

## CURRICULUM VITAE

### Name

Professor Eur Ing Derek J Clements-Croome  
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### Qualifications

BSc., MSc., PhD., CEng., CPhys., FICE., FCIBSE., FIOA., FRSA., FASHRAE., F.Inst.P.

### AWARDS and HONOURS

Judges' Special Award, Building Controls Industry Awards, 2009

Vice President of CIBSE (May 2007 - 2009)

Chairman, Rumford Club, (October 2008 - 2009)

President of National Conference of University Professors (2005- 2008);

Appointed Member of Taiwan Government Science and Technology Advisory Group (2005 - 2007)

Commissioner for Ministry of Construction, Beijing and Member of Editorial Board for Proceedings for Annual *Conference on Green and Energy Efficient Building and New Technologies and Products* held from March 2004 onwards

Awarded Silver Medal by Chartered Institution of Building Services Engineers, May 2005.

Appointed UK Ambassador for Clima 2000, 7<sup>th</sup> World Congress in Naples, September 2001.

Appointed Honorary President of *Intelligent Building Systems Congress*, at Kracow University, April 9-10, 2001, May 13-14, 2002, May 20-21, 2004, June 1-2 2006, June 2008, October 2009.

Awarded Lifetime Membership of the International Academy of Indoor Air Sciences in 2000.

Awarded Fellowship of the American Society of Heating, Refrigeration and Airconditioning Engineers in 1997.

Granted Freedom of the City of London 1996.

Ove Arup Partnership Award for contribution to the development of the Building Services Engineering Design and Management undergraduate course concerning creativity for the Built Environment (£4,500) 6 December 1993.

Northcroft Silver medallist of the Institute of Hospital Engineering (1990).

Bronze medallist of the Chartered Institution of Building Services Engineers (1970).

### **Present Appointments**

Editor/Founder of *Intelligent Buildings International Journal* (Earthscan 2006 -).

Appointed Honorary Visiting Professor, AGH University of Science and Technology, Faculty of Management, Poland, (2007)

Director of Intelligent Buildings Research Group (2005 - )

Emeritus Professor (2008-), Professor of Construction Engineering, Department of Construction Management & Engineering, University of Reading (1988- 2008) and Director of Research ( 2002- 2007)

Appointed Honorary Visiting Professor at Xian University of Architecture and Technology (2007-)

Appointed Honorary Professor at Polytechnic University Hong Kong (2006-2010)

Appointed Honorary Visiting Professor at Shenyang Ligong University, China in 2002.

Appointed Honorary Visiting Professor at Shenyang Jianzhu University, China in 2002.

Appointed Honorary Visiting Professor at Benxi University in 2002.

Appointed Honorary Visiting Professor at Tianjin University, China, in 2000.

Appointed Honorary Visiting Professor at Chongqing Jianzhu University, China in 1994.

### **Previous Employment**

1978-88 Senior Lecturer/Reader, School of Architecture and Building Engineering, Bath University.

1967-78 Lecturer/Senior Lecturer, Department of Ergonomics and Cybernetics then Department of Civil Engineering, Loughborough University.

1966-67 Research Fellow, Institute of Sound and Vibration, Southampton University.

1955-66 Brightside Heating and Engineering Co Limited, Birmingham, Trainee Engineer (1955-60); Research and Development Officer (1960-66).

### **MANAGEMENT**

Director of Intelligent Buildings Research Group (2005 - ) and Research for School of

Construction Management and Engineering (2002- 2007). Since 1988. I have raised over £3.0m from industry, Government and EC for research and education initiatives (over £176,000 per year). The management of the resources (staff and equipment) and financial control of this money given in covenants from industry, grants from Government and the EU has been my responsibility.

Director(1996-2008) and Founder of IGDS *MSc Course in Intelligent Buildings* funded by EPSRC in 1997 for 5 years.

