

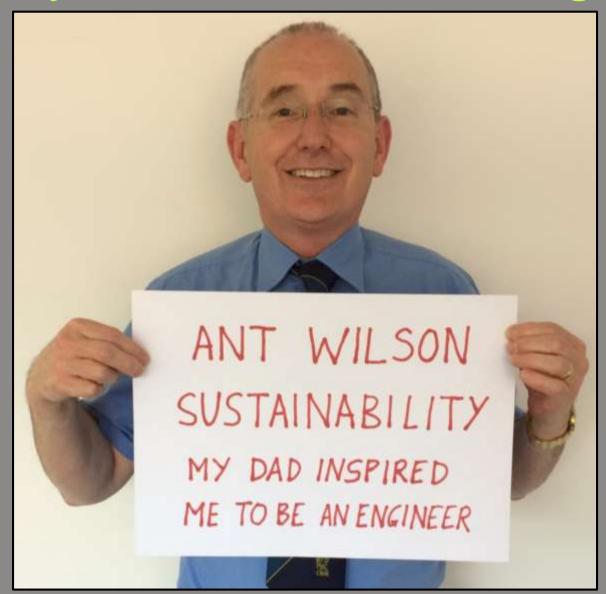
# Ant Wilson MBE FREng BSc CEng FCIBSE FEI FSFE MSLL

# People, Places and Projects



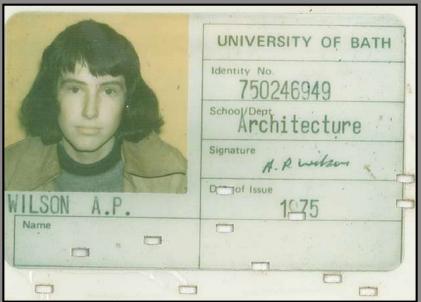


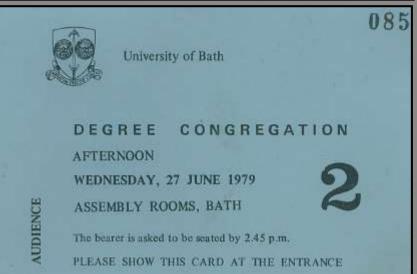
### My Dad – Colin Wilson CEng, MIMechE





### University of Bath Student (1975-1979)





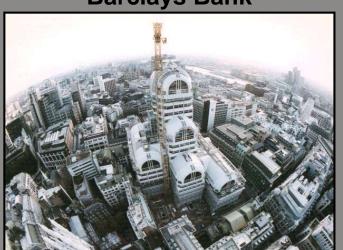


#### Joined Oscar Faber – July 1979





**Barclays Bank** 



**Dr Oscar Faber** 



**Earls Court** 



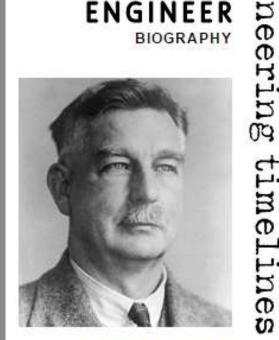
**AECOM** 

### Oscar Faber (1886 – 1956)

timelines

#### ENGINEER

BIOGRAPHY



All items by Oscar Faber All items by Oscar Faber & Partners Everything built ... 1886 - 1956

This feature is sponsored by

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#### Oscar Faber

Oscar Faber CBE 1944-45

born 5th July 1886, London

died 7th May 1956, Harpendon, Hertfordshire, UK

era Modern

Written by Jane Monson, edited by Eleanor Knowles and Jane Joyce

Dr Oscar Faber, OBE CBE DCL(Hon) BSc DSc MICE MIMechE AMIEE PPIHVE FCGI,

was president of two professional bodies — the Institution and the Institution of Heating & Ventilating Engineers (194 World War I work on non-magnetic mine casings and his C House of Commons after World War II.

Faber was among the small group of engineers working w infancy. His pioneering work on the theory and practice of particularly his development of what is now called 'limit sta rules of thumb, set the criteria for modern methods. Many of industry standard practice. He also made significant contril and their integration into structures. He liked form to be did that practical buildings could be beautiful.

Perhaps his best-known work is the new Bank of England Like his contemporary OVE ARUP, Faber relished opportun breaking structures and believed that engineer/architect co Nevertheless, on work such as the underpinning of Durha Spillers' mills, he worked entirely successfully without an a



John Robert Kell, President HIVE 1952-53 (Oscar Faber & Partners

#### Major Early Influences at Oscar Faber



#### Computers in Building Services Engineering

by P. L. Martin

Oscar Faber & Partners, St. Albans, Herts. ALI 3HT (Great Britain)

Build International (7) (1974)— Applied Science Publishers Ltd, England, 1974—Printed in Great Britain
481

The development of computer programs in the field of building services engineering has accelerated considerably in the United Kingdom over the past five years. Whilst co-ordination by Central Government has been attempted, this has been only partially effective. Commercial bureaux offer a variety of simple 'closed circuit' programs but the real long term exercises are currently directed towards the totality of the design process, including cost control. The use of a CRT visual display unit in interactive design, with emphasis upon full co-ordination with the building structure, is probably the practice which shows most promise for the future.







Doug Oughton

Roger Cunnings Richard Tomlins

#### Oscar Faber Association with IHVE & CIBSE

#### Past Presidents of IHVE/CIBSE

1945&1946 **Oscar Faber** 

Robbie Kell 1952

**Peter Martin** 1971

**Jack Gura** 1982

Alec Moir 1995

2002 **Doug Oughton** 

**Rob Manning** 2010





### **Heating & Air-Conditioning of Buildings**

First published 1936
Second edition 1943
Third edition 1957

Fourth edition 1966

Fifth edition 1971

Sixth edition 1979

Seventh edition 1989

Eighth edition 1995

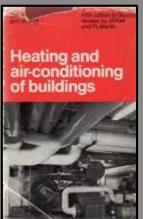
Paperback edition 1997

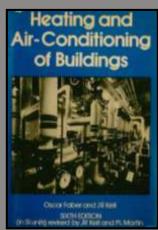
Ninth edition 2002

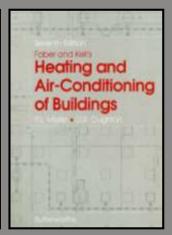
Tenth edition 2008

**Eleventh Edition 2015** 

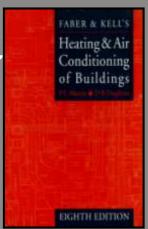


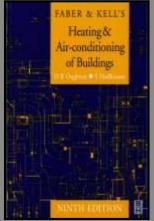


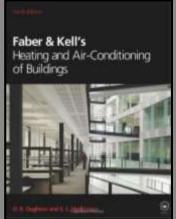




#### Faber & Kell









# **Faber Computer Operations**







### **BSERT Paper 1981 with Steve Irving**

#### BSER & T

Building Services Engineering Research & Technology

- 151 Validation of a smoke movement program
- 160 The use of flux temperatures in thermal design
- 165 Condensed statistics of the CIBS example weather year
- 174 The performance of an air-water heat pump
- 181 Using the admittance method for intermittent plant operation

#### **Technical Notes**

- 188 Linear models for peak cooling loads
- 191 Capacity index and velocity pressure factors
- 193 Book Reviews
- 196 New Publications

1981

Volume 2

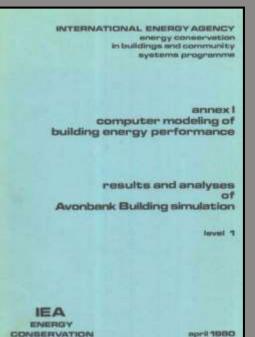
Number 4

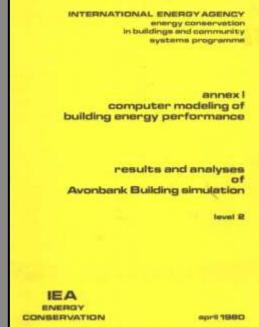
CIBS Series A

Summary Deaths due to toxic fumes produced during a building fire account for over 50 per cent of all fire deaths. This has given rise to the need for more detailed studies of smoke movement, particularly in health buildings. The development of computer techniques has provided methods to model various smoke control systems and test their effectiveness for any given fire condition. This paper describes the validation of the computer program developed by Oscar Faber and Partners for predicting the spread of smoke through buildings. The predicted smoke spread is discussed in relation to the known smoke spread following a fire in a large hospital complex.

