

# waterman

## times

### HIGHLIGHTS

#### FOCUS ON IRELAND

Interview with Paul O'Connell, Managing Director  
of Waterman's Irish business

#### AWARD WINNING FASTRACK SCHEME

Transportation excellence recognised at the 2008  
ACE Engineering Excellence Awards

#### ENVIRONMENTAL

New company formed incorporating  
Waterman Environmental, Waterman CPM and  
Waterman Sustainable Energy

# 125 OLD BROAD STREET

## ONE OF THREE EXCITING PROJECT COMPLETIONS



## welcome

This issue of Waterman Times coincides with the 20th anniversary since Waterman was floated on the London Stock Exchange in 1988. We highlight this significant event in the history of the company by looking at Waterman's past, present and future within this edition.

Over the past year Waterman has expanded by an outstanding 31% and now employs over 2,100 consultants and support staff worldwide. Our international work has increased and fees generated outside of the UK now make up 32% of the Group's turnover. In the last 24 months we have established new offices in Abu Dhabi - UAE, Brisbane - Australia, Tianjin - China and Almaty - Kazakhstan, as well as opening our first office in India this September.

This increase in international work has provided many of our UK based employees with the opportunity to experience new cultures and to work on some of the most exciting and unusual projects in the world.

I am very pleased that our reputation for engineering excellence continues to grow and is now being recognised by the increasing number of awards won by Waterman for its design work. These form an essential ingredient for gaining new commissions and securing the future growth of the business.

Three significant Waterman-designed, mixed-use urban regeneration town centre developments have been successfully completed and opened this year, to universal acclaim. In May, Her Majesty The Queen and His Royal Highness The Duke of Edinburgh, toured the Liverpool One development before the opening of the first phase, which was followed by the grand launch of the entire scheme last month. Also this year our town centre projects Highcross in Leicester and Cabot Circus in Bristol were opened. The visitors to all three developments during the first week of trading far exceeded expectations.

As Waterman continues to grow, communication with all of our stakeholders remains a priority and I sincerely hope that you will enjoy reading this edition of the Waterman Times and join us in looking forward to the next 20 years.

Regards

Nick Taylor  
Chief Executive

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Waterman has provided consultancy services on 3 major projects, all of which have been completed in the last 3 months.

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# brief news



## renewable energy conference

Waterman attended the Renewable Energy World Conference in Las Vegas earlier this year. The conference was part of a UK trade mission to the USA. The delegation was met by the Lieutenant Governor of California, John Garamendi. Waterman's Joe Morris and Simon Burton gave presentations on sustainability and met with the Lieutenant Governor and Michael Rosenfeld, the Los Angeles Vice Consul. Waterman was partly funded by the UKTI to attend and present at the event.

## steetley masterplan

In July Waterman attended the Laing O'Rourke public exhibition for the Steetley Masterplan. Steetley is Laing O'Rourke's new advanced pre-cast concrete manufacturing facility in Worksop. The plant is expected to be fully operational from January 2010 and Waterman is providing structural engineering, environmental and building services consultancy.



Henry Lang speaks to visitors at the Steetley exhibition

## cpd accreditation

Waterman Boreham has been awarded Engineers Ireland CPD Accreditation. This accreditation sets out a clear strategy for individual and company staff development and is designed to support lifelong learning. It also recognises good organisational practice in the areas of professional development for engineers, technical and administrative staff.

## new appointments

Jim Travers joins the team in Scotland as Operations Director for the region. Jim was previously at Thorburn Associates (acquired by URS in 1999) and is based in our Glasgow office.

Lorraine Bourke joins Waterman as Senior Building Energy Surveyor, with responsibility for producing Energy Performance and Display Energy Certificates. Lorraine is a qualified surveyor and domestic energy assessor and is based in our Harpenden office.

Matt Mehegan has been appointed as an Associate Director and will manage the waste resource development projects for the Environmental business within Waterman. Matt is based in our London office.