Other management responsibilities include CIBSE Natural Ventilation Group; CIBSE Whole Life Performance Task Group; CIBSE Intelligent Buildings Group. Past Chairman of CIBSE Education and Learning Group; Management Board for European Intelligent Building Group; Electrobiocompatibility Association; Council of Professors of Building Engineering and Management (national body); founder of the Thames Valley Centre for the Built Environment in Construction now the South East Centre for the Built Environment(SECBE). Participated in academic and financial planning of University via membership of Senate; Council; the Faculty Board and as Director of Research and member of Faculty of Sciences and Life Science Research Board.

Chair of Research Committee for School of Construction Management & Engineering (2002-2007).

Chairman and Director of Building Environmental Engineering Design and Management Undergraduate course (1988-2000).

Chairman of Board of Studies for Postgraduate Courses in Construction Management and Engineering (1994-2000).

Principal Investigator for several EPSRC / DTI Industry funded projects.

## **TEACHING**

Planned and created new Undergraduate and Postgraduate courses in Building Environmental Engineering at Loughborough (1970) and Reading (1989); new MSc course on Intelligent Buildings (1997). Proposal for Engineering Doctorate submitted to Director of Teaching and Learning(D. Stirling) in March 2006 and approved by Senate in July 2006( with Professor Liu and Dr H Awbi).

Present work is concerned with improving the quality of innovative postgraduate courses (e.g. Intelligent Buildings and Construction Informatics); developing of research programmes especially with industry; pursuing discourse and exchange with research workers, teachers and industrialists across the disciplines of environmental engineering architecture, planning, building engineering and human studies in other countries as well as the UK; developing links with China.

## **RESEARCH GRANTS**

**HEFCE funded Carbon Brainprint Project led by Cranfield University with Cambridge and Reading Universities (£10,000)**

**Technology Strategy Board, 2007, *Spearhead: Space Management Model with FSI and others*, £1.5m (£200,000 to Reading)**

**EPSRC Environmental Design and Business Value Scoping Study** approx £8000 (2006)

**EPSRC Identifying a Good Briefing and Procurement Approach for Schools Project, H 30711** £47,661 (2005- 2006), £84,970 (2006-2009)

**DTI Technology Programme, Co-ordinated Management of Intelligent Pervasive Spaces** with Thales and School of Systems Engineering, £160,000 (2005-2007)

**Knowledge Transfer Partnership, *Development of Software to Identify Whole Life Cost of Building Services*** with Dytecna, £70,550, (2005-2007)

**EPSRC Ventilation in Schools GR/T23626/01, £263,147 and Department for Education and Skills**, £15,000 (2005-2008).

**EPSRC System Integration for Building Services C785000**, ICRC £105,538.50 (2004-2006).

**EPSRC Sustainable Urban Environment Grant GR/T 04878/01 *Innovative Design and Construction for People*** with Universities of Southampton and Greenwich £399,922 (£1.7m total) (2004-2008).

**Teaching Company Scheme (from 2003 Knowledge Transfer Partnership) with Caice Airmovement Ltd., TCS Programme 3984 on *Acoustics*** (attenuator & fan testing) awarded 2002 for start in March 2003 £133,988 (includes £41,447 from Caice Ltd.) (2003-2005) subsequently a restart programme £97,000 until 2007.

**EPSRC Grant GR/R64827/01 *Reliability in Building Services*** £134,296 plus £134,296 from industry absorbed into Innovative Management Research Centre (IMRC) sponsored by EPSRC 2002 onwards. A further £144,000 ear marked from IMRC for research projects in related areas (2003-2006).

**EPSRC Grant GR/N 33478/01 (2001-2004) *Integrated Logistic Support Analysis for Building Services*** £249,367 EPSRC plus direct contributions from industry £369,000 (minimum) (2000-2003).

***Effects of Environment on Productivity***, May 1997, £20,000 for research Fellowship, Industrial sponsors - Clearvision, Optimum Workplace Environments, Canary Wharf Management Jardinerié.

**EPSRC Contract 00487ENG96 Integrated Graduate Development Scheme *MSc Intelligent Buildings: Design, Construction and Management*** October 1996 to September 2001, £470,500.