#### Validation of a smoke movement program

S. J. IRVING, BSc(Eng), MCIBS and A. P. WILSON, BSc





#### **AIC and AIVC Conferences**



#### 8th AIVC Conference - Ueberlingen, West Germany - 21-24 September 1987

The 8th AIVC Conference - Ventilation technology research and application, was held in Ueberlingen, West Germany, 21-24 September 1987.

Contains 40 papers







#### 7th AIVC Conference - Stratford-upon-Avon, UK - 29 September-2 October 1986

The 7th AIVC Conference - Occupant interaction with ventilation systems was held in Stratford-upon-Avon, UK, 29 September - 2 October 1986.

Contains 27 papers.







#### 6th AIVC Conference - Southern Netherlands - 16-19 September, 1985

The 6th AIVC Conference - Ventilation strategies and measurement techniques was held in the Southern Netherlands, 16-19 September 1985.

Contains 32 papers.







#### 5th AIVC Conference - Reno, US - 1-4 October, 1984

The 5th AIVC Conference - The implementation and effectiveness of air infiltration standards in buildings was held in Reno, Nevada, US, 1-4 October 1984.

Contains 24 papers.

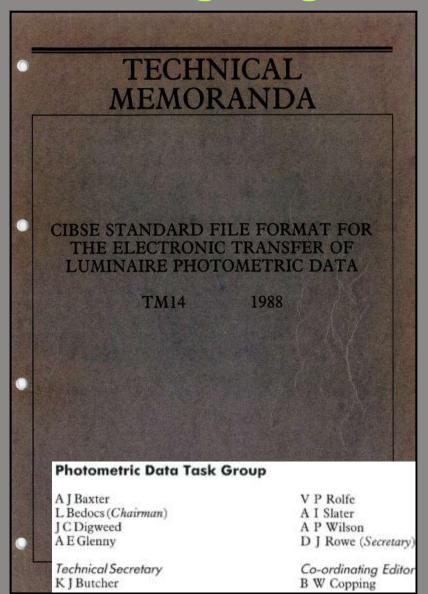


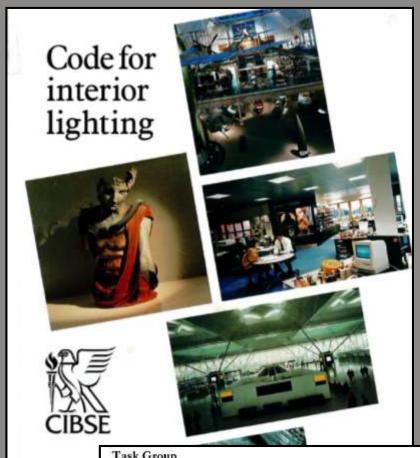






### CIBSE Lighting Design Guidance





#### Task Group

R C Aldworth (Chairman)

C M Parry

I E Baker

K B Pike (Secretary) A I Slater

R I Bell D J Carter

A Tammes

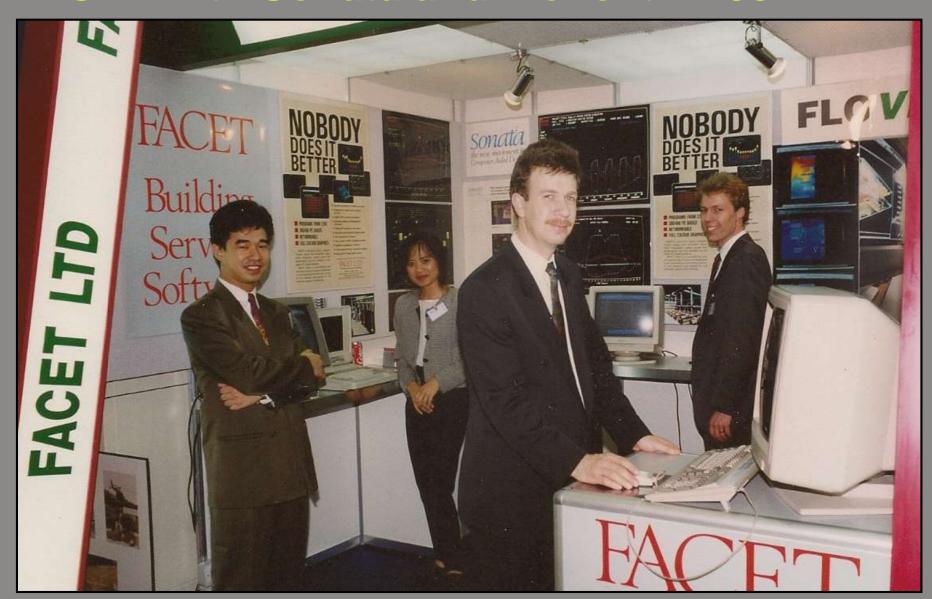
E T Glenny

PR Tregenza

B D Jacob R M Kerswill

A Wilson A P Wilson

#### FACET with Sonata and FloVent – 1991

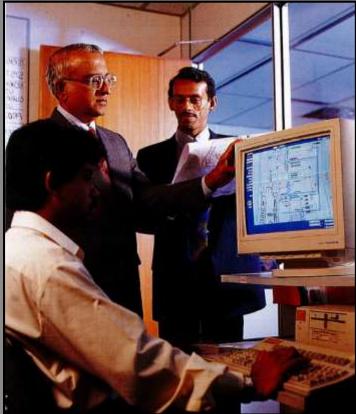


# **FACET Marketing in Shanghai 1994**





#### Nair Ven Oscar Faber SDN BHD

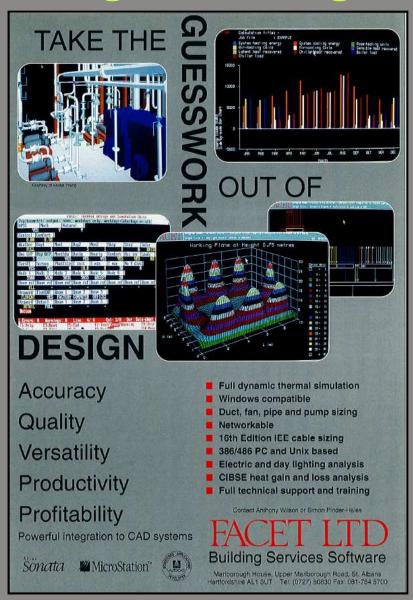


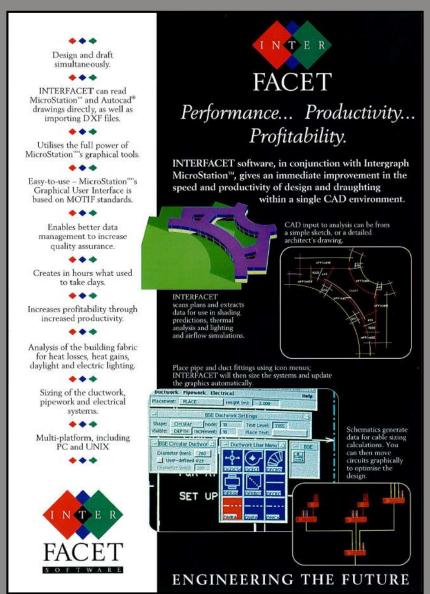
In order to aid our work NAIR VEN OSCAR FABER SDN BHD has invested heavily in computerising many of our work areas especially in design and drafting. By upgrading, we have improved the standard of service, the quality of drawings and co-ordination. To date we have Design Software Packages for Lifts, Air Conditioning, Electrical Services and Structural Analysis + Design Packages.





