **Guest Lecturer** at **Carnegie Mellon Institute** 1998, **MIT** 1997 & 2000, **Stanford University** 1996, **Berkeley** 2000, **Yale** 2001, **US Environmental Protection Agency Chicago and Washington** 2002, **Judson University Chicago** 2005, 2007, **Chongqing University** 2007 and 2013, **La Villette Paris** 2008-, Cambridge University Alumni Groups 2008-09: Hants, Wilts, Northeast, **Australian National University** 2009, **St.Catherines College Oxford in Kobe** 2010, **University of the United Arab Emirates** 2010, **Tsinghua University** 2010, **Ecole Nationale Supérieure d'Architecture Paris-Belleville** 2012, **Berkeley** 2012, **Lawrence Berkeley National Lab.** 2012, **Visiting Professor of Architecture**, De Montfort University 1994-1998.
- **Visiting Assistant Professor**, Washington University, St Louis, USA, 1989-1990.
- **UK RIBA Representative** on The Commonwealth Association of Architects Visiting Board 1995 for the CEPT School in Ahmedabad and the New Delhi University School of Planning and Architecture.
- **External Examiner** Architectural Association 2012-, National University of Singapore 2007-10, Manchester University School of Architecture 1996-98, University of Moratuwa, Sri Lanka 1997. Cambridge University School of Architecture, Part 1B, 1990-1993.
- **George Simpson Visiting Critic** Edinburgh University 1994-5.
- **Part time Studio Tutor** variously at University of Edinburgh, University of Manchester, Leicester Polytechnic, and appearances as studio critic/tutor at the Royal College of Art, University College London, Portsmouth University, University of Wales, Cardiff, University of Humberside & Lincolnshire, Reading University, University of East London, University of North London and Kingston University.
- **RIBA Sustainable Futures Committee**, member 1999- 2003.

RESEARCH GRANTS, AWARDS and PANEL MEMBERSHIP

- Reporting to Ministers on the implementation of the **NHS Energy Efficiency Fund** 2013-14
- Appointed **Advisor to the World Health Organisation**, 2013-
- Academic Assurance Member of the **UK Department of Health Energy Efficiency Working Group** 2013-
- **RIBA President's Award for 'Outstanding Professional Practice-located Research' 2007** for the project **'Design for the warming environment', the first such award.**
- **RIBA President's Commendation for 'Outstanding University-based Research' 2009** for the National Institute of Health Research (NIHR) funded project, **'Design strategy for the low-energy ventilation and cooling of health buildings'** (Only winner to date of both the Practice and University research awards).
- P.I for **'Designing Dynamic Environments for the Performing Arts'** (DeDepa) Arts and Humanities Research Council (AHRC) 2004-7 (**£353K**) in conjunction with Prof. Peter Barrett P-V-C (Research) University of Salford. Project Team subsequently appointed by Arts Council of England (ACE) and the Commission for Architecture and the Built Environment (CABE) to write the new Guidance for Capital Arts Projects, **'Building Excellence for the Arts'**, on-line May 2009.
- P.I for **'Design Strategy for low energy ventilation and cooling of health buildings'**, National Institute for Health Research (NIHR), Department of Health, Estates and Facilities Division Research and Development Fund 2007-09, (**£265K**) with BP Institute, Cambridge, IESD Leicester, Davis Langdon and senior NHS personnel.

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- PI for NIHR funded '**Watford Acute Hospital: Public Sector Comparator**', application of NIHR project findings to proposed 600 bed new hospital for W.Herts NHS Trust (£184K).
- PI for **Adaptation and Resilience to Climate Change (ARCC) project 'Design and Delivery of Robust Hospital Environments in a Changing Climate'** (DeDeRHECC) EPSRC (£1.05 million) with matching £120K from NHS Trusts including £10K from the Dept. of Health (EPSRC £973k), 2-stage bid through 2008 awarded March 2009 for commencement October 2009. Co-I's. Prof. John Clarkson, Engineering Design Centre Cambridge Univ.; Prof. K. Lomas, Loughborough; Dr. Claudia Eckert, Open University; Dr. Cath. Noakes, Leeds University.
- 'Vivacity', EPSRC Sustainable Urban Environments programme, 2003-08 PI Prof. Rachel Cooper, University of Lancaster, member of Steering Group.
- 'Design for the 21st Century' AHRC/EPSCRC joint funded programme 2005-09 member of Advisory Committee.
- *Department of Health*: member MBE KTN Board for Health, Board member.
- *NHS Design Review Panel*, member 2004-10.
- *Department of Health*, Health Technical Memorandum (HTM) 07/07, Advisory Panel member.
- *Foresight Programme, Mental Capital and Wellbeing, State of Science Review*, 'The effect of the physical environment on mental wellbeing', Panel member.
- Nominated as an 'Expert of international standing' by the Australian Research Council for peer review 2008.
- International Expert by Austrian Research Council 2014
- Appointed to Editorial Board of '*Building Research and Information*', research journal, Taylor and Francis, 2011-
- Appointed to Editorial Board of '*Building*' Basle, 2011-
- Appointed to Editorial Board of '*Building Engineering*', 2014
- Dept. of Health Energy Efficiency Fund Working Group, apptd. Member 2012 -
- EPSRC, ESRC, AHRC, LWEC 'Health and Wellbeing' Call Panel Member 2012-13