***Centre for the Built Environment in Construction*** Continuing Vocational Education Funding from HEFCE £20,000; Thames Valley Enterprise Plc £18,500; National Contractors Group

£5,000; start date May 1996 (now South East Centre for the Built Environment-SECBE).

**EPSRC Contract 00700 EBG95 Intelligent Buildings**, £12,000. (1996 - ); MSc level short course ran September 23 - 27, 1996.

Teaching Company Scheme SERC/Dytecna/University of Reading Department of Construction Management & Engineering, Grant £57,086, GR/J59589 (1994-96) on **Integrated Logistic Support Systems for Construction**.

Teaching Company Scheme SERC/Dytecna/University of Reading Department of Engineering and Department of Construction Management & Engineering, Grant £56,187, GR/J58367 (1993-95) on **Electromagnetic Compatibility**.

National Contractors' Group, **Education & Training for Construction Industry** (1990).

University of Reading Grant £20,000 on **Microwave Heating** (1990-94).

EC **Technology** Report £3,000 (1992-93).

SERC/University of Reading Grant £110,000 for **Thermal Comfort and Air Quality** (1990-94).

DOE/University of Reading £71,000 for work on **Passive Building Intelligence** (1994-97).

British Council Grant - Treaty of Windsor - of £2,000 with the University of Porto, Portugal on **Thermal Comfort**. (1993-4).

Grant of £21,000 with BICC/University of Reading for work on **Personal Ventilation Systems** (1993-6).

EC Tempus Grant £10,000 with Technical University of Budapest (1991-92).

**Natural Ventilation and Energy Conservation** financed as a PhD by the Malaysian Government, (1987-91) with Zainal Yusof.

**Performance and design of Industrial Radiant Heating Systems** Science and Engineering Research Council Collaborative Award with Grayhill Blackheat Limited £111,912 from SERC and £40,635 from Grayhill Blackheat, June 1986 until 1990. Grant numbers GRD 71320 and GR/F/41112 (£19,171).

**Personal Environmental Control Systems** with industrial collaboration (1990-94) (financed by University of Reading, £100,000).

**Ventilation Characteristics of Buildings**, SERC Grant No. GR/F/93340 (1990-93) £49,242.

**Methods of designing for air movement** with Zhao-Xi Lin, Visiting Scholar, financed by the Peoples Republic of China (1984-86) and continued by Dr G Gan, 1990 onwards (financed by University of Reading).

GEM Group of eight Contractors funding £350,000 for **Building Services Engineering and Management** 1989-93, and £160,000 for 1992-94; HEFCE funding of £180,000 for 1992-95; IEI, Atlantic Boilers funded £24,000 (1989-92); Arups £3,000 (1993-97); Bank of Mauritius £16,500 (1993-96).

SERC Grant (£95,000) GR/A/86474 on **Environmental Characteristics of Lightweight Structures** (1982-85).

## **RESEARCH INTERESTS**

\* Intelligent Buildings \* Health, Productivity and Well-Being \* Occupancy Behaviour \* Whole Life Performance and Value \* Sustainable architecture \* Education for Building Services Engineers and the Construction Industry \* The Origins of Maintenance \* Briefing Process  
\* Electromagnetic Fields and Health \* Are There Lessons from Chaos Theory for the Construction Industry \* Low energy buildings.

## **DESIGN CONSULTANCY**

### **Contributed to design of:**

Independent External Assessor on Fresh Air Supply to Beaufort House (1992-1993).

Honorary Adviser for the Ruskin Library, Lancaster University (1991) and also to the Yehudi Menuhin School, Stoke D'Aberon, Surrey (1991-99).

Membership of Advisory Team on several projects including: Restoration of Victoria and Albert Museum; Environmental Engineering Brief for new National Gallery; CIBSE Headquarters New Council Chamber at Balham (Acoustics) (1984).

