

## CURRICULUM VITAE

### Name

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

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

Re-appointed as Commissioner for Ministry of Construction, Beijing (2003- )

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 Cracow University, April 9-10, 2001, May 13-14, 2002 and May 20-21, 2004.

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

Director of Intelligent Buildings Research Group ( 2005 - )

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

Editor/Founder of *International Intelligent Buildings Journal* (James & James 2006).

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 Jianshu 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- ). Since 1988, I have raised over ;3.0 m 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 and Founder of IGDS *MSc Course in Intelligent Buildings* funded by EPSRC in 1997 for 5 years.

Other management responsibilities include (i) Natural Ventilation Group (CIBSE national body); (ii) CIBSE Whole Life Performance Task Group. Past Chairman of Education and Learning Group (CIBSE national body); Management Board for European Intelligent Buildings 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. Participate in academic and financial planning of University via my past membership of Senate and past membership of Council and the Faculty Board and currently as Director of Research and member of Faculty of Science and Life Science Research Board.

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

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 / 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).

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**

**EPSRC Identifying a good Briefing and Procurement Approach for Schools Project, H 30711 ;47,661 (2005 - 2008 )**

**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 Imperial College, 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.

**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 earmarked 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 Jardineri`.

**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).

**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, ∫1 00,000).

**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 (1 989-92); 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- ).

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).

Basildon New Town development; Internationale Bausausstellung Berlin with Frei Otto (Ecohouses) 1986; DoE Solar Energy Project; Canadian Township (1981).

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).

## **MEMBERSHIP OF COMMITTEES**

## **Present:**

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

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 of *National Conference of University Professors* (2003- ); elected Vice President for NCUP from 2005; President 2006.

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

Member of Executive Committee for *European Intelligent Building Group* (1996- ) now Intelligent Building Group and elected Deputy Chairman (2001-2002,2003-2004) and Chairman (2002 - 2003); member of Colloquium (2003-).

Member of Management Committee for *South East (formerly Thames Valley) Centre for the Built Environment in Construction* (1996- ). Founder and former Chairman. Now South East Centre for the Built Environment (SECBE).

Member of *Built Environment College for Engineering and Physical Sciences Research Council* (1995 onwards and re-elected 2005).

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

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

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**

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 *Government Science and Technology Advisory Board* in Taiwan (2005- )

Member of *Memoranda of Understanding* concerning courses and research in Intelligent Buildings arranged with Temasek and Shenyang Ligong University, (2004)

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

Visiting Professorships at Tianjin (2000), Chongqing Jianzhu (1995), Shenyang Jianzhu (2002), Shenyang Ligong and Benxi Universities (2002) in China.

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*.

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:**

*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 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**

### **External Examiner at:**

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:**

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, 1993 - 94. (M. Doyle)  
 Loughborough University, 1988 (T.C.B.F.Gennari)  
 Liverpool University, 1977 (R.Doig)

## **MSc Examiner**

M.A Examiner Manchester Metropolitan University (Decker-Jung) 2003.  
University of Strathclyde (Bonthron) 1983  
UMIST (Kwong), 1983

## **Staff Appointment Adviser for:**

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.Himanan) (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, February 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 - )

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

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**

(See publications list)

### **Project Evaluator for:**

EPSRC (Materials Components Panel)

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).

### **Peer Reviewer**

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 (serve 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;

Human Ecology Review;  
Nordic Journal of Surveying and Real Estate Research (serve on Editorial Board);  
Brian Mercer Awards for Innovation (Royal Society) 2005;  
Indoor Air Journal 2005;

## GLOSSARY OF SOME ABBREVIATIONS

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 Institute 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

Professor D.J. Clements-Croome  
University of Reading,  
9 December 2005,

## Books

Some of the recent books by the Professor Clements-Croome.

### Intelligent Buildings: Design, Management & Operation

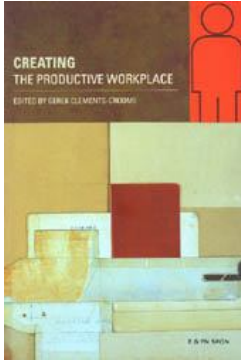


**Publisher:** Thomas Telford  
**ISBN:** D 7277 3266  
**Pub Date:** September 2004  
**Type:** Hardback Book  
**Price:** £49.50  
**Extent:** 424 pages (Dimensions 243x170 mm)

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## Books

Some of the recent books by the Professor Clements-Croome.