### Design and Integration of Software





#### **IES Acquire Facet Software**



#### IES ACQUIRES FACET

In October 1996, IES expanded its business horizons with the successful acquisition of the FACET software from Oscar Faber, one of the world's leading building engineering companies.

Revealing the growing ambitions of IES, Doug Wilkie, the company's Commercial Director, described the takeover as "a move that underlines IES as the market leader in providing the most complete and relevant set of building design software for the construction industry." and its proven validity, through hundreds of man-years of use within Oscar Faber and other organisations. This makes Facet a perfect match with the current performance based <Virtual Environment> software".

**Shared Vision** 

# IES Scoops Start-Up of the Year Award

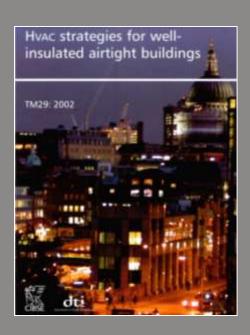
With its emerging <Virtual
Environment> system, IES was
recently announced winner of the
Young Start category of The 1996
Glasgow Business Start-Up of the
Year Awards. At the awards
ceremony in Glasgow, the directors
of IES were presented with £20,000, a
trophy and a framed certificate.

More than 200 firms entered the competition, which was run and supported by the Glasgow Development Agency (GDA) and sponsored by the Royal Bank of Scotland and The Herald newspaper. The awards are intended to highlight early successes and promote the

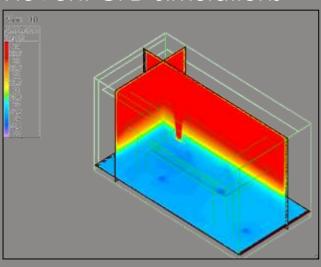
#### Oscar Faber Applied Research

#### BRE Environmental Tests

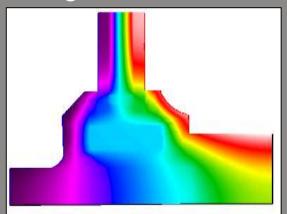




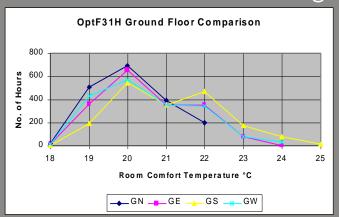
FloVent CFD Simulations



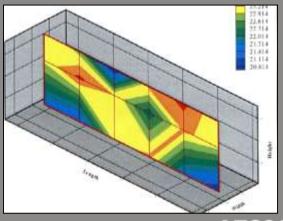
Pilkington Windows



**APACHE Thermal Modelling** 



Test Results



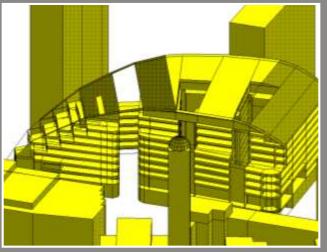
People, Places & Projects

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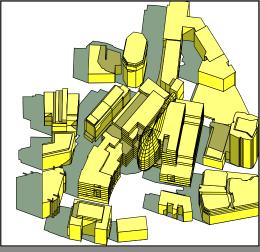
**AECOM** 

### **Computer Modelling**

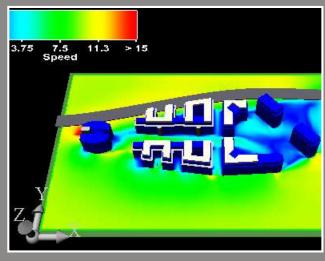
ModelIT



SunCAST



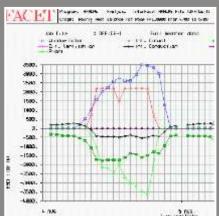
FloVent CFD Simulations



MicroStation

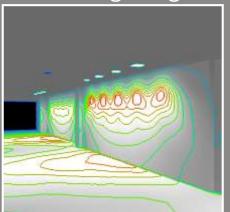


APACHE



Radiance Daylight Electric Lighting



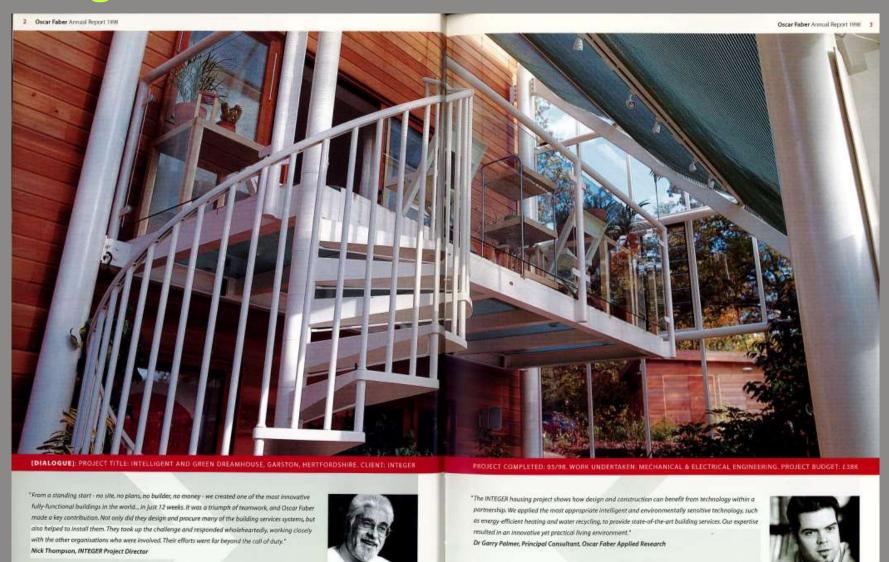


People, Places & Projects

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# Integer House in Oscar Faber AR 1998



