###### *EDUCATION*

**- The Lower School of John Lyon, Harrow-on-the-Hill:** *academic**scholarship -* **Cambridge University, Trinity College 1974–1977:** *senior scholarship,* First Class Honours degree, first in year, University Edward S. Prior Prize, CollegePrizeman - **Harvard University Graduate School of Design 1978-1979:** Exchange Fellowship - **Cambridge University MA 1979–80:** Diploma in Architecture, First Class, first in year; **Ph.D**. **2012-17**, *'The Recovery of Natural Environments in Architecture'*, under Special Regulations, Examiners: Prof. Anne Greta Hestnes, Norwegian University of Science and Technology and Prof. Christopher Tweed, Cardiff University.

# *ACADEMIC*

* **The Professor of Architecture (1977), University of Cambridge:** Cambridge Infectious Diseases Interdisciplinary Research Centre Steering Group 2017-present; Senior Associate of the Cambridge Institute for Sustainability Leadership 2018-; Institute of Continuing Education Strategic C'ttee. 2015-2018; University Board of Executive and Professional Education 2015-present; University Buildings Committee 2001-2016; NW Cambridge Dev. Masterplan Appointments C’ttee 2009-10; Chair Faculty Promotions C’ttee. 2008-09; 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-present; Founding Director of the MPhil in Environmental Design in Architecture the first Graduate Research Degree in Architecture in the UK to be professionally recognised; Management C’ttee of the MSt. in Interdisciplinary Design 2002- 2018; Chairman of the Kettles Yard Fund 2002-.
* **Vice-President, Clare Hall, Cambridge** 2018-2022**: Professorial Fellow** 2002-**;** Member of the College Council 2014-; Development Cttee. 2015-; Buildings Committee 2002-present; Strategy Review Committee 2011-13.
* **Ministry of Education Distinguished Professor,** **P.R. China** 2018 - .
* **Guest Professor, Zhejiang University**, Hangzhou **P.R. China** 2019 - .
* **Royal College of Paedriatrics:** member **Working Group Indoor Air Quality on Children and Young People's Health across the Life Course** 2018-19.
* **George Collins Fellow 2014** of the **Society of Architectural Historians**, **USA**.
* **Geddes Fellow 2014, Edinburgh University.**
* **‘Ministry of Education Expert Professor’**, **International Co-Chair,** **National Centre for international Research in Low-carbon and Green Buildings,** based at Chongqing University, P.R.China, 2013-.
* **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 all major Faculty Committees: 3500 students, 450 staff.
* **Guest Lecturer** at **Carnegie Mellon Institute** 1998; **MIT** 1997 & 2000; **Stanford** **University** 1996; **Berkeley** 2000; **Yale** 2001, 2004; **US Environmental Protection Agency Chicago and Washington** 2002; **Judson University** **Chicago** 2005, 2007; **Chongqing University** 2007, 2013, 2017; **La Villette Paris** 2008-; **Australian National University** 2009**; St.Catherines College Oxford in Kobe** 2010; **University of the United Arab Emirates** 2010; **Tsinghua University** 2010; **Ecole Nationale Superieure d’Architecture Paris-Belleville** 2012; **Berkeley** 2012; **Lawrence Berkeley National Lab.** 2012; **Cambridge in Germany, Oxford in Berlin,** 2018**.**
* **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** Reading University 2018- 21, Newcastle University 2014-19, Architectural Association 2012-2016, National University of Singapore 2007-10, Manchester University 1996-98, University of Moratua, Sri Lanka 1997. Cambridge University Part 1B, 1990-1993.

*RESEARCH GRANTS, AWARDS and PANEL MEMBERSHIP*

- **Ministry of Education, People’s Republic of China, National Education Achievement Award for Teaching**

**and Learning** **2018** No.21, awarded every four years, with Profs. Baizhan Li and Runming Yao.

- **The Chartered Institute of Building Services Engineers (CIBSE)** **Carter Bronze Medal 2016** (best paper 2016).

- **P.I. for *Excising Infection in Surgical Environments*****(ExISE)** 2017-19, funded by the **AHRC** from cross council

**Antimicrobial Resistance AMR** call **(£248k)**, with the BP Institute for Multiphase Fluid Flow, the Interdisciplinary

Research Centre in Infectious Diseases & the Dept. of History of Art at the University of

Cambridge, History at Kings College, Leeds University's Engineering Department and the Royal College of

Surgeons.

