

Appendix A: Innovation Timeline

whitbybird awards

**2005 to date**  
 NCE Awards 2005, Consultants of the year - Medium size firm  
 Civic Trust Awards 2005, commendations - Haulieu School, Centenary Building  
 National Homebuilder Design Award 2005, Best Landscaped Development - Chelsea Bridge Wharf  
 RIBA Awards 2005, regional - Mousbourne Community Academy, Fitzwilliam College gatehouse and auditorium, HQ of the Cambridge Federation of Women's Institutes  
 Royal Fine Art Commission Trust, Specialist Award 2005 - Faculty of English, University of Cambridge  
 Royal Institute of Chartered Surveyors Awards 2005, eastern region, community benefit and Building of the Year - The Forum  
 Royal Institute of Chartered Surveyors Award 2005, regional high commendation (sustainability) - ZICER  
 Sustrans National Cycle Network Award for Excellence, construction & design - bridges & underpasses - Millennium Bridge, Lancaster

**2004**  
 Design and Art Direction Awards 2004, Environmental Design and Architecture: design for industry, transport and the workplace - 85 Southwark Street  
 Stainless Steel Awards 2004, runner-up - WorldCom staircase  
 Manchester Civic Society Award, Shop Window Award, winner - Bank Chambers, Portland Street, Manchester  
 RIBA Award - Client Awards - Institute of Arable Crop Research  
 RIBA Award - Architecture for Business Awards - Institute of Arable Crop Research  
 RIBA Award - Spirit of Ingenuity Awards, runner-up - Institute of Arable Crop Research  
 RIBA Awards 2004, regional - Institute of Arable Crop Research  
 BCIA Awards 2004 - Raines Court - Best Practice category  
 European Association for Renewable Energies (EUROSOLAR) - The Zuckerman Institute for Connective Environmental Research (ZICER)  
 BCO Awards regional - 85 Southwark Street - Corporate, Bass Warehouse, Eastgate - Refurbished workplace  
 BCO Awards national - 85 Southwark Street - Corporate  
 Jersey Design Awards 2004 - Haulieu School, Commended - Large Scale Development  
 RIBA Awards 2004 - The Forum Norwich, Norwich Catering Centre  
 Civic Trust Awards 2004 - Allies & Morrison offices, Laban Centre, Homiman Museum extension, The Box Works  
 Civic Trust Awards 2004, Commendations - Lakeshore, Cass Business School (services), Coventry footbridge and arch(The Phoenix Initiative)  
 RIFAC Building of the Year 2004, offices - Allies & Morrison offices  
 RIBA Awards 2004, regional - Allies & Morrison offices, White Arch and Glass Bridge, The Forum, Homiman Museum extension, Raines Dairy, Pen Green Centre  
 Royal Institution of Chartered Surveyors Award 2004, Community Benefit - Bolton Sports Centre  
 Structural Steel Design Awards 2004, commendations - Festival Place, White Arch and Glass Bridge

**2003**  
 Leisure Property Awards 2003, Best Leisure Regeneration, Small Projects - Brighton Dome, Museum & Corn Exchange  
 Retail Property Awards 2003, Best Major New Shopping Centre or Refurbishment - Festival Place, Basingstoke  
 Daily Telegraph Homebuilding Awards overall winner - 6 Stamford Brook Road  
 Brick Awards 2003, Best Craftsmanship + runner up, Best Use of Structural Brick - 20-32 Baker Street  
 RIBA Building of the Year 2003 - The Slinging Prize - Laban Centre  
 National Association of Shopfitters, Design Partnership Awards 2003, Best UK fit-out and best integration of design with concept (Structures and M&E) - De Beers fit-out  
 Design & Art Direction Awards 2003, Environmental Design & Architecture: design for the workplace - Bloomberg HQ refurbishment  
 Structural Steel Awards 2003, commendation - Brighton Dome, 25 Gresham Street  
 Royal Fine Arts Commission Trust & Sky 'Building of the Year 2003' - Laban Dance Centre  
 Bentley Systems Success Award 2003, Building/Commercial Institution category - BBC W1 Project  
 RIBA Awards 2003, East Region - Shanks Millennium Bridge  
 RIBA Awards 2003, London - 30 Finsbury Square, BedZed, Laban Centre  
 RIBA Awards 2003, North & North West - Baworks, Chorlton Park housing  
 RIBA Awards 2003, South & South East - Chipping Norton Sports Centre  
 RIBA Awards 2003, South West & Wessex - Oxstalls Campus, University of Gloucestershire  
 Civic Trust Awards 2003, Urban Design Award - The Forum  
 Civic Trust Awards 2003, Sustainability Award - Oxstalls Campus  
 Civic Trust Awards 2003 - Aston Martin Owners Club, Said Business School  
 Civic Trust Awards 2003, commendations - Brighton Museum & Art Gallery, Chipping Norton Leisure Centre, River Lune Millennium Bridge, York Millennium Bridge