### Creating the Productive Workplace

**Publisher:** Taylor & Francis  
**Pub Date:** 23 Sep 1999  
**Type:** Hardback Book  
**Price:** £75.00  
**Extent:** 384 pages  
**Illustrations:** 100 line drawings

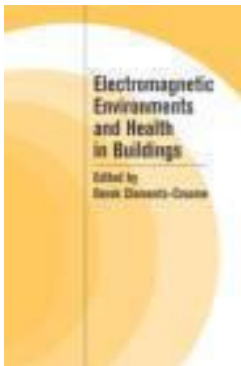
[DETAILS](#)



### Naturally Ventilated Buildings

**Publisher:** Taylor & Francis  
**Pub Date:** 23 Sep 1999  
**Type:** Hardback Book  
**Price:** £75.00  
**Extent:** 384 pages  
**Illustrations:** 100 line drawings

[DETAILS](#)



### Electromagnetic Environments & Health in Buildings

**Publisher:** Spon Press  
**ISBN:** 0415316561  
**Pub Date:** 13 NOV 2003  
**Type:** Hardback Book  
**Price:** £75.00  
**Extent:** 560 pages (Dimensions 234x156 mm)

[DETAILS](#)

## PUBLICATIONS

### Books

- 2006 Editor and \Part Author *Creating the Productive Workplace*, Second Edition, E & FN Spon.
- 2004 Editor and \Part Author of book *Intelligent Buildings*, published by Thomas Telford Ltd., ISBN 0 7277 3266 8. (Available in Chinese in 2006)
- 2003 Editor \Part Author of *Electromagnetic Environments and Health in Buildings*, E & FN Spon.
- 2000 Editor \Part Author of *Creating the Productive Workplace*, E & FN Spon.  
ISBN 0419 2336902
- 1997 Co. Author and Editor of book *Naturally Ventilated Buildings*, E & FN Spon.  
ISBN 0419 215204

- 1997 Part Author of *Natural Ventilation in Non-domestic Buildings: Applications Manual AM10*: 1997, CIBSE.
- 1991 Editor of book on *Radiant Heating Systems* by Professor L J Banhidi, Pergamon Press, collaborative project with Technical University of Budapest.
- 1986 Editor of book *Fundamentals of Solar Passive Building* by Sodha, Bansal and Malik (Centre of Energy Studies, Indian Institute of Technology and Energy Department and the World Bank, Washington), Pergamon Press.
- 1982 *Noise and the Design of Buildings and Services* (Editor and part author), Construction Press.
- 1981 *Airconditioning and Ventilation of Buildings* (with B M Roberts), Pergamon Press, 466 pages, 2nd Edition (also in Russian and Chinese).
- 1977 *Quality and Total Cost in Building and Services Design* (edited with A F C Sheratt). Spanish edition by Professor Ausuategui and C Holm published by Gustavo Gill, Barcelona.
- 1977 *Noise Buildings and People*, Pergamon.
- 1975 Technical Editor for *Basic Principles of Automatic Control*, by W H Wolsey, Hutchinson.
- 1975 *Airconditioning and Ventilation of Buildings* (with B M Roberts, Pergamon Press, First Edition).
- 1972 *Condensation in Buildings* (edited with A C Sherratt), Applied Science.

**Book Reviewer** for following Journals:

*Energy and Buildings*

*Building Services*

*Building Services and Environmental Engineer*

*Ergonomics*

*Building Services Engineering Research and Technology*

*Construction Management & Economics*

**Building Research and Information Journal**

**Editor** of International Journal of Intelligent Buildings (James and James publishers) founded in 2005.

Former editor of International Series for Pergamon Press on Building Environmental Engineering 1980-90: which included:-

Volume 1 published January 1982:

*Building Services Engineering: A Review of Developments* by Billington/Roberts (history of building services).

Volume 2 published 1986:

*Fundamentals of Solar Passive Building* by Sodha, Bansal and Malik (Centre of Energy Students, Indian Institute of Technology and Energy Department and The World Bank, Washington).

Volume 3 published 1989:

*Radiant Heating* by Dr L Banhidi (Hungarian Building Research Institute, Budapest).

Volume 4 published 1989/90:

*Dynamic Environmental Control in Buildings* by Isfalt, Sodergren and Brown (Royal Institute of Technology, Stockholm).

Member of Editorial Board of HVCA Journal (1990-94).

## 2005

Irving S., Clements-Croome D.J., et. al., (2005), *Natural Ventilation in non-Domestic Buildings*, Application Manual AM10 (Second Edition), Chartered Institution of Building Services Engineers Publications, ISBN 19032876 (Steering Group Contributor)

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### Books

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- 2004 Editor and Part Author of book *Intelligent Buildings*, published by Thomas Telford Ltd., ISBN 0 7277 3266 8. (Available in Chinese in 2006)
- 2003 Editor Part Author of *Electromagnetic Environments and Health in Buildings*, E & FN Spon.
- 2000 Editor Part Author of *Creating the Productive Workplace*, E & FN Spon. ISBN 0419 2336902
- 1997 Co. Author and Editor of book *Naturally Ventilated Buildings*, E & FN Spon. ISBN 0419 215204
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- 1991 Editor of book on *Radiant Heating Systems* by Professor L J Banhidi, Pergamon Press, collaborative project with Technical University of Budapest.
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- 1977 *Noise Buildings and People*, Pergamon.
- 1975 Technical Editor for *Basic Principles of Automatic Control*, by W H Wolsey, Hutchinson.