# **INTEGER House Projects**





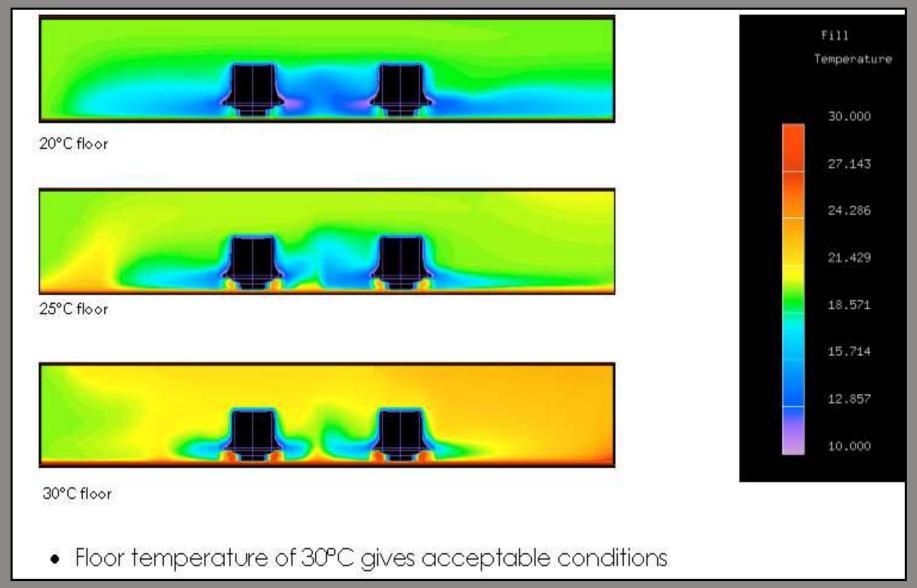




People, Places & Projects

AECOM

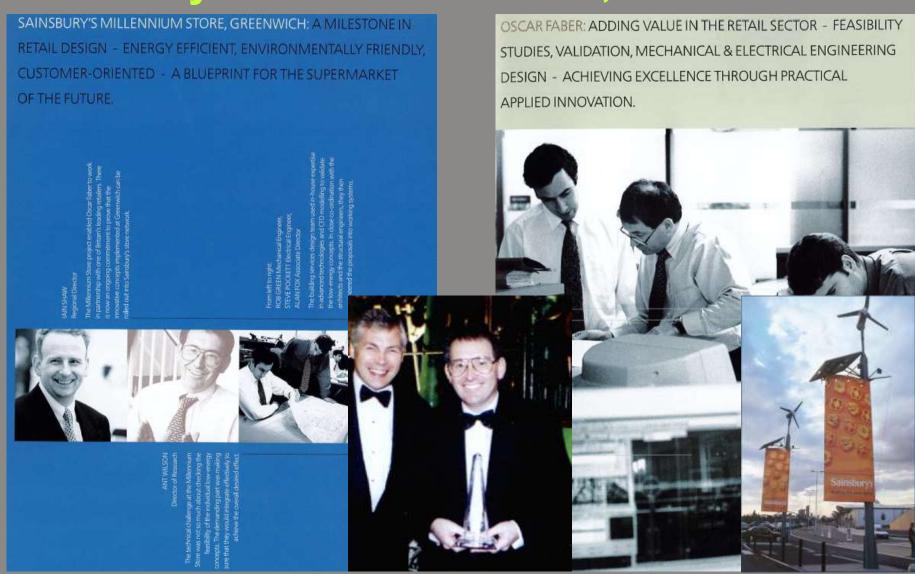
### CFD Analysis of Food Store



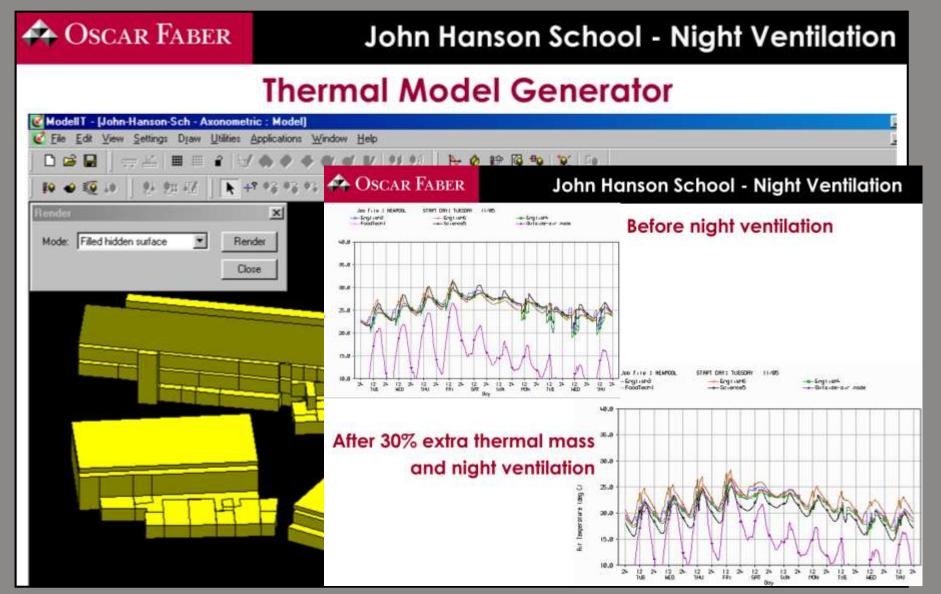
# Sainsbury's Low Energy Store at Greenwich



### Sainsbury's Millennium Store, Greenwich



#### Work on John Hanson School, Andover



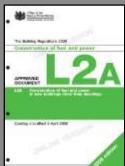
## Building Regulations Part L (02, 06, 10 & 13)



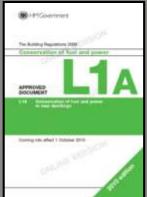




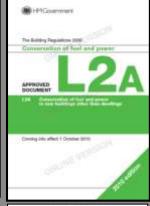


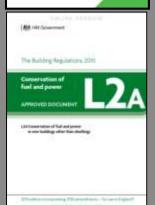




















All IN Comment

# Low Energy / Innovation Projects



#### **Xscape, Milton Keynes**



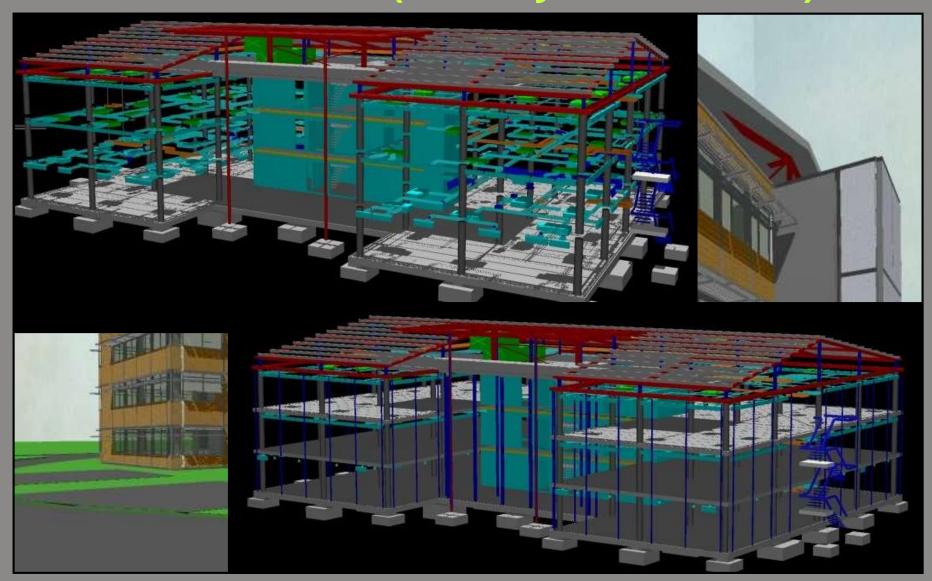


The first Xscape opened in Milton Keynes in June 2000 and since then has had more than 4m visitors - only 1m fewer than the Millennium Dome ever managed during its miserable history. Housed in a huge hall that is kept two degrees below freezing, it has a 170m indoor ski slope - the longest in Europe at the time.





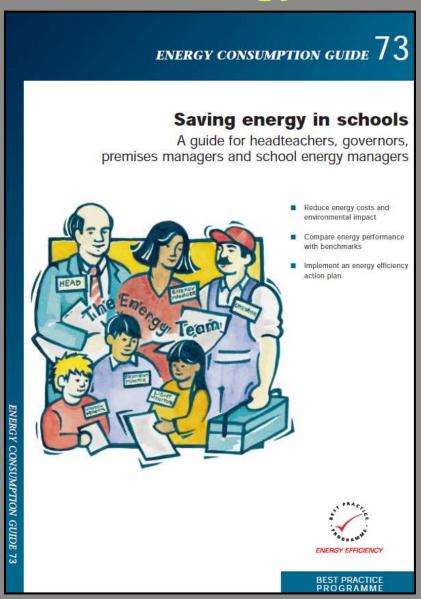
# **TEAMWORK 2000 (Bentley Award 2000)**