**2002**  
 Southern Region Conservation Award 2002 - Winner - Aston Martin Owners Club  
 Downland Prize 2002, Commendation - Aston Martin Owners Club  
 The Footbridge Awards 2002, Shortlisted for Aesthetics - Grade Bridges, Reading  
 The Roses Design Awards 2002, Commendation for Best Regeneration Scheme - Box Works  
 The Roses Design Awards 2002, Best Residential Project - Chorlton Park Housing  
 Building Awards 2002, Finalist for Multi-Disciplinary Practice of the year  
 Downland Prize for Architects in RIBA South East and South Regions 2002 - Woodpeckers  
 The Civic Trust Awards 2002 - Edward Square, Hackney Community College Sports & Performing Arts Centre, Murray Grove  
 Concrete Society Awards 2002 - Said Business School, University of Oxford  
 Oxford Preservation Trust Award 2002 - Said Business School, University of Oxford  
 British Council for Offices Awards 2002, Regional Commercial Workplace Award - Phoenix Natural Gas, Belfast  
 British Council for Offices Awards 2002 - Best Fit-out of Workplace, Regional and National - Bloomberg HQ refurbishment  
 Building Services Award 2002 - Engineers taking the lead  
 ICE Award for Excellence in Concept, Design and Execution of Civil Engineering Work 2002 - York Millennium Bridge  
 Construct Award for Innovation and Best Practice London, SW1  
 Structural Steel Design Awards 2002, Commendation - Tattersalls Grandstand, Newbury Racecourse  
 RIBA Awards 2002, Southern Region - Said Business School, University of Oxford  
 RIBA Awards 2002, North-western Region - Wycliffe Visitor Centre, Lancashire

**2001**  
 The Institution of Structural Engineers Awards 2001 - Toyota (GB) plc Headquarters, Epsom  
 Concrete Society Awards 2001 - Toyota (GB) plc Headquarters, Epsom (Certificate of Excellence and Building of the Year), Faculty of Divinity (Certificate of Excellence)  
 2001 Leisure Property Awards, Winner Best Public Project - Cretkeme Aqua Centre  
 British Council for Offices Awards 2001, Best of the Best - Building of the Year - Ernon European Headquarters  
 British Council for Offices Awards 2001, commercial development, South East and National regions - Ernon European Headquarters  
 British Council for Offices Awards 2001, corporate headquarters commendation - Toyota (GB) plc Headquarters  
 BFM New Building of the Year 2001 - Toyota (GB) plc Headquarters  
 IAS/CAS Best Office Development on a Business Park - Reading International Business Park  
 RIBA Awards 2001, three regional awards - British Embassy, Berlin | Faculty of Divinity, Univ. of Cambridge | National Wildflower Centre  
 RIFAC / BSkyB Building of the Year 2001 - Shanks Millennium Bridge, Peterborough (Specialist Award, Bridges)  
 Structural Steel Design Awards 2001, commendation - Shanks Millennium Bridge, Peterborough  
 Civic Trust Awards 2001 - Electronic Arts Headquarters, Surrey | Wetlands Conservation Centre, Slimbridge  
 Civic Trust Awards 2001, commendations - Generator-Set Assembly Plant for Cummins Power Generation, Ramsgate  
 New Civil Engineer - Consultancy of the Year, 2001 - Runner up, medium firm