SUPERVISION OF GRADUATE RESEARCH STUDENTS

- Fair, A.J. 2004-08 'English Theatres 1927-1972, PhD passed *without correction*, AHRC Studentship
- Schoenefeldt, H. 2007-11 'Transformation of the Horticultural Glasshouse Prototype for Human Habitation' MPhil 2006, PhD 2011, RIBA Ozolins Scholar 2007, Kurt Hahn Scholar 2006.
- Mingotti, N. 2011- 'Potential for Ventilation heating and cooling through various types of double façade' PhD
- As founding Director of the MPhil in Environmental Design in Architecture Option B, first supervisor to 24 MPhil students.

INTERNATIONAL PEER-REVIEWED JOURNAL PUBLICATIONS 2004-

- 25. Short C.A., Gilkeson C.A., Noakes J. (2015) *Recovering natural hospital environments: Billings and Folsom*, Chicago, Journal of Society of Architectural Historians (*in review*)
- 24. Short C.A., Lomas K.J., Renganathan G., (2015) *A medium-rise 1970's maternity hospital in the east of England: resilience and adaptation to climate change*, Building, Services, Engineering, Research, Technology, special issue 'Indoor Temperature and Air Quality', *in press*.
- 23. C.A.Short, M.C. Georgiadou, P.M. Guthrie, P.J. Solanki, K.Macaskill, D.T.Godoy-Shimizu (2015) *NHS Estate: Energy Efficiency Policy and Practice*, Building Research & Information, *in press*
- 22. C. Alan Short, Catherine J. Noakes, Carl A. Gilkeson (2014): *Functional recovery of a resilient hospital type*, Building Research & Information, DOI: [10.1080/09613218.2014.926605](https://doi.org/10.1080/09613218.2014.926605)
- 21. R. Giridharana, K.J. Lomas, C.A. Short, A.J. Fair (2013) '*Performance of hospital spaces in summer: A case study of a 'Nucleus'-type hospital in the UK Midlands*', Energy and Buildings 66 (2013) 315–328
- 20. C.Alan Short, YAO Runming, LUO Guozhi, Li Baizhan (2013) '*Hybrid Environmental Design as an Alternative to Full Air-Conditioning in the Continental Climate :A Case Study in Beijing*', Ecocity & Green Building, Beijing
- 19. Short C.A., Yao R., Luo G. ,Li B (2012) '*Exploiting a Hybrid Environmental Design Strategy in the Continental Climate of Beijing*', International Journal of Ventilation ISSN 1473-3315 Volume 11 No 2, pp.105-130
- 18. Short, C.A., Lomas, K.J., Renganathan, G., Fair,A. (2012) '*Building resilience to overheating into 1960's UK hospital buildings within the constraint of the national carbon reduction target: adaptive strategies*'. Building and Environment, doi:10.1016/j.buildenv.2012.02.031, pp.1-23
- 17. Lomas, K.J., Giridharan, R., Short, C.A., Fair,A.J. (2012) '*Resilience of 'Nightingale' hospital wards in a changing climate*', Building Serv. Eng. Res. Technol. 33,1, pp. 81–103
- 16. Short, C. Alan, Cook, Malcolm , Cropper, Paul C. and Al-Maiyah, Sura (2010) '*Low energy refurbishment strategies for health buildings*', Journal of Building Performance Simulation,
- 15, Short C.A., Cook M., Lomas K.J. (2009) '*Delivery and performance of a low-energy ventilation and cooling strategy*', Building Research and Information, 37 (1), January – February, pp. 1-30.
- 14. Short C.A., Al-Maiyah S. (2009) '*Design Strategy for low energy ventilation and cooling of hospitals*' Building Research and Information, (2009) 37(3), pp.1–29.doi: 10.1080/09613210902885156
- 13.Short, C.A., Cook, M.J., Woods, A. (2009) '*Low energy ventilation and cooling within an urban heat island*', Renewable Energy, Renewable E: doi: 101016/j.renene.2009.02.013
- 12. Lomas, K.J., Cook, M.J., and Short,C.A. (2009) '*Commissioning hybrid advanced naturally ventilated buildings: a US case study*', Energy and Buildings
- 11. Yao R., Li B., Steemers K., Short A., (2009) '*Assessing the natural ventilation cooling potential of office buildings in different climate zones in China*,' Renewable Energy, doi: 10.1016/j.renene.2009.05.015