- **P.I. for *‘Low carbon climate-responsive Heating and Cooling of Cities’ (LoHCool)*** 2015-19 in the **EPSRC-**

**NSFC** **Low Carbon Cities Call** (**£987k + equivalent in China**) with the University of Cambridge Department of Engineering, Chongqing University,Zhejiang University, University of Reading, the University of Cambridge Institute of Atmospheric Physics and Loughborough University's Department of Civil and Building Engineering.

- Managing the **NHS Energy Efficiency Fund** 2013-14 for the **UK Department of Health** with the Professor of

Sustainable Engineering CUED, adjudicating the distribution of the £50 million Fund across NHS England, reporting

to the Under-Secretary of State for Health and Lord Carter of Coles. Executive Summary published February 2015

at: <https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/407160/EEF.pdf>.

- Redrafting the guidance on energy efficiency for the NHS with UoC Prof of Sustainable Engineering and the Centre

for Sustainable Development, **Health Technical Memorandum (HTM) 07-02**, published in March 2015 at:

<https://www.gov.uk/government/publications/making-energy-work-in-healthcare-htm-07-02>.

- 'Academic Assurance' Member of the **UK Department of Health Energy Efficiency Working Group** 2013-

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- **tv/e Global Sustainability Film Award 2013 at BAFTA** for ***‘Robust Hospitals in a Changing Climate’,*** full

version at [www.sms.cam.ac.uk/media/1446036](http://www.sms.cam.ac.uk/media/1446036), 10 minute version <http://sms.cam.ac.uk/media/1559781>

**- RIBA President’s Award for ‘Outstanding Professional Practice-located Research’ 2007** for the project

‘***Design for the warming environment’,*** the inaugural 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 RIBA President's 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.
* ‘***Building Excellence for the Arts’*** **Arts Council of England (ACE)** and the Commission for Architecture and the Built Environment (CABE), Guidance for Capital Arts Projects, 2009, Short C.A ., Barrett P., Fair A., MacMillan S.
* **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.

- **P.I. 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).***

- **P.I.** for ***Adaptation and Resilience in the Context of Change (EPSRC-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), 2009-14. Co-I’s. Prof. John

Clarkson, UoC Engineering Design Centre; Prof. K. Lomas, Loughborough University; Dr. Claudia Eckert, Open

University; Dr. Cath. Noakes, Pathogen Cotrol Research Centre, Dept. of Engineering, 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/EPSRC joint funded programme 2005-09 member of Advisory Committee.

* ***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.
* Nominated International Expert by Austrian Research Council 2014
* Appointed to Editorial Board of *’Building Research and Information’,* research journal, Taylor and Francis, 2011-18
* 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

***INTERNATIONAL PEER-REVIEWED JOURNAL PUBLICATIONS Since 2004*.**

34. Xinyi Li, Runming Yao,,Wei Yu, Xiangzhong Meng, Meng Liu, Alan Short, Baizhan Li(2019) Low carbon heating and cooling of residential buildings in cities in the hot summer and cold winter zone - a bottom-up engineering stock modeling approach, *Journal of Cleaner Production.*

33. Colin Porteous (2018): The significance of natural ventilation, *Building Research & Information,* DOI:10.1080/09613218.2018.1500005. https://doi.org/10.1080/09613218.2018.1500005. Published online: 17 Aug 2018. Detailed review and commentary of Short C A (2017) The Recovery of Natural Environments in Architecture.

32. Xinyi Li, Runming Yao, Meng Liu, Vincenzo Costanzo, Wenbo Wang, Alan Short, Baizhan Li(2018) Developing urban residential reference buildings using clustering analysis of satellite images, *Building and Environment.*

31. Linden P., ...Short C.A *et al* (2018) Sustainable design: the implications of fluid mechanics, Building Research and Information Special Issue - Urban Form Density and Microclimate, Taylor and Francis.