**2000**  
 New Civil Engineer - Consultancy of the Year, 2000  
 RIBA Awards 2000, Best Buildings - Murray Grove Housing, London | Milton Keynes Theatre & Gallery | Electronic Arts European HQ, Surrey  
 Structural Steel Design Awards 2000, innovation award - Murray Grove Flats, London  
 Civic Trust Awards 2000, contribution to the community - Sadler's Wells Theatre, London  
 Civic Trust Awards 2000, commendations - University of East London Docklands Campus | 10 Crown Place

**1999**  
 RIFAC / BSkyB Building of the Year 1999 - River and Rowing Museum, Henley-on-Thames  
 RIBA Award 1999, Arts and Leisure - River and Rowing Museum, Henley on Thames  
 RIBA Award 1999 - Rushton Medical Centre, Hoston  
 Civic Trust Awards 1999, Outstanding Building of the Year - River and Rowing Museum, Henley on Thames  
 Arts Council, Arts & Business Paving 1999 - WBP Sponsorship of Brighton Festival  
 British Council for Offices, Productive Building Use Award 1999 - 58 - 62 Newnam Street  
 CIBSE Journal, Building Services Up and Coming Consultancy of the Year 1999  
 The Masonry Society, Haller Award 1999 - Winton House, London E1

**1998**  
 BSCA Award 1998, Certificate of Merit - Winton House, London E1  
 AIA London/UK Chapter, Excellence in Design Award 1998 - River and Rowing Museum, Henley on Thames  
 British Construction Industry Award 1998, Highly Commended Building - PGI Cummins Factory, Kent  
 Design Council Millennium Product - Murray Grove Housing, London | Challenge of Materials Gallery, Science Museum | Merchants Bridge, Manchester | Solar Office, Dorford International Business Park  
 Civic Trust Awards 1998 - Hackney Community College, Shoreditch Campus | Heavers Farm School, South Nowood | Merchants Bridge, Manchester | St Savours Dock Bridge, Southwark  
 Civic Trust Award 1998, Commendations - Harvey Nichols, Leeds | Rushton Medical Centre  
 Education and Culture Award 1998 - Hackney Community College  
 RIBA Awards 1998 - Challenge of Materials Gallery, Science Museum | Highland Printmakers Gallery, Inverness | Hackney Community College, Shoreditch Campus | River and Rowing Museum, Henley-on-Thames, Information Technology Building, Goldsmiths College, University of London  
 RIBA Award 1998, Information Technology Building - Goldsmiths College, University of London

**1997**  
 RIFAC/BSkyB Building of the Year 1997 - Hereford Cathedral Library  
 The Concrete Society Award 1997 and The Carpenters Award 1997 - Hereford Cathedral Library  
 BBC Design Award 1997, Architecture and Environment - Chessington Citizens' Advice Bureau  
 British Construction Industry Award 1997 - St Savours Dock Bridge, Southwark  
 RIBA Awards 1997 - seven regional awards

3D MODELLING

Cummins Power Generation Factory

A demonstration of the capabilities of 3d model analysis. The client was able to choose from a 'shopping list' of 40 complete building designs that we had modelled in a 10 day period.

Toyota (GB) Ltd Headquarters

3d modelling of the complex geometries of the steelwork roof structures gave a 60% saving in the weight of the structure whilst delivering a vibrant aesthetic.

Juxon House

Significant cost and time savings achieved by employing a hybrid approach using 3d modelling and Computer Integrated Manufacturing of the cladding (CIMClad).

Tattersalls Grandstand

A whole stadium designed as a single 3d model, enabling the completion in 12 months of a project that would ordinarily have taken 18 months work.

Lord Cobham's Monument

Following damage, our energy principle calculations showed the viability of rebuilding the memorial entirely from stone using techniques that transformed our work in load-bearing facade engineering.

The Turner Contemporary

The ultimate project for an holistic approach to 3d modelling where all the engineering services are being delivered from one office.

The Hepworth Gallery

The ultimate project for an holistic approach to 3d modelling where all the engineering services are being delivered from one office.

LOAD BEARING FACADES

Winton House

The first ever use of a load-bearing brick facade in a lower block with re-use of the steel frame from the original 1960's construction.

40 Grosvenor Place

Unique use of pre-cast load bearing concrete cladding panels that mitigates against the use of perimeter columns and delivers highly flexible workplace environments.