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- 10. Lomas K.J., Cook M.J., & Short C.A., (2008) '*Commissioning hybrid advanced naturally ventilated buildings: a US case study*', NCEUB 2008 Proceedings
- 9. Short C.A. (2008) '*What is Architectural Design Research?*' Building Research and Information Vol 36, Issue 2, March 2008, p195-199
- 8. Short C.A. (2008) '*Geometry and Atmosphere: the conundrum of Building for the Arts*' in the series 'The importance of Arts & Humanities to life in the UK', essay commissioned by the Chief Executive of the AHRC
- 7. Short, C.A., Barrett, P., Dye A., Sutrisna, M., (2007) '*Impacts of value engineering on five capital arts projects*', Building Research and Information, 35(3), pp. 287–315.
- 6. Short, C.A., Lomas, K., (2007) '*Exploiting a hybrid environmental design strategy in a US continental climate*', Building Research and Information, 35 (2), pp. 119-143
- 5. Short, C.A., Whittle, G., Owarish, M., (2006) '*Fire and Smoke control in naturally ventilated buildings*', Building Research & Information, 34 (1), pp. 21-54
- 4. Cook, M.J. and Short, C.A., (2005) '*Natural Ventilation and Low Energy Cooling of Large, Non-domestic buildings – four case studies*', The International Journal of Ventilation, 3 (4), March, pp. 283-
- 3. Short, C.A. and Cook, M.J., (2005) '*Design guidance for naturally ventilated theatres*', Building Services Engineering Research and Technology, Hodder Arnold, 26 (3), September, pp. 259-270
- 2. Short, C.A., (2004) '*A typology of design strategies for low energy, efficient, deep plan public buildings in various climates*', World Architecture, in: L. Hao ed. Tsinghua, Beijing
- 1. Short, C.A., Lomas K.J., Woods, A., (2004) '*Design strategy for low energy ventilation and cooling within an urban heat island*', Building Research and Information, 32 (3), May - June, pp. 187-206

BOOKS

- Short C.A., Barrett P., Fair A. (2011) '*Geometry and Atmosphere*', Gower Ashgate
- Cook M., Short C.A. (2009) '*Natural Ventilation of Auditoria: Three Case Studies*'. In '*A Handbook of Sustainable Design and Engineering: integrated approach to energy, health, and operational performance*' Eds. Dejan Mumovic and Mat Santamouris 448 pages 978-1-84407-596-6 December 2008.
- Short, C.A. (2009) '*Sustainable design in an urban context: three case studies*', *Sustainable Urban Design, An Environmental Approach (2nd ed.)*, pp.133-141 Taylor & Francis. London.

GOVERNMENT REPORTS

- NHS Energy Efficiency Fund: Final Report to Ministers, submitted Oct 2014
- Short, C.A. (PI) (2008) *National Institute for Health Research* NIHR 'Design Strategy for low energy ventilation and cooling of health buildings' Final report August 2008.
- 'Building Excellence in the Arts: a guide for capital arts project clients (2009) Commission for Architecture and the Built Environment (CABE)/Arts Council of England, web-based, 96 pages.

RECENT EXHIBITIONS

- '50 Years of London Architecture 1960-2010', The Architecture Club, The Mall Galleries 2010 (The SSEES Building).
- 'Fifty Buildings 50 Years', RIBA 2010, (The Queens Building Leicester).
- 'Les Ressources de L'Architecture pour la Ville Durable', Ecole Nationale Supérieure d'Architecture Paris-Belleville Paris, January 2012. (including the SSEES building, Lanchester Library, Judson University, Future House Beijing).