With Buro Happold:--Basildon New Town development; Internationale Bausausstellung Berlin with Frei Otto (Ecohouses) 1986; DoE Solar Energy Project; Canadian Township 58 degrees North(1981); Diplomatic Club Riyadh

Museum of Amman with Michael Brawne; Worcester College, Oxford with Richard MacCormac (1980-81). (The International Journal of Museum Management and Curatorship, Vol 2 No 3, September 1983, p257-265).

Masterplanning tool with Hilson Moran and Dr Al-Waer at Dundee University(2010-2012) based on EPSRC SUE IDCOP research project .

Work with Volterra Consulting

## **MEMBERSHIP OF COMMITTEES**

**Present:**

Member of *REHVA Education Committee* (2008- )

Member of *Built Environment College for Engineering and Physical Sciences Research Council* (1995 onwards and re-elected 2005, 2010) also served on *Materials Panel*.

Member of *Economics and Social Research Council Panel* on New Dynamics of Ageing (2006-)

Member of *Society of Façade Engineering* (2007- )

Chairman and Founder of *CIBSE Intelligent Buildings Group* (2006 -)

Appointed Member of Executive Board for *British Council of Offices* (2005 - 2011)

Member of Council of *National Conference of University Professors* (2003-2011 ); elected Vice President for NCUP from 2005; President (2006-2008)

Member of *Parliamentary Group for Engineering Development* (1995 - ).

Member of *British Standards Institution Committees RHE/2 and 23* also *Indoor Climate* (1994- 2002)

Chairman of *CIBSE Whole Life Performance* Task Group, (2003- )

Chairman of *Natural Ventilation Group for the Chartered Institution of Building Services Engineers* (1993- ) and *Project Task Group for Natural Ventilation Design Applications Manual. AM 10* (See Publications).

**Past**

Member of the *International Scientific Committee* for the 8<sup>th</sup> International HVAC Symposium, Istanbul, May 8<sup>th</sup>-12<sup>th</sup> 2008.

Member of the *International Scientific Committee (ISC)* of the first International Conference on Building Energy and Environment (COBEE) Dalian, China. (2008)

Chairman of Federation of European Heating and Airconditioning Association (REHVA) Task Force 10, *Improving the Reliability and Value of Building Services* (2004- )

**Member of Council for Building Services Research and Information Association- BSRIA-** (1995-1999 and 2004-2007)

**Founder and former Chairman of SECBE 1990-1996** formerly South East then Thames Valley Centre for the Built Environment

**Member of British Standards Institution Committees RHE/2 and 23**

Chairman of *Electromagneticbiocompatibility Association (EMBA)*, (2002- 2004).

Member of *Berkshire Construction Best Practice Club Committee* (2001-2003)

Chairman of *Further and Higher Education Task Group for Sir Paul Judge* (2002- 2003).

Chairman of *Education & Learning Group for CIBSE* (1998-2003)

Member of Advisory Board for *Building Research and Information*, International Journal of Research, Development and Demonstration (1994 - 2002).

Advisor to *Workplace Comfort Forum* (1995 -1998) and Chairman of *International Conference* on Creating the Productive Workplace, London, October 29-30, 1997.

Member of *Construction Industry Council Panel* on Energy Efficient Design of Buildings (1995 - 97)

Chairman Council of *Professors of Building Engineering & Management* (1994 - 96)

Chairman and Founder of the *Centre for the Built Environment in Construction Management Group* (1992-96).

Member of the *Chartered Institute of Building Tripartite Committee* (1992- 96).

Chairman Council of *Professors of Building Engineering and Management* (1992 - 94)

Member of *Technical Committee for Clima 2000 World Congress*, London (1993).

Member of *Board of Assessors for the Building Services Research & Information Association* (1990-93).

Member of *CIBSE Membership Committee*, (1988-1992).

Member of *Built Environment Committee for the Council of National Academic Awards* (1985-91).

**UK Representative for Second World Congress on Heating, Ventilation, Refrigeration and Airconditioning at Sarajevo, Yugoslavia, 28 August - 1 September 1989.**

Member of *CIBSE CPD Sub-Committee*, (1988-1992).