30. C. A. Short, J. Song, L. Mottet, S. Chen, J.Wu & J. Ge (2018) Challenges in the low-carbon adaptation of China's apartment towers, *Building Research & Information*, 46:8, 899-930, DOI: 10.1080/09613218.2018.1489465  Special Issue - Urban Form Density and Microclimate, Taylor and Francis

29. C. Alan Short, Baizhan Li, Mehdi Shahrestani (2018) Editorial, Climate responsive solutions to heating and cooling of buildings, *Journal of Building Engineering,* Special issue,Volume 15, January 2018, Page 289

28. C. Alan Short (2018) The Recovery of Natural Environments in Architecture: Delivering the Recovery, *Journal of Building Engineering,* Volume 15, January 2018, Elsevier, DOI [10.1016/j.jobe.2017.11.014](https://doi.org/10.1016/j.jobe.2017.11.014)

27. Short C.A., Drumright L., Noakes C., Woods A., Gainty C., Schoefert K., Tantardini L. (2017) Excising Infection in the Surgical Environment, *Royal College of Surgeons Bulletin*, November 2017 pp.17- 20,

26. Short C.Alan (2017) *The Recovery of Natural Environments in Architecture*, Taylor and Francis,Abingdon

25. C.Alan Short (2017) Scroope Terrace of Cambridge University, a latter Day Castle of Otranto, *World Architecture 2017, 08 326*, Where We Started: Spaces for Architectural Education, pp.38-43, Tsinghua University Press

24. Daniel Bannister, Michael Herzog, Hans Graf, J. Scott Hosking, and C. Alan Short (2017) Performance of CMIP5 Models for Current and Future Temperature in the Sichuan Basin, China, Using CMIP5 Climate Models, *Journal of Climate*, publ. online 3rd May 2017, *https://doi.org/10.1175/JCLI-D-16-0536.*

23. Short C.A., Lomas K.J., Renganathan G. (2015) A medium-rise1970’s maternity hospital in the east of England: resilience and adaptation to climate change, *Building Services, Engineering, Research, Technology (BSERT)*, special issue ‘Indoor Temperature and Air Quality’ 0(0) 1-28, SAGE, DOI: 10.1177/0143624414567544, (<http://bse.sagepub.com/cgi/reprint/0143624414567544v1.pdf?ijkey=DxAW2Gpz4xsz5XW&keytype=finite>). Winner of the Carter Bronze Medal 2016, Chartered Institute of Building Services Engineers.

22. C. Alan Short, Catherine J. Noakes, Carl A. Gilkeson (2014): Functional recovery of a resilient hospital type, *Building Research & Information*, DOI: 10.1080/09613218.2014.92660521.

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) 315–32820.

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*, 3: 3, 197 — 216, First published on: 17 February 2010 (iFirst) DOI: 10.1080/19401490903318218

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,* 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', *Building Research & Information*, 37:4, 397-412

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

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](http://www.informaworld.com/smpp/title~content=t713694730~db=all~tab=issueslist~branches=36#v36), Issue 2[,](http://www.informaworld.com/smpp/title~content=g790527565~db=all) 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 and Newspaper articles***

*-* Alan Short,INDEPENDENT News › Long Reads, Saturday 3 February 2018, Glass buildings are not energy efficient or fit for purpose, explains architect? *http://www.independent.co.uk/news/long\_reads/glass-buildings-fit-for-purpose-office-high-rise-energy-efficient-environment-skyscrapers-a8172211.html.*

*-* Short C. Alan (2017) The Recovery of Natural Environments in Architecture, Taylor and Francis,Abingdon.

- 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, Abingdon.

***GOVERNMENT REPORTS***

*-* NHS Energy Efficiency Fund: Final Report to Ministers, summary online Feb 2015.

- NHS Health Technical Memorandum (HTM) 07-02, published online March 2015. **-** 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 (SSEES Building).

- ‘Fifty Buildings 50 Years’, RIBA 2010, (The Queens Building Leicester).

- ‘Les Resources de L’Architecture pour la Ville Durable’, Ecole Nationale Superieure d’Architecture Paris-Belleville

Paris, January 2012. (including the SSEES building, Lanchester Library, Judson University, Future House Beijing).

***(HIGHLY) SELECTED RECENT CONFERENCES/SEMINARS***

- Cultural Histories of Air and Illness, Warwick University, June 2018: J. S. Billings and the Conundrum of the

Naturally Ventilated Hospital.

*-* Sustainable Design in the Built Environment (SuDBE) Conference, Chongqing, Nov 2017, Keynote address, chair

for two sessions on LoHCool and MAGIC.

-‘Coffee with Scientists’ seminar 06/02/15, History and Philosophy of Science Cambridge, ‘The recovery of natural

hospital environments: Billings and Folsom’.