RECENT CONFERENCES/SEMINARS

- Society of Architectural Historians Annual Conference, Austin Texas 2014
- University of Edinburgh Geddes Fellow Annual Public Lecture 2014
- Public Health Network Vice-Chancellor's Launch Seminar, Cambridge University 2013
- RIBE Seminar University of Reading 2013
- World Health Organisation, 'Greening Healthcare Systems', speaker, Bonn, Aug 2013
- National Centre for international Research in Low-carbon and Green Buildings Chongqing University Launch Event and conference April 2012, appointed 'Academic Leader' of the new Centre
- Innovations in Sustainable Building 2012, chair and keynote, 1 Department of Engineering, University of Cambridge
- 'Greenbuild 2011, Toronto, speaker
- 'Brickstainable Awards' Washington, 2011, keynote speaker
- IHEEM Bradford 'Sustainability and the NHS' invited speaker, 2011
- Contributor to 'Sustainable Buildings in 2030' Cambridge 2011.
- Invited participant Climate Impact Programme ACN Seminar for DEFRA/CLG : Overheating in Buildings, Neighbourhoods and Cities 2011.
- Invited participant 'Economic and Ethical Implications of Low Carbon Health and Social Care', series of meetings at the Kings Fund.
- Speaker 'Adapting our Built Environment: ARCC Contributions and Challenges, St.Catherine's College Oxford.
- BBC Cambridgeshire, 'Naked Scientist' programme, interview and lab. demonstration, aired Oct 17th 2010
- 13th Symposium of the Building Technique Committee, Tsinghua University, Beijing September 2010, Keynote speech.
- Chair: Inside Government, 'Sustainability in the NHS: Reducing Carbon, Enhancing Health Forum' Kings Fund 2010
- National Institute for Health Research Physical Environment Programme, Research Networking Event, presentation on NIHR and EPSRC funded work on low energy hospital design, DoH, 2010
- 'Embedding Sustainability in the NHS', expert evidence, Commission for Architecture and the Built Environment 2010

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- St.Catherine's College Oxford, Kobe, Japan, 'Workshop on the Ageing Population and Climate Change' 2010, invited participant funded by DAIWA Corp.with the Oxford Institute of Ageing, Helen Hamlyn Centre RCA and the Robens Institute Univ. of Surrey
- Energy Efficiency and Airflow in the Healthcare Sector. The BRE Innovation Park, Watford, 23rd February 2009.
- CABE Learning Lab for Primary Care Trusts: Achieving quality, sustainable design for integrated community facilities, 'Making sustainability work in community health facilities'. Kentish Town Health Centre London, 11th March 2009.
- Building Physics and the Sustainable Cities Conference, 'Design for the warming environment'. Department of Engineering Cambridge University, 17th March 2009
- SHINE Low and zero carbon healthcare buildings, 'Where can we get to?'. London South Bank University, 25/03/09
- Environmental Engineering and Architecture, 'Experiences in building natural ventilation'. The School of Architecture of Paris La Villette, 9th April 2009.
- Hospital Building Conference (22nd April 2009). 'Sustainability and low-energy hospital design in Great Britain', FUHU Conference Centre Copenhagen, Short C.A. (2008) 'PASSIVE AND HYBRID ENVIRONMENTAL STRATEGIES FOR PUBLIC BUILDINGS', The World Renewable Energy Congress 2008: Low Energy Architecture, Glasgow, Scotland.
- East of England Strategic Health Authority (October 2nd 2008) BP Institute and St John's College Cambridge. List of attendees: Chief Executive NHS East of England Sir Neil McKay, NHS Trust Chief Exec. Jan Filochowski, David Pencheon Director NHS Sustainable Development Unit, Rob Smith Director Dept of Health Estates
- Short C.A. (2007) 'LOW ENERGY VENTILATION AND COOLING OF URBAN BUILDINGS', The International Conference on Sustainable Development in Building and Environment, Chongqing, China.
- Short, C.A., (2006) HYBRID NATURAL/ MECHANICAL ENVIRONMENTAL DESIGN STRATEGIES FOR LOW ENERGY BUILDINGS ACROSS A SPECTRUM OF CLIMATES, memoir of the 2nd International Conference on Intelligent Green and Energy Efficient Building, China Architecture, Building Press Beijing
- Short, C.A., (2005), 'HEALTHCARE DESIGN FOR THE FUTURE – DEVELOPING VIABLE SUSTAINABLE DESIGN STRATEGY FOR HEALTHCARE BUILDINGS,' a report for Business Briefing; Hospital Engineering and Facilities Management, Issue 2.
- Barrett, P., Short, A., Sterry, P., Sutrisna, M., and Toker, Z. (2005), 'BRIEFING FOR ARTS CONSTRUCTION PROJECTS: CAPTURING THE NEEDS OF ARTS CLIENTS', In: Kazi, A. S. (Ed.), Volume 3: Systematic Innovation in the Management of Construction Projects and Processes, CIB 2005 Symposium: Combining Forces.