Member of *Organising Committee for CIB World Congress 1986* on Computer Applications in Building Environmental Engineering held in Bath.

Chairman of *CIBSE SW Region* 1981; *Energy Convenor and Chairman of Education & Training Panel.*

Member of *CIBSE Technology Board*, (1980-84)

Member of *CIBSE Council*, (pre 1985)

BSI Housing Energy Code Committee Member.

## **INTERNATIONAL WORK**

Member of *Strategy Review Board on Science and Technology for* Taiwan Government (2005- 2006)

Member of *Memoranda of Understanding* concerning courses and research in Intelligent Buildings arranged with Temasek in Singapore and Shenyang Ligong University (2004) and Xian and Jilin Universities (2007) in China

Member of Technical Planning Committee for *Ministry of Construction* in Beijing (2003-2006).

Commissioner /Editorial Board for annual Conference arranged by Ministry of Construction in Beijing (2003- )

Visiting Professorships at Tianjin (2000); Chongqing Jianzhu (1995); Shenyang Jianzhu (2002); Shenyang Ligong; Benxi Universities (2002) and Xian University of Architecture and Technology (2007) in China.; Polytechnic University Hong Kong (2006-2010)

CIB Coordinator for WO98 Intelligent and Responsive Buildings (Int. Council for Research and Innovation in Building & Construction), (2001- ).

### Participation in CIB Working Commission(s) and/or Task Group(s):

W098	Coordinator	Intelligent and Responsive Buildings
TG34	Member	Regeneration of the Built Environment
TG38	Member	Urban Sustainability
TG49	Member	Architectural Engineering
TG55	Member	Smart and Sustainable Built Environments
WO51	Member	Acoustics
W067	Member	Energy Conservation in the Built Environment
W077	Member	Indoor Climate

Member of ISIAQ Task Force on *Effects of Indoor Environment on Productivity*(2004-2006).

Member of *Healthy and Productive Workplaces* Domain of Sustainable Construction of Built Environments (ScooBE) EU Thematic Network CIB (2001).

Appointed English Editor for CEN European Standard on Indoor Climate at meeting of TC156 Working Group 6 held at the Technical University, Lyngby, Copenhagen on 18-19 March 1991; at the Austrian Standards Institute, Vienna, on 9-10 April 1992; at the Technical University of Trondheim, March 1993; DoE London, November 1993; Danish Standards Institution Copenhagen, March 1997.

Appointed to the Technical Committee 2.1: Physiology and Human Environment for the American Society of Heating, Refrigerating and Airconditioning Engineers (1993- ) Atlanta Georgia, USA.

Negotiated students (Part III Building Services Engineering Design & Management) six week work period in Italy 5-9 April 1993 with:

Milanotermica S.p.A  
Ditta Filippo Rolla & C. S.a.s.  
Intertecno S.p.A.  
Sgarbi Impianti S.r.l., ISIR S.p.A.

Independent referee with co-referee is Kurt Masur, conductor of the Leipzig Gewandhaus Orchestra for Fellowship of Engineering, MacRobert Award 1992: topic was New Symphony Hall in Birmingham appointed by Arups.

Presented a lecture on '**Innovation in Building Technology**' in the Department of Architecture at the University of Florence on 1 March 1991, also held informal seminar with six doctoral students.

Negotiated students (Part III Building Services Engineering Design & Management) six week work period in France and Germany. Arrangements made in Paris 30 May - 4 June 1991 with:

CEGELEC  
Spie Batignolles, Division Electricite et Nucleaire  
CGC Enterprise  
Sulzer  
Herve Thermique  
International Interface High Technology;

in Betzdorf and Kassel 9-12 June 1991 with:

Heinrich Nickel GmbH  
Rudolf Otto Meyer  
Kassel University, Entec

via Dr R Risso of the Associazione degli Industriali della Provincia di Genova. Siemens and Schindlers Lifts also take BSEDM students in Germany, France and Italy as from 1995.

