

# CURRICULUM VITÆ



**NAME** Eur Ing **ANDREW R WILKES**  
*BSc CEng MIET MEI MCIBSE MSLI ACI Arb FInstD*

**DATE OF BIRTH** 4th March 1949

**NATIONALITY** British

**PROFESSIONAL AND  
ACADEMIC  
QUALIFICATIONS**

Bachelor of Science  
European Engineer  
Chartered Engineer  
Member of the Institution of Engineering and Technology  
Member of the Energy Institute  
Member of the Chartered Institution of Building Services Engineers  
Associate of the Chartered Institute of Arbitrators  
Fellow of the Institute of Directors  
Member of the Society of Façade Engineers  
Member of the Architectural Association

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MECHANISMS**

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**CURRENT ACTIVITY**

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Andrew Wilkes is in the vanguard of a new breed of Consultant specialising in the design of advanced buildings and dwelling places for people. He is a Partner of Andrew Wilkes Management specialising in Sustainability and Workplace Engineering; a partner of Elias Topping Wilkes providing the Project Management to advanced sustainability projects; and, a founding member of a Virtual Consultancy with offices throughout the UK and Europe.

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As part of sustainability and ecology initiatives currently underway throughout the world, Andrew Wilkes has been leading a new approach to workplace design and creation. The realisation that environment and surroundings affects workplace productivity and fiscal corporate performance is now determining radical accommodation strategies that are based upon new concepts in working methodology. The amalgam of work patterns that bring improved lifestyle quality to people whilst reducing the environmental burden of travel and energy use has allowed building designs which support advanced sustainability initiatives.

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Andrew Wilkes has been an occasional Lecturer at the European Centre for Management in Brussels and currently at the Universities of Cambridge and Reading as well as the Birmingham School of Architecture; a past Lecturer at the University of Bath, School of Architecture; and, a past Lecturer in Building Engineering at University of the South Bank. He has also presented papers at Conferences, Seminars and Professional Institution meetings together with writing books, articles in journals and other printed documents.

The current range of services include:

[WorkPlace Engineering - Virtual Engineering \[CFD-VE\] - Sustainable Development](#)  
[Façade Engineering - Environmental Impact Assessment - Cost Planning](#)  
[Expert Witness - Forensic Engineering](#)

## Milestones from the portfolio:

1990 - chosen by 3M to be the Workplace Engineer for their new 500,000sq ft UK Headquarters.

1991 - after an international competition, selected by HSBC Laiki Bank to be their International Consultant advising upon all aspects of Environmental Responsibility. The Headquarters buildings on the outskirts of Nicosia is an outstanding example of co-operative working with advanced workplace concepts integrated into a truly outstanding landmark building.

1992 - selected by Royal National Institute for the Visually Handicapped to be the Workplace Engineer for a refurbishment of the Queens Building in Hereford. The resulting work realised a low-energy solution without air conditioning and well within the budgetary expectations of the College Governors.

1993 - chosen by the City of Birmingham Symphony Orchestra to be the Workplace Engineer for their new Rehearsal Hall and Administrative Centre. Stack Effect, Displacement Ventilation proved to be a highly successful, low energy, thermal comfort solution.

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1994 - appointed by CWC Mercury Communications to re-direct its' Facilities and Property portfolio and to create an Advanced Accommodation Strategy. New concepts for accommodation and flexible working were created with Location Independent Working introduced to the 11,500 staff. This non-territorial approach to office provision led the desired breakthrough in increased Corporate Efficiency; lowering energy utilisation; and, reducing occupancy costs by almost 15%.

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1995 - commissioned by 3M Europe to lead the European Facilities Group in creating a Mission Statement for support of the Core Business Imperatives. This Strategy was adopted by 3M throughout Europe and also taken back to the US for implementation world-wide.

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1996 - selected by Argent to create an Environmental Responsibility Strategy for the Brindleyplace urban regeneration office development in Birmingham, UK. This Strategy became the bedrock of approach for attracting tenants to the buildings demonstrating a detailed understanding of their business drivers and needs.

1997 - appointed by ITNet to formulate an Accommodation Strategy for their expanding outsourcing activities. The strategy included a revolutionary workstation design using hexa-configuration desking and Localised Air Filtration without the need for air-conditioning. The solution resulted in higher occupational densities and lower absenteeism and operating costs.

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1998 - chosen by CCT-E to create new working conditions and accommodation layout for their new Office HQ that would improve their employees' performance. CCT-E advises small and medium-sized companies [SME's] upon their business development and operating efficiency.

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2000 - appointed by the UK Government as part of the PFI Team to advise upon the Workplace Engineering aspects of the new £340m GCHQ Building in Cheltenham, UK. Fundamental work on underfloor air delivery, Façade Engineering and CFD computer analysis has been undertaken to create a low energy environment that maximises office productivity.

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2001 - selected by the Audit Commission to develop a new Accommodation Strategy for their portfolio throughout the UK. A pilot 20,000sq ft refurbishment for their Central Region HQ is a leading-edge solution responding to the Human Resources issues whilst dramatically responding to the UK Government's sustainability agenda. This project was a 2003 BCO Award Winner.