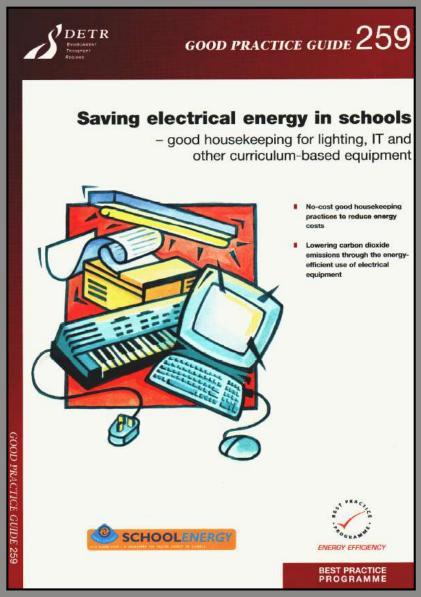


### **Bentley 2001 Success Awards**



### **School Energy Consumption Guides**





### **Odyssey Sports Arena, Belfast**



#### The Bid for Ground Zero 2002

Presentation to DMJM+Harris

FABER MAUNSELL

#### Ant Wilson – Director of Advanced Technology

- Overall responsibility for the utilisation of advanced technology techniques for your projects
- Responsible for the development of appropriate innovative engineering solutions
- Responsible for the integration of sustainable construction techniques into mainstream design
- Responsible for the development of low energy solutions
- 20 years experience of working with project teams in the development of advanced technologies



### **One World Trade Center & PATH**



AECOM

# Path Terminal, New York City



# Unity City Academy, Middlesbrough



### CIBSE TM35:2004 – Façades

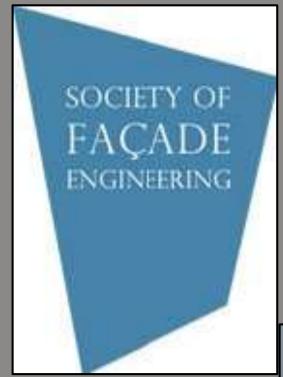
Environmental performance toolkit for glazed façades



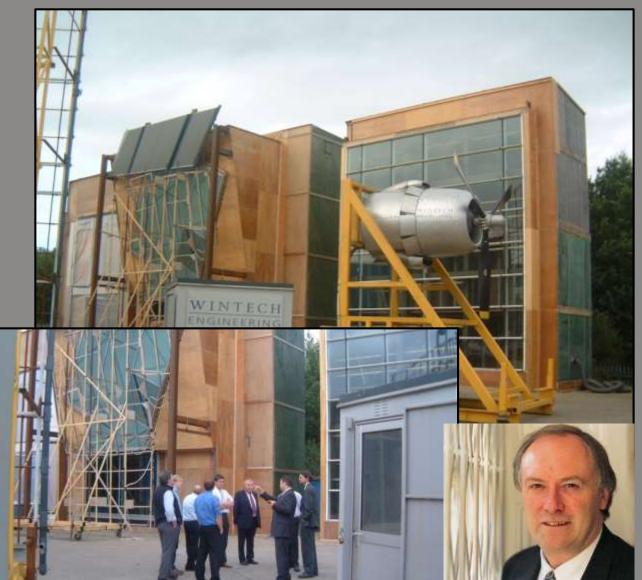




# Society of Facade Engineering



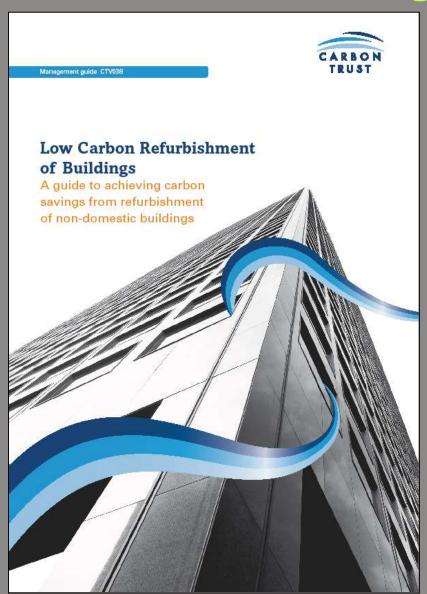




# **BP Office Redevelopment, Dyce**



### **Low Carbon Building Accelerator**



Phase		Low Carbon Refurbishment Process	Page	RIBA Work Stages <sup>5</sup>
Prepare		Committo a low carbon refurbishment	7	Preparation
	•	Establish a low carbon vision for the refurbishment	7	A Appraisal
	•	Develop a low carbon outline brief	7	
	•	Establish the current carbon footprint of the building	8	B Design brief
	•	Set carbon targets for the refurbishment	8	
	•	Undertake a pre-refurbishment assessment	9	
	•	Consult stakeholders	10	
	•	Consider a budget for low carbon elements	10	
	•	Appoint a carbon champion	11	
		Choose an appropriate design team	11	Design
		Empower the design team	12	C Concept
Design		Keep the low carbon theme up front	13	Design development
		Develop an integrated low carbon design	13	
	t	Encourage exploration of a wide range of low carbon options	14	
		Allow flexibility in design	15	
		Use energy modelling data	16	■ Technical design
		Use whole life costing to support low carbon solutions	17	
		Manage the budget and scope	17	
		Approve the integrated design	18	
		Include targets in contracting arrangements	18	Pre-construction
Construct	i	Ensure effective project management	19	F Production information G Tender documentation
		Choose an appropriate contractor and subcontractors	19	H Tender action
		Get buy-in from site workers	19	Construction
		Monitor site progress against objectives	20	■ Mobilisation
	ı	Ensure high quality commissioning	20	Construction to practical completion
		Set up energy monitoring	20	
Use		Make sure the occupants understand the building	21	Post practical completion
	ı	Make sure the building operator understands the building	21	Post practical completion
		Conduct a post-occupancy evaluation	22	
	١	Check energy use and comfort conditions and make changes	22	
		Make the most of the low carbon building	22	

# King Alfred Development, Brighton



#### Cardinal Place, Victoria, London



Cardinal Place is a retail and office development in London. The site consists of 2/3 buildings covering over a million square feet opposite Westminster Cathedral and was designed by EPR and topped out in December 2004.

# **BAS Halley 6 in Design & Operation**

RIBA Competition Lauched 26/6/04 86 Teams globally entered







# Michael Wright at BAS Halley V,



# **BAS Halley 6 in Operation**





# **Broadcasting House, London**



#### **AECOM Listed on New York Stock Exchange**



AECOM and its more than 30,000 employees worldwide experienced a historic company event earlier this month when shares of AECOM common stock listed on the New York Stock Exchange (NYSE) under the ticker symbol "ACM."

The company received a warm Wall Street reception on May 10th, its first day as a publicly traded company.

#### Faber Maunsell makes FT Best Workplaces Table

Faber Maunsell has placed in the Financial Times 50 Best UK Workplaces 2007.

"We have been associated with 'Best Company to Work for' initiatives since 2001 and have received eight FT or Sunday Times awards since then," said Chief Executive, Ken Dalton, "As we have featured in this type of initiative for seven years, this 'Financial Times 50 Best Workplaces' Award displays our consistency as a good employer – but we are always seeking to improve further.

"We have certainly worked hard to develop a forward-thinking management philosophy that encourages individuals to realise their own potential and take a personal stake in the company's future. Our success in these awards, and our own staff surveys over the last nine years have shown that our people are proud of working for Faber Maunsell."

The Great Place to Work Institute® UK believes that to find the best places to work in the UK, you have to ask the staff, so that is what they did. Employee questionnaires were sent to a random sample of 400 Faber Maunsell staff. The results formed a vital part of the extensive research carried out to identify the UK's 50 Best Workplaces. Any

# **London 2012 Olympics**



# **Rio Olympics 2016**



# Al Wakrah Stadium, Qatar







#### STEM Ambassador





MBS PERSPECTIVE

# Introducing school children to the excitement of engineering

the pupils at school do not know about building-services engineering, how can they expeats an interest in joining the profession?

And Wilson

shares his experiences in taking the initiative and making them aware of the exchanges of engineering.

his many poole opens carrain dent the durings of people and delta in the building services industry, one will sense their three constitutes and variety partan downed, discessing within plane and interthing week.