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Croome, D.J., and Toyne, H., *Occupant Behaviour and Energy Consumption in Secondary Schools*, Avon County Council, for Mid-West Energy Group, 20 February.

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Croome, D.J., *Energy Data Analysis*, Seminar for Mid-West Energy Group, 10 October.

Croome, D.J., *Covered Townships in Cold Climates*, Huntingdon Centre for Appreciation of History and Architecture, Bath, 11 November.

Croome, D.J., *Perception and Thermal Comfort*, Royal College of Arch, 26 November.

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Croome, D.J., *Development in Building Environmental Engineering*, Building Research Institute, Bucharest, 24 September, and Institute of Construction, University of Bucharest, 25 September.

Croome, D.J., *Energy Efficient Design*, Huntingdon Centre, Bath, 15 October.

Croome, D.J., *Theory and Practice of Building Environmental Engineering*, Royal College of Art, London, 27 November.

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Croome, D.J., *Northern Covered Township* at North Sun Conference, Napier College, Edinburgh, 4-7 September.

Croome, D.J., *The Role of Building Environmental Engineering in the Building Design Process - Engineering Education : Design Studies*, ed: D E P Jenkins, CDG Working Group on Curriculum Development, 23-26 October, Seminar held at Napier College, Edinburgh, 73-83.

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Croome, D.J., *Saving Energy in Hospitals by Co-ordinated Decision Making* (with V J Sinclair) at Second International Congress on Building Energy Management, 30 May - 2 June, Iowa State University.

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Croome, D.J., *Environmental Engineering Aspect of Coalmines*, *Building Services Engineer*, **45**, January, 175-185.

Croome, D.J., *Education Plan for the Building Services Industry Eastern Regional Organisation for Planning and Housing*, VI Congress, New Delhi, India, 19-25 February, (refer to CS Chanrasekhara, Secretary General).

Croome, D.J., *Industry and University Interdependence* (in collaboration with P Wild, Managing Director of Conder M & E Limited) at Conference on Building Environmental Engineering Higher Education, 17-18 April, organised by Loughborough University in collaboration with CIBSE.

Croome, D.J., *Postgraduate Education: Current Courses, Future Needs*, (with R Shields) at Conference detailed above.

Croome, D.J., *Man's Response to the Environment*, at CIBSE Symposium, Man, Environment and Buildings Symposium on 28 September, held at Loughborough University. Published in CIBSE Proceedings, 1-20.

Croome, D.J., *Building Environmental Engineering Higher Education*, Building services and Environmental Engineer Vol 1 (2), 12-14, November.

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Croome, D.J., *Building Environmental Engineering Education* at European Conference on Environmental Education organised by the Institution of Environmental Sciences, London, 26-28 April.

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## 1976

Croome, D.J., *Predicting the Sound Emission from Airconditioning and Ventilation Systems*, presented at Ventilation and Airconditioning Conference, 22-27 March 1976, Budapest, also in Applied Acoustics **9**, October 1976.

## 1975

Croome, D.J., *An Education Plan for the Building Services Industry*, Building Services Engineer, **43**, (10), 141-147, also presented at the Society of Local Government, Chief Engineers Annual Meeting at the Royal Commonwealth Society on 19 June.

Croome, D.J., *The Role of Feedback in Building Design*, Presented at the Institution of Heating and Ventilation Engineers Symposium, Buildings and the User, London, 30 October. (Chairman of the Task Group who planned this Symposium).

## 1974

Croome, D.J., *The Role of Acoustics in the Building Design Process*, 7 March, Sessional meeting of East Midlands Branch of Inst Heat Vent Engrs at Nottingham University (also presented at Noise Control Conference, University of Wales, Cardiff, April 1972).

Croome, D.J., *Environmental Services in Buildings*, at Institution of Electrical Engineers Vacation School called 'The Electrical Engineer's Role in the Planning and Management of Buildings' held at University of Bath, 8-12 September.

Croome, D.J., *Application of the Articulation Index to the Acoustical Design of Landscaped Offices*, with A D Brook (1974 Environmental Engineering Graduate) in Proceedings of Inter-noise 74 Conference held in Washington DC, USA, October.