2002 - commissioned to undertake the Environmental Impact Assessment for a 350,000ft<sup>2</sup> Warehouse, Distribution and Office facility in a sensitive location creating a Regional Distribution Centre for Comet. Services included low-energy lighting solutions; zero-energy heating concepts; SUDS water management; and, the Environmental Impact Assessment Report for Planning.

2003 - Sustainability Consultant for the Eco Park, Ludlow intended to be adventurous, adopting a lateral thought approach to construction and materials, all based upon a timescale of forward thinking limited to, but not restrained by, 'Best Practice with Known Technology'. The scheme achieved a BREEAM "Excellent" standard.

2003 - Andrew Wilkes Management had been previously selected by the Commission to assist with the creation and delivery of a national Accommodation Strategy. After a pilot fitout of 1,750m<sup>2</sup> at Solihull [a BCO 2003 Award Winner], the Firm was appointed to design and put into practice the new working arrangements incorporating workplace improvements at a 5,500m<sup>2</sup> facility within the Audit Commission Millbank Tower complex. The leading edge installations included a web-enabled, LONWorks control system; a lighting solution using only 6w/m<sup>2</sup>; an Active Chilled Beam system using 3l/s/m<sup>2</sup> that reduced the energy costs to 40% of that previously used; and, Localised Air Filtration [LAF] through the desks giving personal control to all users - improved productivity.

2004 - appointed by the [Bank of Ireland](#) to be the Sustainability Consultant for their new Headquarters Building in Dublin.

2005 - commissioned by [Carphone Warehouse](#) to advise upon all aspects of Sustainability and low Ecological Impact for the refurbishment of a 400,000ft<sup>2</sup> former cotton mill. In addition to CFD Analysis and Computer Modelling of the accommodation, a ultra-low energy heating and ventilation concept developed in conjunction with the BP Institute at Cambridge University, obviated the need for electro-mechanical air conditioning.

2006 - selected to be the M&E and Sustainability Consultant for a new Learning Centre at the [QAC](#) in Birmingham. Hydrobath Modelling created a thermal comfort strategy that significantly minimised energy use.

2006 - appointed by [Parkridge Holdings](#) to create a sustainability strategy for their world-wide masterplanning and development activities.

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2006 - Sustainability Consultant and Workplace Engineer for [Newhall Square](#) - a £65M redevelopment of the former site of the Science Museum in the centre of Birmingham that includes: 236 residential units, 70,000sq.ft office space, retail, arts/exhibition space and a 90-bedroom hotel. The scheme includes the retention and inclusion of three existing buildings/structures where electroplating was pioneered in the UK.

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2007 - appointed by [Severn Trent PLC](#) to be the Workplace Engineer and Sustainability Consultant preparing the written Masterplan and Accommodation Brief and then advising on the Design, Procurement and Occupation of a 170,00ft<sup>2</sup> Operations Centre. This facility will create increased productivity, lower occupational costs and minimum Carbon emissions. The Sustainability credentials of the building will be class leading for its type leading to BREEAM 2008 'Outstanding'. The inclusion of Renewable Technologies such as Trigeneration CHP, Biomass, Ground-coupled thermal storage, Photovoltaics and Solar Water all contributes to a predicted EPC 'A' Rating.

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2007 - selected by Spenhill and Gateshead Metropolitan Borough Council to be the Sustainability Consultant for the £105M [Trinity Square Town Centre Redevelopment in Gateshead](#). Facilities include Supermarket & Retail; cafés, bars and restaurants; 700 parking spaces; 1,000-bedroom student village with management and social facilities; offices & 110 bed hotel; and, a vibrant town square for the community to enjoy.

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2008 - Workplace Engineering Consultant for the £20M [Swanwick Marina redevelopment, on the Hamble](#).

2008 - Workplace Engineering and Sustainability Consultant for the £5.5M [Naomi House Children's Hospice](#).

2008 - Engineering and Sustainability Consultant appointed by the [UK Government](#) to advise upon a new £500M science related facility critical to national security.

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2009 - Workplace Engineering and Sustainability Consultant for the redevelopment of 'New Road' the quintessentially English home of the [Worcestershire County Cricket Club](#). The new facilities include Players and Members Pavilion with a new Hotel and further Hospitality Facilities.

2009 - Workplace Engineering and Sustainability Consultant for the £1M refurbishment of the [Swan Theatre](#) in Worcester. The analysis of the auditorium showed that a novel, zero-carbon Thermal Comfort solution - E-Stack could be utilised, a concept evolved by AWM in conjunction with Cambridge University.

2010 - Consultant for £13M new Research Laboratories at [University of Leicester](#).

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The combination of:

- Sustainability and Ecologically Benign Concepts
- Façade Engineering
- Use of the Building Fabric as an Environmental Moderator
- Health and Human Factors Considerations
- Personal Influence Workstations
- Low Energy Thermal Comfort Provision
- Location Independent Working and Flexible Working Patterns

.....all lead to the creation of an Environmentally Responsible society.

As Clients concentrate upon their core businesses, the initiatives expounded by Andrew Wilkes are allowing those organisations to develop forward at the pace their business imperatives demand. Meanwhile, Andrew Wilkes is still researching new ideas and expounding the unthinkable in Papers presented around the world.