Magneticle to Heritordalitie a dedicated group of people from a large flow of cascoding engineers to diving reach more than just with.

For many muss. And Wilson of Ester Statement, etchick and a sour of dreat Ni embounders, his head of a sour of dreat Ni embounders, his head of sour of dreat Ni embounders, his head working with administration in the own to provide working with a state of a source of a postular and a statement of the continuous best of a second operations but, softwar a sense of dreat of appearations but, softwar a sense of dreat of a postular and a statement on the color and falsons.

We about making children at achoof firel good cloud augmenting, seen Aut Wilson. No don't just talk at a shoul assemblen. No get children of all ages lanshod in the day-to-day experience of engineering by taking softh as into wheels had here. Night-shellitty pakets and gregglen. De younger owns how &:

The precess that's young and continues right through to operating something maderic and princepts.

Salar Manifell has an antisomite link with road socializing physic and total schools at 9. Allians and social territor solid in Horts. Feds and Nicell Landon. They are all cleaned by the Constant Records Boston.

Some gapth from reflects in the area also obtain their work expectation with Euler Marcoll Marcoll Stein flow are in 6 to 15 years skill Some maters for herbit experience, and Ast William particularly results or pupil how Michiel Constean United, some Third Hose NA Alberts, following agr a smalls work reporteer of ago 15 with a further han work of the best on 15 with 5 and the new way when he was 16.



Convedited to introducing software abditions to anglessating and Militare of

That Ind." says Are Wilson, was emprosely plaining to be a Engoin. He came has translated confing single-energy with Jonato at Starthad Desirably. He was a apressent by Fahar Manmell in that yours, with guaranteed national experience and now has a first-clean agent in read-animal engineering with Tennis.

The work requirement that father Massell gibes to which pupils in practical and waiters. For his first work, he pupil stars. Historic Guttans School worked in thermal smalling, misming heat gains and leaves using a surrogater program. The theory of Doubland was replaced, and he experimented with some ions tracked and a proper program of the property of the section of the program of the programment of the section studies are given to the programment of the section related as the programment of the section related to the programment of the p

That nacestal week was followed by a forther hare seeks countring the offices of clmers shough — to particular stong sexpentures. He creaklesed the URCIF (LTs Climete Septich Programmi servation for 2026, 2020 and 2086.

halading a gap year before he carmed any numbs, that persons has now had looks with falso blassood for ever arrow years.

The issue-importance programme introduces foliar foliances for some maily promising pergic," says Ast Wilson, and they build up an memory is the company before they as to unsenily, which is very boundered to one fature staffing meals.\*

The order practice spanners 40 students, he halling situation segmenting, and morninal

including structural singularities, and moralist mayord LD graduates this year. The mortganess of hands on superiors in taken and to achievin. As part of a series of rapids

response challenges, sie mid/ week wijdt selber pugelle and mere greekenken en greeken soch er halt cella, drattege mitel and for engineering. Hilly dass Art Hillen put we much elber and

Why does Are Wilson put so much effort an occurring only postering engineering a school?

I want there to been at least more that ongo memory in a good performen and describer. No cognition, the absorbatio find the disk and emitsals an a building memory context useful by had been at nationally in rever some. He was to context by the mod detectural engineering at a whost of articlesture. That context had a "railiting sorters at company, and he uncluded content offer two pt company, and he uncluded content offer two

Out in the adoubt, the approach is to make building several engineering relevant has a along hing at a project that purple them of, he are. In our new the Soupe constitutions desistance in Albies Expens is on confirm project to the san I has no relevant is not confirm to the control of artificial energy in secretarity.

Other subs to governing internal include on purer modelling, with a "In through" a builds and, discussing suntainable devolutional which is a big still to even grouple.

One your fluit fort billiam and his term for a addises is a tend pupils defining young from our justs that will make flows to pursue a cover is engineering.

Tuple taking single science at UCSE correstedy separate sciences in the earth force, or the new host or partners (or copyrates Auf Wilson, in wichers to get our demands to their wide beforting make that UCSE absents The shall force.

Within he has being leased receiving or 4th solvent to be a recombing experience. And Wilson: the encounters of absentation. If a multip lenger are the the count popular A level for one school was prophology, with all statement, and note about their resulting exotine to a large state home.

fater Manuell has had belo with wheals is many years, which were developed two a his mal humanical across periodge in part of a polify of humaning a mortificians compared

Hammer, test Nilson omnow that a comparduse test laine to be large to week with asless the himself started his involvement as a wingovernor with a potenty school.

He concludes. To improve the quality of any mans in building servaces, so to go it also the schools and catch proving rooms. The irres ment put in thy fisher Manmell critically prosed — but time benefits at a secular less it and at absorber.



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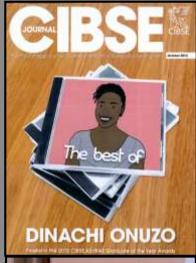
TO SECURE HEARING COMMENTS AND ADDRESS.

### **H&V / CIBSE Graduates Awards**











### **Judging H&V News Awards**





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building







The panel is comprised of: (front row, left to right) Peter Mayo, Ant Wilson, Nick Mead, (second row, left to right) Tony Amura,

# Top "GREEN GURUS" Building 2007



#### ANT WILSON

What he does. Over sustainability advice to clients to get projects through the maps of green planning regulations.

When this a degree in building services, has the environmental options and has been recking no things scanningle ever since. These days, he's involved with high prefile projects, including Frank Orbay's mixed use scheme in Brighton and the massive Land Securities development in Victoria.

He says clients recognise that green experts are crucial to securing planning permission. for large schemes, which is why his department has increased 50% alone last year.

One of the majo challenges abend, he says, is to make sore off-site modules can be recycled. "They have to be to respablic or see're just creating more problems."

Technology tipped for aucoess: Hydrogen fur cells, wave preser and biotechnology. Myth-exploded: There is a perception that, stolong a windmill or PV on your house moles it really green. That's presensesh."

#### One of CIBSE Most Influential Figures

24 influential figures



The influence of Arop is still strong two decados after his death. He founded his approymous consultancy in 1946 with the

dream of "achieving the perfect union of design and construction" and today it has 9000 staff in 92 offices across the globe.



ed Happold Professor Sir Edmund (Ted) Heppoid was an nnovator who combined creativity with discipline. Twelve years after his death.

he remains an inspiration of the consultancy he founded. Buro Happold, and throughbut the building services sector.



ovid Gottfried. The HVAC engineer ucred property developer turned 'green guns' founded the US Green Buildien Council in 1993 and

later the World Green Building Council. He has ready a substantial impact across the world, including China.



openn Desa Worked with Bill Durnster on the BedZED eco-village and has also advised

industry. Appointed OBE for services to sustainable development in 2004, his projects have included. reviving Landon's lavender-growing trade.



Sir Michael Latham The Lathum Report on construction in 1994 described the industry as 'Ineffective, adversarial and incapeble of delivering for

its customers". Not surprisingly, it prompted widespread reform. Today he chairs ConstructionSkills, the sector skills council

and is an influential and informative engineer ing historian. He is an expert on topics including sir quality and energy efficient ventilation systems. He was president of REHVA, the Federation of European HVAC Associations. Nom 1975 to 1979.

#### Peter Warburton

The Anus mun was lead MEF dissigner on the Gateway 2 project for Wiggirs Teape in Boungstoke. The seminal building, completed in 1983, provided a naturally ventilated workspace for 500 office staff thanks to a central. top-lit atrium which acted as a natural chimney. Wartsurton has worked to spread best practice. speaking at initiatives such as a liminit Stanitems institution conferency in China and the Visitivite of Physics energy management group.