Invited guest of All- Union Association of Engineers for Heating, Ventilation, Airconditioning, Heat Supply and Building Thermal Physics (ABOK) in St Petersburg, 24-29 August 1991.

### **International Scientific Advisor for Conferences:**

Conference Co=Chair for SAUD 2011 March Saudi Arabia  
International Sustainable Buildings Symposium, Gazi University, Ankara, April,2010  
8<sup>th</sup> International HVAC Symposium, Clima, Istanbul, 2010

7<sup>th</sup> January 2010, Chair at Passive and Hybrid Draught Cooling, UCL  
 7th International Conference on Tall Buildings, 28-30 Oct 2009, Beijing  
 Healthy Buildings, Syracuse, September, 13-17,2009  
 14<sup>th</sup> Building Services and Building Industry Days, University of Debrecen and HAS  
 Regional Committee of Debrecen, Hungary, 30-31 Oct 2008; 2009,  
*COBEE 2008*, July 14-16, Dalian , China  
*WORKAIR2007* - May 29-31, 2007, Helsinki, Finland  
*Clima 2007* June, Helsinki;  
*Healthy Buildings*, Lisbon, 2006 June;  
*International Conference on Asia-European Sustainable Urban Development*, April 4-  
 6 2006, Chongqing University, China  
*Bologna-Delft Seminar* (University of Delft) November 28 2005;  
*Indoor Air Conference*, Beijing, September 4-9 2005;  
*CISBAT Conference*, Lausanne, September 28 2005;  
*REHVA Workshop*, Lausanne, Clima October 10 2005;  
*ISIAQ Conference* Beijing 2005 and 2006;  
 Invited member of Technical Committee for *International Intelligent and Green  
 Building Technologies and Products Conference and Expo* March 2005 by Ministry of  
 Construction in Beijing and re-elected for March 2006 conference.  
 Chairman of *CIB World Congress W098 meeting* in Toronto May 4-7, 2004 and  
 International Organising Committee;  
 Honorary President of *Intelligent Buildings Conference* at Krakow University of  
 Technology May 20-21, 2004;  
 International Conference on *Smart and Sustainable Built Environment*, Brisbane, 19-21  
 November, 2003;  
 International Conference on *Healthy Buildings*, Singapore December 2003;  
*Frigair Conference* in Johannesburg 2002;  
 UK Ambassador for *Clima 2000* Conference in Naples, September 2001;  
 Honorary President of *Intelligent Building Systems Conference*, at Krakow University of  
 Technology, April 9-10, 2001 and May 13<sup>th</sup> 2002;  
*Airconditioning for High Rise Buildings*, Shanghai, October 23-27, 2000;  
*CSTC Technology Watch & Innovation in Construction*, Brussels, April 5-6, 2000;  
*Realising the Benefit* at BRE October, 1998; CIB Working Commission W098  
 International Conference, *Intelligent & Responsive Buildings*, March 28-30, 1999,  
 Bruges;  
 EIBG International Conference *Intelligent Buildings*;  
*Energy and Mass Flow in the Life Cycle of Building's* CIB W67, Vienna August 1996;  
 International *Ondol* Conference, July 1996, Seoul, Korea;  
*Indoor Air '93*, Helsinki; *Healthy Buildings '94*, Budapest; *HVAC '95*, Beijing;

## **EXTERNAL ACADEMIC APPOINTMENTS**

### **External Examiner at:**

Centre for Alternative Technology, North East London University (2010-2013)  
 University of Loughborough (Building Services Engineering) 1995 - 99  
 University of Coventry (Building Services Engineering) 1994 - 00.  
 University of Hertfordshire (Building Services Engineering) 1991 - 93.  
 Napier University (Energy Engineering) 1990 - 93.

Dublin College of Technology (Building Services Engineering) 1987 - 90.  
Brunel University (MSc in Building Services Engineering) 1987 - 91.  
Liverpool University (Building Services Engineering) 1988 - 92.  
University College of London (MSc in Environmental Studies 1980 - 84).  
Building Design Engineering 1989-93; Architecture 1989 - 93.  
University of Strathclyde, Building Services Engineering 1984 - 89;  
UMIST (Building Services Engineering 1982 - 86).