PRACTICE

Chairman, Short & Associates, (Short, Ford & Associates 1992 to 1997) 1992-Present

- **Future House Beijing**, Headquarters building for exposition of sustainable construction, hybrid environmental strategy, due for completion early 2014.
- **21 Arlington St.** rebuilding of 1736 Leoni villa 2010-13
- **Regents University 2009-present New Post-graduate Research Centre, Enclosure of main quad.**
- **New UCL School of Slavonic and East European Studies building, Central London:** competition win 2002; completed January 2006; 37,500 ft²; £14 million; opened by the Princess Royal, President of the Czech Republic, foundation stone laid by the President of Poland. **First passive draught-cooled public building** in a city centre, with inputs from the BP Institute, Cambridge and the Institute of Energy and Sustainable Development (IESD), Leicester. All new home for distinguished research and teaching institute with a rare and valuable library. **SCONUL Award: Best Library, Commendation, 2007, RIBA Award 2006, Brick Development Association 'Public Building of the Year 2006', CIBSE 'Environmental Initiative of the Year Award 2006', RIBA President's Research Award for 'Outstanding Professional Practice-located Research 2007', The Worshipful Company of Tylers & Bricklayers, Triennial Award for Excellence in Brick, Commendation 2008.**
- **62 and 63 Pall Mall, St. James, London for Berry Bros. and Rudd**, listed building consent and full detailed planning permission for 2071m² of rebuilding and new building in the St. James Conservation Area, construction commences mid 2012.
- **21 Arlington Street, St. James, London** listed building consent and full detailed planning permission for restoration of undercroft to Grade 2* listed Leoni neo-Palladian mansion.
- **Conservation Management Plan for the Belgrade Theatre Coventry**, England's first postwar theatre, receiving £1 million from Heritage Lottery Fund for restoration of original building.
- **New Academic Centre for Judson College Chicago, Illinois, USA;** international competition win spring 2001; completed 2007; 75,000 ft²; \$25 million; new learning and teaching centre combining the college library, school of architecture and, art and design faculty, hybrid strategy to minimise dependence on mechanical cooling, a translation of the Coventry Library technology to a more extreme climate with environmental simulations by IESD, De Montfort University. **Awarded \$7.5 million by the US Department of Energy, \$300K by Illinois Clean Energy Foundation, \$800K by the Kresge Foundation**, also featured in the **RIBA Research Award 2007, accredited LEED Gold Status 2009, US Building Design and Construction Team Awards 2009 Special Recognition, US National Pre-Cast and Prestressed Concrete Institute Design Awards 2009 Honourable Mention.**
- **Chadwick Centre Berkhamstead Collegiate Schools: Best Landscape Design, National Brick Development Association Awards 2009**