- European Bank for Reconstruction and Development 21/01/15 Distinguished debate on ‘Cities in a changing

climate’ in association with Centre for Science and Policy and the Cambridge Forum for Sustainability.

*-* US Society of Architectural Historians Annual Conference 2014, as George Collins Fellow, Austin, Texas.

- 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 Ceremony’, Washington, 2011, keynote speaker.

- Institute of Hospital Engineers Annual Conference, ‘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.

- 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 Royal College

of Art and the Robens Institute University 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 2009. - Environmental Engineering and Architecture, ‘Experiences in building natural ventilation’. The School of

Architecture of Paris La Villette, 9th April 2009.- Hospital Building Conference, **‘**Sustainability and low-energy hospital design in Great Britain’,

FUHU Conference Centre Copenhagen, 22nd April 2009.

- The World Renewable Energy Congress 2008: Low Energy Architecture, ‘Passive and Hybrid Environmental Strategies for Public Buildings’, Glasgow, Scotland.

- East of England Strategic Health Authority BP Institute and St John’s College Cambridge, October 2nd 2008.

- 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 VIiable Sustainable Design Strategies for Healthcare Buildings,’ a report for Business Briefing; Hospital Engineering and Facilities Management, Issue 2.

### *PRACTICE*

**Chairman, Short & Associates Ltd, (Short, Ford & Associates 1992 to 1997) 1997-** (practice in abeyance, its 12 year professional indemnity run off period expires from Jan. 2007)

**- Future House Beijing** 2012-14**,** Headquarters building for Exposition of Sustainable Construction on the 5th Ring Road, hybrid environmental strategy to deliver half the energy consumption of a currently compliant building in Beijing.

* **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. ***The first passive downdraught-cooled public building*** ***at scale*** 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 completed 2015:** listed building consent and full detailed planning permission for 2071m2 of rebuilding and new building in the St. James Conservation Area, construction documents and management by **Sir Richard MacCormack's** practice **MJP**. New terracotta tile vaulted cellars using the Guastavino brothers' technique designed by the Cambridge Architecture Department's Centre for Natural materials under P.I. Dr. Michael Ramage.

-  **21 Arlington Street,** **St. James, London:** completed 2014,listed building consent and full detailed planning

permission for restoration of, and additions to, brick masonry vaults undercroft to Grade 2\* listed neo-Palladian

mansion by **Giacomo Leoni** (1686 – 8 June 1746), also known as **James Leoni**.

* **Conservation Management Plan for the Belgrade Theatre Coventry** England’s first postwar theatre, received £1 million from the Heritage Lottery Fund for restoration of original building 2007-8.
* **New Academic Centre for Judson College Chicago, Illinois, USA;** international competition win spring 2001; completed 2007; 75,000 ft2; $25 million all from fundraising campaign; new learning and teaching centre combining the college library, school of architecture and, art and design faculty, employing a hybrid e nvironmental control 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****.*
* **The Chadwick Centre at Berkhamstead Collegiate Schools**:***Best Landscape Design, National Brick Development Association Awards 2009.***
* **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, **Department of Health exemplar project**, **NHS** **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** and  ***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 Downdraught 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 RIBA 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. Assisted with **2014 Arts Council Lottery** award of £3.5 Million to enhance the theatre.
* **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, 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 RIBA/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 Prof. Paul Linden at 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).

**PUBLICATION OF BUILT WORK SINCE 1986**

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

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**New School of Engineering and Manufacture, 'The Queens Building'**, **1989-1993**

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**The CONTACT Theatre 1993-1999**,

Designed by Alan Short and Anne Goldrick with Max Fordham environmental engineer, and Stephen Morley structural engineer. Computational Fluid Dynamics air flow modelling and physical wind tunnel testing by the University of Wales .Competition win December 1993, 32 long-list entrants, 6 finalists including Ian Ritchie, Ted Cullinan, Ian Simpson.

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## Radio coverage of Contact

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**School of Slavonic and East European Studies 2002-2005**

- Charles Jencks in Post-Modernism Resurgent: Ten Buildings that made a Difference 2016. Jencks writes, ***'I would***

***vote for Alan Short's consistent development of the mixture and - focusing again on London - pick his***

***modest but brilliant essay in contextual counterpoint, The School of Slavonic & East European Studies,***

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**Television coverage of The School of Slavonic and East European Studies**

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**Braunstone Health & Social Care Centre 2002-2005**

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