#### Ken Yeang

The Malaysian-Born architect is renowned for his work with high-rise buildings that are constructed and developed with special consideration for the ecological impact they will have. Years was the co-founder of the TR Hampah & Young practice based in Halaysia, and is a director of London-based architect and planner Dewelyn Diwles Yeang, which has projects. in Kazakhstan, Uzbekistan and Canada on its books as well as Great Ormand Street haspital. te London His latest book is EcoSkyscrapers.



#### Ant Wilson

OBSE awanted its silver medal to Wison in recognition of his 30-year contribution to engineering. He leads Father Meancall's applied research group and his interests include the environmental performance of facades, renewable energy technology and dynamic thermal simulation. Many students have benefited from his lectures, including those at Cambridge and Loughborough.

#### Robert Higgs

Higgs, chief executive of the Heating and Versilating Contractors' Association since 2989. has been instrumental in shaping UK policy on

#### Sir John Egan The influential industrialist was picked by the then deputy prime minister Julia Prescott to conduct a review of the skills and training required by built environment professionals to produce systainable communities. The Egun Review, published in 2004, highlighted the need to change the "behaviour, attitude and knowledge of everyone involved". Formarly with Jaguar and the British Airports. Authority, Egon has been chairman of Severy Trent Water since 2005.



Ant Wilson, head of sustainable development at Faber Maunsell, tells HVR editor Paul Braithwaite why he loves his job so much

ANT Witten is a mediet man, He I talk hastern visiting uses cathol here was of the host-known permalant in the building serv-

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Faher Mansouli is very much at the cents of the government's minking on much of the storpy. BOLE and government efficiency legislation, being Regulations and bostony planning alle to the statutalities."

to understand them, picking he adulturs when it come to policy and offerth everyone that for all making leaving this to colleague Store leving but he is the one who n our these marring the trainers.

"It is a case of groung the approposts propin amond the table. Energone there have a point to

make-unit as Greenpears or the World Widdle Fund, which have strong coremomental views, along sale leations budge such a FETA

Then the fire more.

What we have so end up with parts X and P of the Dutling is a constant which is the accept-

And he higge when he says that Whose admire he is often on the - often the communiciplement so one that it you him and Paper Macroill at the events.

He leves his job, as business and discour. Somirable Development Group. Frees single facet of it. Fabre Manuell is an interna-

### CIBSE Silver Medal – July 2007



#### **Praise From H&V News 2008**



#### Ant Tops Most Influential List

25 June 2008 | Author: Paul Collins

Faber Maunsell's Ant Wilson has been named the UK's journal Heating and Ventilation (H&V) News.

Already a well known and much respected figure within building services, who have influence on the legislation



A statement from H& probably the industry applied research group group promoting low

The award is the sec awarded the prestigi Services Engineers) f

Ant said: "To be cons and chief executives real surprise.

"However, the honou have all worked very

# **ACE, CIBSE and IMechE Awards**



# With CIBSE in Hong Kong in 2009



# Targetzero - All Five Reports



A**E**COM

### **AECOM Fellows 2011**

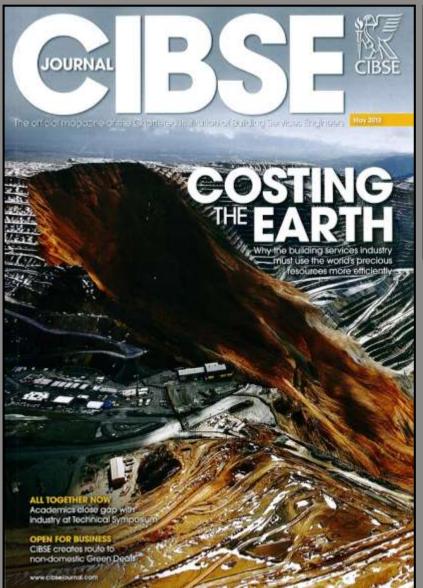


People, Places & Projects

Page 61



# Doing More With Less - CJ May 2013





**How Sustainable Is Our Design?** 



towards... towards...

Ant Wilson

Director/AECOM Fellow

**Building Engineering** 

A=COM





towards...

steps

A=COM

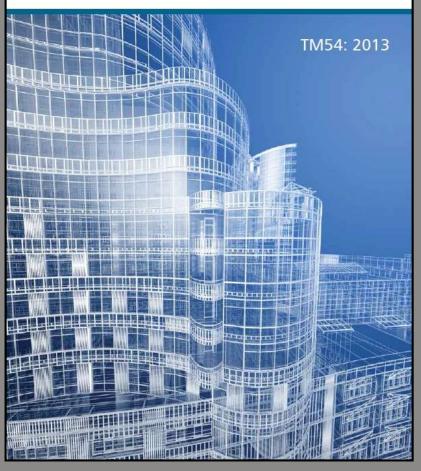
towards...

27th October 2014

#### CIBSE TM54 & TM56

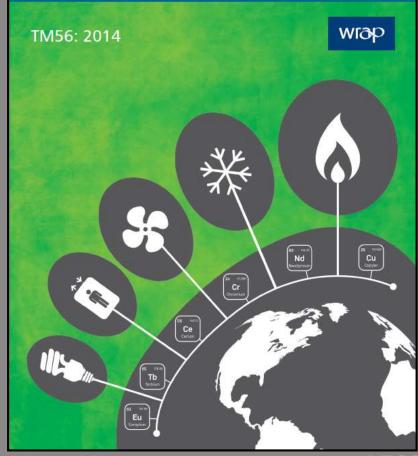
Evaluating operational energy performance of buildings at the design stage





Resource efficiency of building services





#### BCO Guides 2009, 2011 & 2014



# **Qatar Green Building Conference**



## Nottingham Zero Carbon Lab (GSK)



### Zero Carbon Lab at Nottingham







WINNER AECOM – GlaxoSmithKline's carbon-neutral laboratory for sustainable chemistry, University of Nottingham



be building sets a new higher
benchmark for renewable design
in laboratories. It is the first zero
carbon laboratory in the UK and
is believed to be the first chemistry
lab to achieve combined BREEAM
Outstanding and LEED Platinum accreditation.

Renewable energy is generated by photovoltaic (PV) cells, a biofuel combined heat and power unit and biofuel beiler. The power and heat exported by these are sufficient to offset the carbon embodied in the construction of the building.

The PV is incorporated into the roof structure as well as the rooflights into the building's winter garden to allow light in while still generating power.

A biofisel CHP is used to provide heat and power with minimal carbon emissions. Additional heat is provided by a biofisel boiler, with the target of all heat generation being low-carbon. LTHW connections are provided to adjacent buildings to both maximise operation of the CHP and share the benefits of its low-carbon heat. A biofuel CHP is used to provide heat and power with minimal carbon emissions

# Royal Academy of Engineering



The Royal Charter & Statutes

The Royal Academy of Engineering

ANTHONY P-WILSON-FELLOW

ON THE FOURTEENTH DAY OF JULY 2015



Am Dod 3

President

Pati Conunch

Chief Executive



### Press for the MBE was Amazing

#### 'Mr Building Services' made an MBE in New Year Honours

#### Ant Wilson rewarded for more than 30 years' service to the industry

The man memorably described as 'the most famous person in building services' [by former CIBSE President George Adams] has been made an MBE in the New Year's Honours List.

Ant Wilson, director of sustainability and advanced design at Aecom, has been rewarded for services to building and engineering.

A CIBSE Fellow and Silver Medallist, Wilson has been a key figure in the sector for more than three decades. He has contributed extensively to the institution's work in building modelling, façade engineering, lighting, carbon reduction and energy certification. He was an adviser to the government on Building Regulations for many years, and was awarded Fellowship of the Royal Academy of Engineering in 2015.

Wilson was a member of CIBSE Council from 2003-2009 and served on the CIBSE Carbon Task Force. He was also a founding member of the Society of Façade Engineering, is a Fellow of the Society of Light and Lighting, and currently serves on the CIBSE Certification Advisory Group and on the CIBSE Knowledge Programme sub-committee.