**PhD Examiner at:**

Loughborough University (Fan Yang), 2008  
Imperial College of Science, Technology and Medicine, University of London, (Jamieson), 2008  
University of Oulu (Kallinen), 2008  
Anna University, Chennai, Omdoa (Vijayalaxmi), 2007  
University of Cambridge (Samad), (2007)  
Helsinki University of Technology (Kerjalainen) 2007  
Hong Kong Polytechnic University (K J Wang) 2007  
Helsinki University of Technology (Nenonen) 2005  
Newcastle University (Jamaludin) 2005  
University of Cambridge (Samad, Ph.D Progress) 2004  
Helsinki University of Technology (Lehto, Himanen) 2002/2003  
University of Loughborough (Marjanovic) 2002  
University of Loughborough (Pinnock) 2000  
University of Bath, 1997  
Liverpool University (R N Williams) 1996  
Surrey University (G. Hawkes) 1995  
Strathclyde University 1995  
Cambridge University (Boon Lay Ong) 1996  
Trinity College Dublin (M. Doyle) 1993 - 94.  
Loughborough University (T.C.B.F. Gennari) 1988  
Liverpool University (R. Doig) 1977

**MPhil/MA/MSc Examiner**

MPhil, University of Central Lancashire (D.T. King) 2006  
M.A, Manchester Metropolitan University (Decker-Jung) 2003.  
University of Strathclyde (Bonthron) 1983  
UMIST (Kwong), 1983

**External assessor for:**

Chair, (APC Chan), Department of Civil Engineering, Dundee University(2008).  
Chair (Professor K Lomas), Department of Civil Engineering, University of Loughborough( 2008)  
Chair, (Dr Y Li) Department of Mechanical Engineering, University of Hong Kong (2006)  
Associate Professorship Promotion, (Dr. Qudah) Jordan University of Science and Technology, Department Civil Engineering, (2006)  
Readership Promotion (M. Cook), de Montfort University (2005)  
Readership Promotion (D Etheridge) Nottingham University (2005)

Readership Promotion (S. Lau), the University of Hong Kong (2005)  
 Chair in Information Technology, Engineering and Environment at University of South  
 Australia (W.Y. Saman)(2004).  
 Chair in Faculty of Engineering, Science and Mathematics at Southampton University,  
 (Dr A B Bahaj) (2004).  
 Tenure for Associate Professor (C. Sekhar) in School of Design and Environment,  
 National University of Singapore (2003).  
 Readership in the Built Environment (Li Shao) University of Nottingham (2003)  
 Docentship in Intelligent Facilities Management at Helsinki University of  
 Technology (M.Himanen) (2003).  
 Chair in Computer Science at Essex University (V. Callaghan) (2003)  
 Chair in Construction Management at Salford University (S Todd) (2003)  
 Chair in Building Services Engineering at Helsinki University of Technology (2002).  
 Personal Chair (Dr Robert J Lowe), at Leeds Metropolitan University( Feb 2001)  
 Personal Chair (Rev.M. Humphries), at Oxford Brookes University( December 2000)  
 Chair in Building Services Engineering (personal Chair, Dr D. Loveday),  
 University of Loughborough(December 2000)  
 Personal Chair (S Roaf) at Oxford Brookes University (1997)  
 Readership at University of Loughborough (1995)  
 Readership at University of West Indies (Trinidad) (1994)  
 Chair at University of Strathclyde (1993)(M. Corcoran)  
 Chair in Building Services Engineering, at UMIST (1989) (K. Letherman)  
 University College Cork (1993) for Boolean Fellowship.

### **Course Reviewer**

BSE BSc at South Bank University (June 1999).  
 MSc Construction Project Management, MSc Facilities Management and MSc  
 Property Business Management at University of Central England, Birmingham,  
 (10 July 1997).