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- **Braunstone Health and Social Care Centre, Leicester**; competition win 2001, 40,000 ft², £4.3 million; funded through the New Deal for Communities, to house 7 clinical and social services, passively pre-cooled and pre-warmed by below ground labyrinth, DoH exemplar project, SHINE Case Study.
- **Lichfield New Garrick Theatre, Staffordshire**; international competition win October 1999; completed 2003; £5 million; for Lichfield District Council. Awarded £0.85 million by the European Regional Development Fund January 2002. Two naturally conditioned auditoria for 500 and 110 respectively, within the historic city centre conservation area, devised with IESD, De Montfort University. DTI M4I Case Study Project, **CIBSE Project of the Year 2004**.
- **Poole Arts Centre (The Lighthouse), Dorset**; international competition win May 1999; completed October 2002; £8.5 million; awarded £6.5 million by the Arts Council Lottery Fund 2001; sustainable rebuild of 1974 arts centre including the Wessex Hall, home of the Bournemouth Symphony Orchestra, for Poole Arts Limited. **RIBA Award 2003, CIBSE Project of the Year 2003**.
- **New Library and Learning Resource Centre for Coventry University**; international competition win September 1996, completed September 2000, 110,000ft², £18 million, opened by the Princess Royal Nov. 2001; **first naturally conditioned deep plan building in the world** devised with the IESD at De Montfort University and the Building Physics Research Unit at the University of Wales, Cardiff. **SCONUL Best Library since 1995 Award, 2002**. Awarded **Building Magazine and Brick Development Association, 'Building of the Year 2001'**.
- **New Pharmaceutical Research Laboratories; Ahmedabad, India**; selected 1994; completed 1996; for the Torrent Corporation; **first evaporatively cooled public building in the world**, intended to be a prototype workplace for hot climates.
- **Contact Theatre, Manchester**; national competition win 1993; completed October 1999; 40,000 ft²; £3.7 million; radical rebuilding as a naturally conditioned performance building with three auditoria. Winner of the first major Arts Council of England Lottery award for the Northwest, £4.5 million, November 1995, and second award of £0.38million 1997; **RIBA Award 2000, shortlisted for the Building of the Year Award 2000**, and **the RIBA Journal Environmental Building of the Year Award 2000, won Manchester Civic Society Green Building Prize 2000**. Passive design developed with the Building Physics Unit of the School of Architecture at the University of Wales who conducted wind tunnel modelling and computational fluid dynamics simulation.
- **Coventry Arts and Media Centre, Coventry**; international competition win January 1996; 140,000 ft²; £16 million Arts Centre for Coventry City Council, Coventry University and various West Midlands media training stakeholders; Arts Council awarded £0.25 million but cancelled project September 1998 prior to tender.
- **The Firs, Residential Conference and Teaching Centre for the University of Manchester**; international competition win; completed March 1997; 40,000 ft²; £4.5 million; conference learning and teaching centre set in Sir Joseph Whitworth's blanket-listed estate and mansion in Fallowfield. **Civic Trust Commendation**.
- **The Queens Building, The New School of Engineering and Manufacture for De Montfort University, Leicester**; completed August 1993; 100,000ft²; £9.3 million; opened by the Queen December 1993. Awarded The Independent Newspaper **'Green Building of the Year 1995'**, **RIBA Award 1995**, the **'Quality in Brickwork Award 1994'**, **Civic Trust commendation 1995, shortlisted for the Royal Fine Art Commission and The Sunday Times 'Building of the Year Prize 1994'**, and **RIBA Education Building of the Year 1995**. Sustainable aspects of design developed with the Dept. of Applied Mathematics and Theoretical Physics at the University of Cambridge, and the Institute of Energy, Leicester School of Architecture. Published widely internationally.
- **New Brewery Process Building for Simonds, Farsons, Cisk Ltd in Malta**; 1986-1990; £8 million; passively cooled industrial building; **First Prize in Architecture Today's 'High Architecture, Low Energy Awards 1991'**, **finalist in Design Museum Design Sense Award competition 2000**; passive solar strategy developed with the Martin Centre, University of Cambridge, published widely in Europe and USA, (Newsweek, New Scientist, Observer).

Peake Short & Partners, with Anthony Peake

1986 - 1992

John Lewis Partnership; High Wycombe, national competition win for first out of town department store in Britain for JLP; 1987-1988; 190,000ft²; £28 million; project directors Sir Stuart Hampson and John Carpenter.

Commonwealth Institute; Holland Park, London, 1988-1989. Development studies commissioned by the Foreign Office.

Edward Cullinan Architects,

1980 - 1986

recruited 1980, elected to partnership January 1981,

Member of design teams for the rebuilding of the **Parish Church of St Mary, Barnes; The Queen Elizabeth II**

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Theatre and Art School for Winchester College; Uplands Conference Centre, Hughenden Valley, High Wycombe; (all Civic Trust award winners) and the rebuilding of Fleet Comprehensive School, Hampshire

PUBLICATION OF WORK SINCE 1986:

Reviews by critics, project accounts and research papers by Short and others, arranged chronologically by building.

