

CURRICULUM VITAE

Name

Professor Eur Ing Derek J Clements-Croome

Telephone: +44(0)7711705456

E-mail: d.j.clements-croome@reading.ac.uk

Web: www.derekcroome.com

Qualifications

BSc., MSc., PhD., DSc Honoris Causa (Debrecen University) CEng., CPhys., FICE., FCIBSE., FRSA., FASHRAE., F.Inst.P., Eur.Ing

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AWARDS and HONOURS

DSc Honoris Causa Debrecen University 2013

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, 7th 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, 2012

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. Liveryman Worshipful Company of Musicians 2005

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)

Bath University Medal October 17th 2012 for my education work on integrated building design.

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

Present Appointments

Building Environment Expert (BEE network) for CABE arm of Design Council (2015)

Air Quality Commissioner for Hammersmith and Fulham (2015)

Panel member for Regeneration Task Group for Haringey (2016)

World Green Building Council Team for the WGBC Report on Health, Wellbeing and Productivity for Offices 2014

UK-Green Building Council 2015—2016 Member of Health and Wellbeing in Homes Task Group

Chairman CIBSE Intelligent Buildings Group (2006--)

British Council for Offices BCO Executive Board (2003-2009), Technical Affairs Committee (2010-), Research Committee (2011-), Environmental Sustainability Group (2012-)

Editor in Chief/Founder of *Intelligent Buildings International Journal* (Earthscan 2006 –then Taylor and Francis 2012 onwards).

Appointed Honorary Visiting Professor, AGH University of Science and Technology, Faculty of Management, Poland acting as Honorary International President for International Conferences on Intelligent Buildings in 2007, 2009, 2012 and 2015 led by Professor J Mikulik

Director of Intelligent Buildings Research Group (2005-2012)

Emeritus Professor (2008-), Professor of Architectural Engineering, School for the Built Environment, University of Reading (1988- 2008) and Director of Research (2002- 2007)

Honorary Visiting Professor at Chinese Universities:

Xian University of Architecture and Technology (2007, 2015)

Polytechnic University Hong Kong (2006-2018)

Shenyang Ligong University, 2002.

Shenyang Jianzhu University, 2002.
Benxi University in 2002
Tianjin University, 2000
Harbin University 2006
Chongqing University, 1994, 2015
Ningbo University 2015

UK

London South Bank University (2012-)

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 -2012) 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 (1996). 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) and awarded £6.5m..

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

BCO-Scoping study on Wearable Technologies and their Impact on Office Design with Arup 2015-2016 £25,000

INNOVATE UK- Building Whole Life Performance Project with Low Carbon Maintenance Buildings LCMB Company and Oxford Brookes University and several companies including BCO which I am the representative for also as project advisor on Steering Committee, 2015-2017, £550,000

EU PROJECT DENZERO led by Debrecen University 2013-2014

EPSRC Engineering Doctorate with Royal Bank of Scotland on Environmental Design for Maximum Trader Performance with G Middlehurst and Runming Yao 2012--2017

EPSRC Engineering Doctorate with Buro Happold on Environmental Sensory Design with T Keeling and R A Luck 2011--2015

HEFCE funded Carbon Brainprint Project led by Cranfield University with Cambridge and Reading Universities (£10,000) 2010-12

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)j

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; IEL, 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 and Cities * Health, Well-Being and Productivity *Environmental Sensory Design *Occupancy Behaviour * Whole Life Performance and Value *Sustainable Architecture *Biomimetic Architecture and Biophilia* Education for emergent sustainability specialists for the Construction Industry * * Electromagnetic Fields and Health *Are There Lessons from Chaos Theory for the construction industry

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

Consultant on Master planning tool SuBET with Hilson Moran and Dr Al-Waer at Dundee University(2009 onwards) based on EPSRC SUE IDCOP research project 2006-09 at Reading University.

Work with Volterra Consulting as contributor to BCO Report - ***THE CHALLENGES FOR THE OFFICE SECTOR OVER THE NEXT DECADE AND BEYOND*** (May 2011)

Work with Burohappold on *Environmental Sensory Design* (2011-2015)

Work with Land Securities on health and wellbeing brief for ZigZag Building (2013)

Work with Arup on *Putting People First* Briefing paper for BCO (2015)

Work with Arup on *Wearables Technologies* for (BCO 2015-16)

Work with LCMB and BCO on Innovate UK project *Building Whole Life Performance* (2015-2017)

MEMBERSHIP OF COMMITTEES

Present:

Member of CIBSE Adaptive Cities Group (2014-)

Member of Executive Board for *British Council of Offices* (2003-09) and Technical Affairs Committee (2010--) and Research Committee (2011--) and Environmental Sustainability Group (2012-)

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

Chairman of *CIBSE Whole Life Performance* Task Group, (2003-2012)

Chairman of *Natural Ventilation Group for the Chartered Institution of Building Services Engineers* (1993-2012) and *Project Task Group for Natural Ventilation Design Applications Manual AM 10* (See Publications).