27-30 Finsbury Square

The first commercial building of the modern era to use a load-bearing stone facade, requiring the development of unique bearings derived from our bridge design expertise

140 Aldersgate

Using a unique structural solution to facade engineering the stone-faced pre-cast concrete columns and facade elements display unparalleled detailing.

GEOTECHNICS

Juxon House

The first example of the re-use of existing piles in a large-scale commercial project on a site requiring complex remediation works.

Belgrave House

Pioneering use of techniques that model structural loads in an engineering solution that re-used old pilings and delivered a £500,000 project cost saving.

BBC W1 Project

A radical application of geotechnical engineering in a London Underground 'exclusion zone' has combated 'right of light issues' to enable delivery of an additional floor of accommodation.

OFF-SITE PRE-FABRICATION

Hopkins

Relocation and re-erection of Hopkins designed Patara system pre-fabricated modular building. Advantage was made of the system's flexibility in the creation of double height areas that emphasize the structure's inherent tightness.

Murray Grove

A project Partnering Contract PPC2000, aimed at maximizing efficient team collaboration at all stages of the project, was used in the second exploration by the Peabody Trust of a pre-fabricated development.

Raines Dairy

First British use for multi-storey permanent housing of prefabricated modules assembled as steel monocoques complete with insulation, wiring and kitchen and bathroom units.

Excel Hotel

The structure is a two-storey steel frame that incorporates massive, triple-thickness transfer beams at second floor level. Above are four storeys made entirely of prefabricated concrete units, containing 210 guest bedrooms.

TRIFORMA 3D MODELLING

Stowmarket Church Spire

Stainless steel yacht rigging rods were used to transfer the stressing loads down to a perimeter ring beam embedded in the walls, a technique that eventually informed our bridge and facade engineering techniques.

Shanks Millennium Bridge

It is a multi-span weathering steel box girder supported surfaced in concrete for equestrian use and for pedestrians a more friendly timber deck is laid on steel arms cantilevered off the girder.

River Po Footbridge, Turin

Widely acclaimed use of a groundbreaking Microstrata Triforma modelling sequence that has transformed the creative possibilities of trondal geometries and finite element structural analysis.

Bonington Hotel

We designed a post-tensioned flat slab structure on an 8.5m grid for ease and speed of construction. Flat soffits maximize internal vertical space within local restrictions and reinforced concrete core walls provide stability.

BRIDGES

Merchants Bridge

Our competition winning proposal took cutting-edge contemporary technology for bridge analysis, documentation and machine fabrication and combined them to create a unique form.

Challenge of Materials footbridge

Celebrating the structural properties of steel and glass, the deck is formed from vertically laminated annealed glass - the first time the material has been used in this way.

Millennium Bridge, York

The new bridge at York with its single inclined stainless steel arch pioneers a new form of structure that exploits high strength materials and tests the limits of contemporary technology.

Millennium Bridge, Lancaster

The twin masted cable stayed structure takes advantage of better ground conditions on the south side of the river and evokes images of the tall ships that occupied the quay in the 17th and 18th centuries.

SUSTAINABILITY AWARD

Centre for Engineering Excellence (CEE)

Following an assessment of site wide renewable energy opportunities we designed 100 kwp of photovoltaics and successfully secured £37,000 from the DTI to fund the array.

SUSTAINABILITY

Alexander Stadium Training Centre

Our feasibility study showed that solar energy could be used to supply all the electrical power needed by the centre, avoiding 32 tons of CO<sub>2</sub> emissions per year and keeping running costs low.

Resurgence project

Co-ordination of a 5-country EC-funded project to promote sustainable development in social housing. We played a major part in the realisation of the European project as a demonstration of integrated solar regeneration.

Pan Village Masterplan

A local authority project on the site of Wight that could provide a new blueprint for the development of healthy and sustainable small economies through our research into integrated environmental design.

Element Energy

Our building physics group pioneered the integration of photovoltaics into building projects, securing DTI and European funding for several projects.

Sharjah Tower

Post-tensioned band beams used to compress floor slabs producing a structure with sufficient strength to meet the requirement for column-free space at all levels.

Mixed Use Development

Our geotechnical experts have been able to reduce the load on the pile and raft foundation and hence produce the most efficient design for this development resulting in considerable cost saving.