Croome, D.J., *Energy and Buildings*, at Building Design Centre, Nottingham, Conference organised by the Royal Institute of British Architects (East Midlands Branch), 23 October.

## 1973

Croome, D.J., *What's In a Name?*, Building Services Eng, **41**, A31-33.

## 1972

Croome, D.J., *Education of Environmental Engineers in British Universities*, Building Services Engineer, **40**, 33-37.

Croome, D.J., *The Emergence of Environmental Engineering in British Universities*, American Society of Heating, Refrigerating and Airconditioning Engineers Journal **14**, (11), 57-60.

## 1971

Croome, D.J., *Sound Sources in Airflow Systems* (with L J Stewart) J Inst Heat Vent Engrs, **38**, 239-252. (Awarded the Institution of Heating and Ventilating Engineers Bronze Medal).

Croome, D.J., *The Environment: Heating, Lighting and Airconditioning*, Materials Control and Economics Conference, London, 7-8 June.

Croome, D.J., *Acceptable Noise Levels in Doctors' Consulting Rooms*, Paper (24S9) (with Richards and Matthews) Seventh International Congress on Acoustics, Budapest.

Croome, D.J., *The Role of Appraisal Studies in the Building Design Process*, Conference on the Integrated Design of Buildings, Loughborough University of Technology, 5-6 July.

Croome, D.J., *Noise Sources in Ventilation Systems*, Proceedings of the Conference on Ergonomics and Physical Environmental Factors, published in Ergonomics and Physical Environmental Factors No 21, in Occupation, Safety and Health Series, International Labour Office, Geneva.

Croome, D.J., Series of Lectures published by the Building Research Establishment for the American University in Beirut: *Concept of Comfort; Airconditioning and Ventilation in Environmental Control; Seminar on Education in Environmental Engineering; Airmovement Through Systems in Occupied Spaces*.

## 1970

Croome, D.J., *The Acoustical Environment in Buildings*, J Inst Heat Vent Engrs **38**, 32-41.

Croome, D.J., *Noise Sources in Buildings*, J Inst Heat Vent Engrs, **38**, 60-66.

Croome, D.J., *The Acoustics Environment in Buildings*, University of Reading, International Conference on Working Environment, March.

Croome, D.J., *The Insulation and Isolation of Buildings From External Noise and Vibration* (with Professor D J Johns), PERA Conference, May.

## 1969

Croome, D.J., *Road Traffic Noise - Its Nuisance Value*, (with C G Bottom) Applied Acoustics (2), 279-296.

## 1968

Croome, D.J., *The Acoustics in Airconditioning Systems*, International Symposium, London by HEVAC.

Croome, D.J., *Noise Sources in Ventilation Systems*, International Symposium on Ergonomics and Physical Environmental, Rome.

## 1967

Croome, D.J., *Progress in Some Heating and Ventilation Concepts on the Continent*, Institute of Sound and Vibration Memorandum 160, University of Southampton. (Awarded Travel Scholarship in 1966). (Internal publication).

Croome, D.J. *An Ionisation Anemometer*, Heating and Ventilating Engineer, April, 511-515.

Croome, D.J., *A Survey of Ventilation System Noise In Lecture Rooms*, Symposium on Heating and Ventilating for a Human Environment, Southampton University (with Richards and Dunmore) Proc I Mech I, **182**, (3E), 138-151.

Croome, D.J., *The Problem of Traffic Noise*, International Conference, Ministry of Transport and the British Road Federation, Keele University.

### **1966**

Croome, D.J., *The Acoustics of Ventilation Ducts*, MSc Dissertation, London University. (Internal publication).

Croome, D.J., *Chimney Design*, J Inst Heat Vent Engs, **34**, 165-174.

### **1964**

Croome, D.J., *Wave and Particle Concepts in Physics*, unpublished but awarded Undergraduate's Prize.

Croome, D.J., *Research Project No 122 on Air Ionisation*, Brightside Heating & Engineering Co Limited. (Internal publication).

### **1963**

Croome, D.J., *Some Investigations into the Performance of Medium Temperature Radiant Heating Sources*, J Inst Heat Vent Engs **31**, 99-109. (Awarded IHVE Graduate Diploma for this paper).

### **1962**

Croome, D.J., *Research Project No 111 on Single-Pipe Water Distribution Networks*, Brightside Heating & Engineering Co Limited. (Internal publication).

Professor of Architecture Engineering  
University of Reading  
8 December 2005



**Silver Medal**

On the 5<sup>th</sup> May 2005 Prof Derek Clements-Croome was awarded the Silver Medal by the Chartered Institution of Building Services Engineers.

### **National Conference of University Professors**

Prof. Derek Clements-Croome has been elected Vice-President of National Conference of University Professors at their Annual Assembly recently. His term as President commences in 2006