### **READING UNIVERSITY APPOINTMENTS**

Director of Research for School of Construction Management and Engineering (2002 - 2007)

Chairman of Research Committee for School of Construction Management and Engineering  
(2002- 2007).

Chairman of Board of Studies for Postgraduate Courses in the School of Construction  
Management and Engineering (1994 – 2001).

Chairman of Research Board (1989-92).

Member of Senate (1988- ).

Member of Council representing the Faculty of Urban and Regional Studies (1993 - 95).

Member of Continuing Education Committee (1988 - 1993).

Member of the Faculty Board for Urban and Regional Studies (1988 - 1993).

## **REFEREEING OF TECHNICAL PAPERS AND RESEARCH PROJECTS**

### **Project Evaluator for:**

EPSRC (New Dynamics of Ageing Panel)(2008)

EPSRC (Materials Components Panel) (2007)

The Leverhulme Trust

The Croucher Foundation (Hong Kong)

Department of Trade and Industry (Innovation Programme).

Journal of Environmental Assessment Policy and Management (JEAPM).

European Union (EU) FP6/FP7.

Quebec Funds for Research on Nature and Technologies (Canada)

Journal of Environmental Assessment Policy and Management (JEAPM)

National University of Singapore. Faculty Research Committee of the School of Design and Environment.

### **Peer Reviewer**

Kuwait Foundation for the Advancement of Sciences Research Directorate (2009 -)

The Open Construction and Building Technology Journal (*serve on Editorial Board*), (2007-)

Pervasive Informatics (*serve on Editorial Board*), 2007

Journal of Construction, 2007, (*serve on Advisory Board*)

Intelligent Building Services Awards. May 1<sup>st</sup> 2007,

Automation in Construction

Renewable Energy

International Journal of Architectural Engineering and Design Management, (*serve on Editorial Board*)

Solar Energy, 2006

Journal of Environmental Modelling and Assessment, 2006

Journal of the International Solar Energy Society, 2006

Journal of Environmental Management, 2006

Brian Mercer Awards for Innovation (Royal Society) 2005

Indoor Air Journal 2005

EPSRC College of Peer Reviewers

Centre for Indoor Air Research, Maryland (USA)

Building Services Research and Technology Journal (CIBSE)

Building Research and Information Journal (*served on Editorial Board*)

Construction Management & Economics Journal

The Institution of Civil Engineers

International Journal of Construction Innovation

International Journal of Low Carbon Technologies (*served on Editorial Board*)

Northern Ireland Higher Education Council (NIHEC)

City University of Hong Kong

Energy and Buildings Journal (*serve on Editorial Board*)

Journal of Engineering Design and Technology (*served on Editorial Advisory Board*)

Human Ecology Review

Nordic Journal of Surveying and Real Estate Research (*served on Editorial Board*)

Building Services Journal

Building Services and Environmental Engineer  
Ergonomics

## **GLOSSARY OF SOME ABBREVIATIONS**

MSFE	Member of Society of Façade Engineering
CEng.	Chartered Engineer
Eur Ing	European Engineer
CPhys	Chartered Physicist
FICE	Fellow of the Institution of Civil Engineers
FCIBSE	Fellow of the Chartered Institution of Building Services Engineers
FIOA	Fellow of the Institute of Acoustics
FRSA	Fellow of the Royal Society of Arts
FASHRAE	Fellow of the American Society of Heating, Refrigerating and Airconditioning Engineers
FInstP	Fellow of the Institution of Physics
SERC	Science and Engineering Research Council
EPSRC	Engineering and Physical Sciences Research Council, UK
CIAR	Centre for Indoor Air Research, Maryland, USA
CPD	Continuing Professional Development
IGDS	Integrated Graduate Development Scheme
CIBSE	Chartered Institution of Building Services Engineering
DOE	Department of Environment
SERC	Science and Engineering Research Council
ISAIQ	International Society of Indoor Air Quality
TSB	Technology Strategy Board
REHVA	Federation of European Heating and Air-conditioning Association

Emeritus Professor D.J. Clements-Croome  
University of Reading,  
June 2010