A former winner of the ACE Engineering Ambassadors award and the Institute of Mechanical Engineers award for promotion of construction and building services, Wilson has also served his local church in Dunstable for more than 30 years.

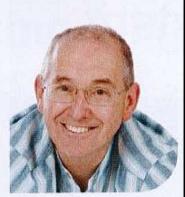
'CIBSE offers its warmest congratulations to Ant Wilson, who has made outstanding contributions to the engineering industry, and has been an exemplary voluntary contributor to CIBSE and wider society for more than 30 years,' said CIBSE President John Field.

'This latest honour is a richly deserved recognition of the impact he has had on a vital industry for the UK economy and society as a whole, and the difference he has made through tirelessly giving his time and energy to ensure that it continuously improves.'



#### **MBE for Ant Wilson**

Ant Wilson, director for sustainability and advanced design at multidisciplinary consultancy AECOM, and perhaps one of the best-known figures in the building-services industry, has been awarded an MBE in the New Year's Honours List. He has worked for many years promoting and advancing engineering and sustainability. This includes being a STEMNET ambassador since 2002, which sees him making regular presentations in schools to promote STEM (science, technology,





#### A Big Thank You to BSRIA



# NEWS

#### BSRIA Council member. Ant Wilson awarded MBE

BSRIA council member, Ant Wilson, Director - Sustainability & Advanced Design - Building Engineering at AECOM, was awarded an MBE in the New Year's Honours' List.

Ant Wilson is recognised as one of the UK's most influential building service engineers and works tirelessly in the promotion and advancement of Engineering and Sustainability. This includes becoming a STEMNET Ambassador (2002 - present) which sees him undertaking regular presentations in schools to promote STEM (science, technology, engineering and maths) subjects and in particular engineering as a viable long term career option, changing the perception of the built environment engineering from the traditional construction industry and aligning it to the reduction of both energy consumption and carbon usage.

In addition, Ant has been a member of the Building Services Research and Information (BSRIA) governance council since 2001, providing industry insight that allows BSRIA to take a leading position in the development and implementation of best practise for the industry.

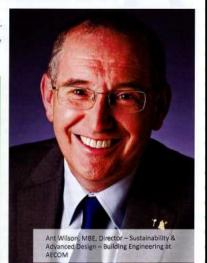
#### Google's new £600m HQ in London

Lendlease is set to scoop a £600m deal to build Google's new HQ in London. Bids were submitted in November 2016, with Mace, Multiplex and Sir Robert McAlpine also tabling bids. The construction value for the project is £400m for the shell and £200m for the fit out. Currently Google are based in multiple sites in London, the new building will allow for all the staff to be brought together under one roof

Source: Construction News

He has, as well as contributing to BSRIA and his work with STEMNET, worked with similar organisations within the engineering industry, receiving an unprecedented level of industry recognition for his contribution and these include: Fellowships of both the Royal Academy of Engineering and the Chartered Institute of Building Service Engineers (CIBSE). He was the first winner of ACE Engineering Ambassadors award in 2008 and awarded a CIBSE silver medal in 2007 for his contribution. In 2010 he was awarded the Institute of Mechanical Engineers award for promotion of construction and building services.

Source: BSRIA



24 DELTA T MARCH 20

#### **MBE Investiture at Buckingham Palace**

# Elyabett ?

# Elizabeth the Second, by the Grace of God of the United Hingdom of Great Britain and Northern Freland and of Her other Brakes and Tanibairo Cases, Hand of the Forman world?

other Realms and Territories Queen, Head of the Comminwealth, Defauter of the Faith and Severaga of the Most Excellent Ceder of the British Empire to Cur trusty and well beloved A**nthony Poter Wilson** Esquire

Greeting

Whereas We have thought fit to nominate and experint you to be an Ordinary Member of the Civil Division of Our said Most Excellent Creter of the British Engure

We do by these presents great unto you the Liguity of an Critimary Manubor of Cao said Criter and hereby authorise you to have hold and enjoy the said Lighty and Rash of an Critimary Member of Cao aforesaid Criter together with all and singular the privileges thereunto belonging or apportaining.

Gitten at Car Court at Saint James's under Our Sign Manual and the Soal of Car said Order this Thirty-first day of December 2016 in the Sixty-fifth year of Car Reign

By the Sovereign's Command.



Grand Master

Grant of the Zignity of an Ordinary Member of the Civil Licision of the Order of the Bestish Empire to Anthony Pater Wilson, Esq.







#### BESA Gold Award at H&Vnews Awards 2017



Spansored t



#### BESA Gold Award

WINNER Ant Wilson MBE



It is hard to think of anyone who has done more to promote building and environmental engineering to future generations

he recipient of this year's H&V
News Gold Award, sponsored by
BESA and given for exceptional
contribution to the industry,
was once described as "the most
famous person in building services"
by former CIBSE president George Adams.
Ant Wilson is possibly the closest thing we have
to a 'national treasure' in the sector and his selfless
contribution to enhancing the world of building
and engineering was recognised by an even higher

A graduate in Building Environmental Engineering from the University of Bath, Mr Wilson joined Oscar Fuber as a software engineer in 1979 and rose to the ranks to become a director of the main group company when it became Fuber Maunsell in 2001, Today the company is part of AECOM—one of the largest engineering and

authority than H&V News - when he was made

for services to building and engineering.

an MBE in the Queen's 2017 New Year's Honours

building modelling, façade engineering, lighting, carbon reduction and energy certification. He was an advisor to the government on the Building Regulations for many years, and was awarded Fellowship of the Royal Academy of Engineering in 2015.

He was a founding member of the Society of Façade Engineering; is a Fellow of the Society of Light and Lighting; and has worked closely with the Building Engineering Services Association (BESA) as an expert speaker, particularly on the Building Regulations.

In his career he has been recognised with awards from the Association of Consulting Higineers and the Institution of Mechanical Engineers. He was also named by H&V News in 2008 as "the most influential person in building services".

However, as well as being an outstanding engineer, Mr Wilson believes that what we do should contribute to creating a better society. He



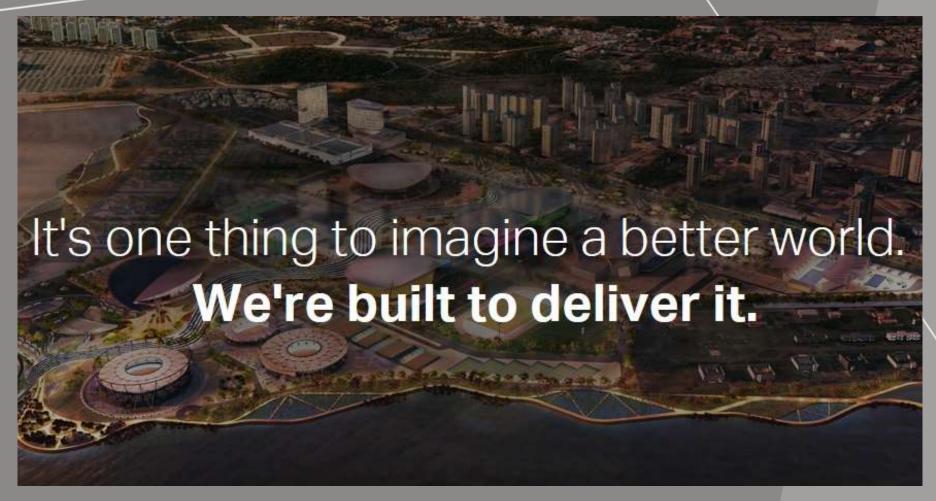
#### **Presentations and Innovation**



# **Family Still Support Me**



# THANK-YOU FOR LISTENING





Built to deliver a better world

# **Future Thinking With Daikin**