Member *CIBSE Schools Group*(2008--)

Member of *UK-China Eco-cities & Green Building Group* (2010-2013)

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

Member of Council of *National Conference of University Professors* (2003-2012); elected Vice President for NCUP from 2005; President (2006-2008)

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

Member of *Parliamentary Group for Engineering Development* (1995 -) now. *Parliamentary and Scientific Committee*

Member of *REHVA Education Committee* (2008-)

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

Member *UK Green Building Council* (2009—)

Member of *All Party Parliamentary Climate Change Group* (2008—14)

Member attendee at *All Party Parliamentary Group—Cities* also *Economics of Wellbeing*

Member of UKIEG Committee (2010-)

Past

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

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

BSI Housing Energy Code Committee Member.

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

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

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

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

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

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

Chairman of Federation of European Heating and Airconditioning Association (REHVA) Task Force 10, *Improving the Reliability and Value of Building Services* (2004-2006)

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

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

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

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

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

Member of British Standards Institution Committees RHE/2 and 23

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

Member of *CIBSE Council*, (pre 1985; 2007-)

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

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

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

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

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

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

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

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

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

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

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

INTERNATIONAL WORK

Part of UKTI visit to South Korea February 2014—lectures at Korean Institute of Construction Technology and Seoul National University

Invited Dreosti Memorial Lecture tour of South Africa on *Sustainable Buildings—An Alternative to Heating Ventilation and Airconditioning* in June 2013 sponsored by SARIAC

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

Invited Lecture tour of Australia and New Zealand on *Sustainable Buildings Design and Operation* in 2008 sponsored by CIBSE Australia/New Zealand Region

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 International Conference arranged by Ministry of Construction in Beijing (2003-) founded by Vice Minister Baoxing Qiu with Professor Clements-Croome in 2002 see Publications

CIB Coordinator for Commission W098 Intelligent and Responsive Buildings (International Council for Research and Innovation in Building & Construction), (2001-).

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

W098	Co-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:

Member of many international committees including:

2nd International Sustainable Building Symposium, ISBS Ankara, Turkey, [May 2015](#)

International Society of Indoor Air Quality and Climate (ISIAQ) .Healthy Buildings Conference 2015-Europe held in Eindhoven, The Netherlands from May 18-20,2015

Indoor Air 2014, the 13th Conference on Indoor Air Quality and Climate, taking place from 7 - 12 July 2014 in Hong Kong.

CIB World Congress in Brisbane May 2013 and Tampere 2016

Healthy Buildings in Brisbane 2012

IPC International Conference on Sustainability through Energy and Buildings 2012 Sweden

International Participative Construction Congress (IPCC) Firat University, Elazig, Turkey,
September 28-30, 2011

CISBAT Ecole Polytechnique Federale de Lausanne 2011(since 2008)

International Sustainable Buildings Symposium, Gazi University, Ankara, April,2010

8th International HVAC Symposium, Clima, Istanbul, 2010

7th January 2010, Chair at Passive and Hybrid Draught Cooling, UCL 2010

7th International Conference on Tall Buildings, 28-30 Oct 2009, Beijing

Healthy Buildings, Syracuse, September, 13-17,2009

14th 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. Editor for Proceedings for subsequent yearly conferences

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-----2013;

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 13th 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 WO98
 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

Visiting Lecturer at Warwick University, Wellbeing Institute for Sustainable Environments (WISE) Group of the late Professor Elizabeth Burton (2012-2014)

Visiting Professor adviser on sounding Panel at Salford University for EPSRC Research Project HEAD led by Professor Barrett July 8/9 2014

Visiting Lecturer at University of Dundee School of Architecture MSc courses directed by Dr Al-Waer 2009—2014

Visiting Professor at London South Bank University-Faculty Engineering Science and the Built Environment 2011—

Visiting Professor at Hong Polytechnic University 2008—2017---see other Visiting Professorships above

External Examiner at:

Centre for Alternative Technology via North East London University MSc 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.
 University of Strathclyde (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:

- Student of Dr T Yang at Ningbo University 2016
- Kingston University(Bo Ban) 2015

- Middlesex University (Julie J Riggs) 2013
- UCL (Darunee Mongkolsaswat) 2013
- Salford University (Craig Taylor) 2013
 - Imperial College of Science Technology and Medicine (O Connick) 2013
 - Loughborough University (Y Zhao) 2013
- Putra University Malaysia (A Hoseini) 2012
 - Bucharest University (C Oancea) 2012
 - Loughborough University (F McLaren-Hamilton) 2012
 - Loughborough University (F Sadr) 2011
- Alexandria University Egypt (H Hamdy)2011
- 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