Process Building for Simonds Parsons Cisk Ltd., Mriehel, Malta, 1986-1990

- Short C.A. and Ford B., (1988) 'PASSIVE COOLING OF A NEW BREWERY PROCESS BUILDING IN MALTA'. pp. 515-520, 'ENERGY AND BUILDINGS FOR TEMPERATE CLIMATES, A MEDITERRANEAN REGIONAL APPROACH'. In: E. Oliveira Fernandes and S. Yannas ed. Proceedings of the Sixth International PLEA Conference Porto, 1988, Portugal', Pergamon Press
- Rickaby, P. (1991) 'THE ART OF ENERGY: PEAKE SHORT AND PARTNERS IN MALTA', *Architecture Today*, 14, January, pp. 34-43, photographs by Peter Cook.
- Swenarton, M., (1992) 'AWARDS; LOW ENERGY-HIGH ARCHITECTURE FIRST PRIZE', judges report by Mark Swenarton, William Bordass, Ian Latham, Robin Spence, Colin St. John Wilson, *Architecture Today*, 24, January, pp. 26-33.
- Evans, B., (1993) 'AN ALTERNATIVE TO AIR-CONDITIONING', *The Architects' Journal*, 10 February, pp. 55-58.
- Pagliari, F., (1991) 'PER ECONOMIZZARE ENERGIA, A LOW ENERGY BUILDING', *L'ARCA*, October, Milan
- Arcidi, P., (1991) 'BUILT BY STONE AND COOLED BY NATURE, Processing Hall, Parsons Brewery, Malta', *Progressive Architecture*, editorial 'PA Inquiry: Agents of Industry', December, Cleveland, Ohio, USA: Rheinhold, pp. 64-72
- *The Times of Malta* (1992) 'BREWERY PROCESS BLOCK WINS INTERNATIONAL AWARD', 21 February, editorial.
- Barber, N., (1992) 'FACING THE FUTURE: BUILDING FOR TOMORROW', Evans Brothers Ltd.
- Phillips, A., (1993) 'THE BEST IN INDUSTRIAL ARCHITECTURE DESIGN', Quarto Pro-Art Library series
- Darley, G., (1993) 'A SMART NEW LINE IN MEDITERRANEAN COOL', *The Observer*, Review Section 17 October, p. 11
- Mackenzie, D., (1991,1997) 'GREEN DESIGN, DESIGN FOR THE ENVIRONMENT', London: Laurence King, pp. 52-55
- Menagh, M., (1995) 'BETTER BUILDING FOR THE PLANET, SUSTAINABLE ARCHITECTURE COMES OF AGE', *Newsweek*, 6 November
- Schneider, A., (1996) 'SOLARARCHITEKTUR', Parsons Brauerei, Malta, Basel: Birkhauser Verlag, pp. 106-7
- Thompson, P., (1999) 'DESIGN MUSEUM, DESIGN SENSE', Design Museum, London, Exhibition and Catalogue, 'Parsons Process Building, Malta' November 1999, finalist in first Design Sense Award competition, on exhibition at the Design Museum.

Film/Television

- Fechner C., Angerer J. and Schneider, A., (1995) 'SOLARARCHITEKTUR FUR EUROPA', Berlin: Focus Films, Immendingen

Department Store for the John Lewis Partnership 1987-8,

Alan Short and Anthony Peake, with Juliet Odgers and Philip Meadowcroft. National competition win for the first out-of-town department store in Britain, January 1987, completed November 1988, publication embargoed for two years by client for commercial reasons.

- Woodward, C., (1990) 'PLAYFUL MODERNISM', *Architecture Today*, 11, September, photographs by Martin Charles

Gateway House 1989-90,

Alan Short, Brian Ford and Peter Sharratt; 170,000 sq. ft, seven storey refurbishment for Leicester Polytechnic, with an emphasis on control of solar gain and glare.

- Weatherhead, P., (1992) 'SHADED BY ANGELS' WINGS', *BUILDING*, 29 May

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The Fletcher Building 1991-3

Alan Short, Brian Ford and Peter Sharratt, new energy-efficient cedar envelope for 1962 low-rise CLASP system building housing the School of Design and Manufacture, De Montfort University,

- Dawson, S., (1993) 'CEDAR OVERCOAT FOR CLASP' *The Architects' Journal: FOCUS* supplement, December, pp. 11-13.

Templeway House 1992-93,

Alan Short, Brian Ford and Peter Sharratt; DTI/DOE sponsored research exercise to devise a sustainable dilapidations refit for the Clerical and Medical headquarters in Bristol, with Halcrow Gilbert Associates, Bae SEMA and Davis Langdon and Everest's Research Department.

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