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- 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 Salford University(Craig Taylor) 2013
- MPhil, University Cambridge (Murat Basarir) 2011
- 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:

Reader at Loughborough University (M Eftekhari) 2015
 Chair at Aberdeen University (M.S.Imbabi)2015
 Chair at Anglia Ruskin University (K J Jones) 2014
 Chair at UCL (D Mumovich) 2014
 Research Director Lee Kuan Yew Centre Singapore (Boonlay Ong) 2013
 Lecturer at MEARU Glasgow School of Art (S Jamieson)2013
 Post-Doctoral Researcher at Portland State University (A.G.Hoseini) 2013
 Environmental and Sustainability Coordinator at Chichester University (B Spires) 2012

Senior research position at UCL (M Emes) 2012
 Tenure Track Chair Position Aalto University School of Science, Aalto SCI,(Xiaoshu Lu) Finland(2011/2012)
 Probation for M Overend, University Cambridge(2010)
 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) now at

UCL

Personal Chair (Rev.M.Humphries), at Oxford Brookes University(December 2000)
 Chair in Building Services Engineering (personal Chair, Dr D. Loveday) at

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 (M. Corcoran) (1993)
Chair in Building Services Engineering, at UMIST (1989) (K.Letherman)
University College Cork (1993) review candidates 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:

.

Austrian Travel Fund
Carnegie Trust
City University of Hong Kong
Department of Trade and Industry (Innovation Programme) now Technology Strategy Board
now Innovate UK.
EPSRC (Materials Components Panel) (2007)

EPSRC (New Dynamics of Ageing Panel)(2008)
European Union (EU) FP6/FP7.
Journal of Environmental Assessment Policy and Management (JEAPM)
National University of Singapore. Faculty Research Committee of the School of Design and Environment.
Quebec Funds for Research on Nature and Technologies (Canada)
Springer Publications Netherlands
The Croucher Foundation (Hong Kong)
The Leverhulme Trust

Peer Reviewer

.
ASHRAE Journal
Automation in Construction
BCIA Awards Jury 2011 and 2012
Brian Mercer Awards for Innovation (Royal Society) 2005
Building and Environment
Building Research and Information Journal (*served on Editorial Board*)
Building Services and Environmental Engineer
Building Services Journal now CIBSE Journal
Building Services Research and Technology Journal (CIBSE)
Centre for Indoor Air Research, Maryland (USA)
City University of Hong Kong
Construction Management & Economics Journal
Energy and Buildings Journal (*served on Editorial Board*)
Engineering Sustainability
EPSRC College of Peer Reviewers
Ergonomics
Human Ecology Review
Indoor Air Journal 2005
Indoor and Built Environment (Editor in Chief, Prof. Chuck Yu)
Intelligent Building Services Awards. May 1st 2007,
International Journal of Architectural Engineering and Design Management, (
on Editorial Board)
International Journal of Construction Innovation
International Journal of Environment (ISSN 2186-0003)
International Journal of Environmental Research and Public Health
(IJERPH) (*Associate Editor*)
International Journal of Low Carbon Technologies (*served on Editorial Board*)
International Journal of Systems Science

INTERNATIONAL REVIEW OF APPLIED SCIENCES AND ENGINEERING(Associate Editor) , IRASE, (trampus@mk.unideb.hu) 2008-
 Journal of Civil Engineering and Management
 Journal of Construction,2007, (*served on Advisory Board*)
 Journal of Design and Built Environment.(University of Malaya)
 Journal of Engineering Design and Technology (*served on Editorial Advisory Board*)
 Journal of Environmental Management, 2006
 Journal of Environmental Modelling and Assessment, 2006
 Journal of the International Solar Energy Society, 2006
 Kuwait Foundation for the Advancement of Sciences Research Directorate (2009 -)
 Nordic Journal of Surveying and Real Estate Research (*served on Editorial Board*)
 Northern Ireland Higher Education Council (NIHEC)
 Pervasive Informatics (*serve on Editorial Board*), 2007
 Proceedings of ICE journal - Engineering Sustainability
 Renewable Energy
 Solar Energy, 2006
 Sustainable Cities and Society [scs@elsevier.com]
 The Institution of Civil Engineers
 The International Journal of Sustainable Built Environment(*serve on Editorial Board*)
 The Open Construction and Building Technology Journal (*serve on Editorial Board*), (2007-)

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
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
ISIAQ	International Society of Indoor Air Quality
TSB	Technology Strategy Board
REHVA	Federation of European Heating and Air-conditioning Association

Emeritus Professor in Architectural Engineering D.J. Clements-Croome
 University of Reading,
 July 2015