## board retirement

Alex Burton retired from the plc board on 30<sup>th</sup> June and has now taken on the role of Chairman of Waterman Energy Environment & Design and Head of the Sustainability Group.

## new office

During September this year, Waterman opened its first office in India. The new office, in Chennai, currently comprises a team of locally recruited engineers and technicians who will be supporting our global business.

## waterman times

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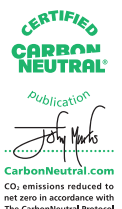
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Architects:  
Benoy  
Chapman Taylor

Cabot Circus Main Scheme

2 department stores  
15 large stores  
123 shop units  
242 residential units  
2,616 car parking spaces

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# major project completions

## cabot circus comes to town

After almost 10 years in the making Cabot Circus is set to transform Bristol City Centre, creating a new vibrant streetscape of retail and leisure facilities.

Waterman provided structural, civil and environmental engineering services for the £500m development by the Bristol Alliance (a partnership between Hammerson plc, Land Securities and Bristol City council). Cabot Circus is a two-part scheme offering retail space totalling 93,000m<sup>2</sup> and is one of the largest regeneration projects to hit the South West of England.

The Quakers Friar scheme includes refurbishment of the 13th century Friary Building, and the development of new retail units and an 18-storey residential tower, generally constructed with reinforced concrete on piled foundations. These foundations were designed and constructed to bridge archaeological remains of previous Friary buildings. With four floors of retail, Harvey Nichols provides the main store focus to this area.

The Main Scheme uses 11,000 tonnes of steelwork and comprises six individually designed retail buildings (with House of Fraser occupying the anchor store) over a site wide service yard, including plant space. Several of the retail buildings incorporate large clear span cantilevers of up to 6m in length, which proved to be structurally challenging.

The Main Scheme at Cabot Circus is also home to the largest glass roof constructed in the UK.

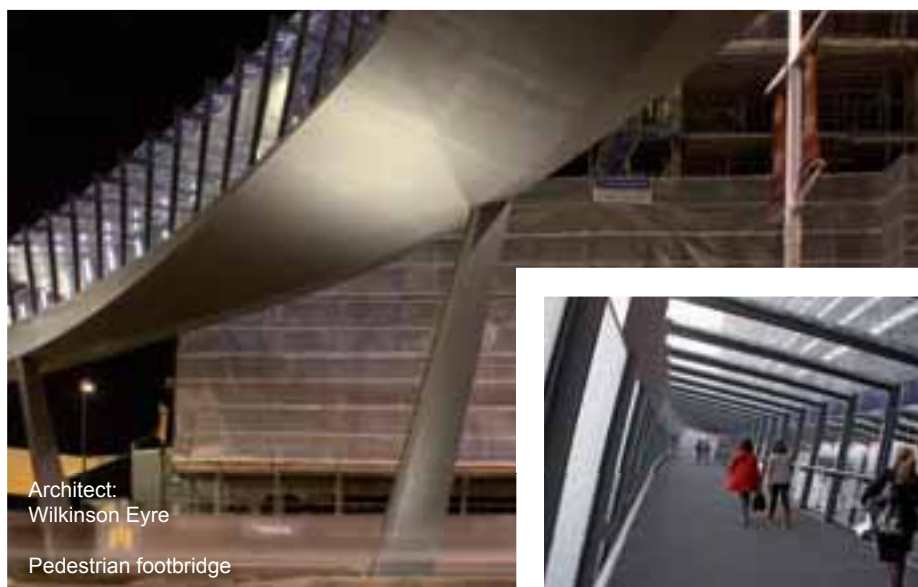
Another unique element of the development is the distinctive curved pedestrian bridge connecting the multi-storey car park to the main building. Designed in conjunction with architect Wilkinson Eyre, the footway is enclosed within a glass canopy with varying inclined and parallel roofing, soffit profiles and side cladding, which enhance the sweeping curve form as it passes over the main road.

The main structure comprises a fully welded variable steel box deck, the shaped steel box beam consisting of constant sloping web plates and two inclined soffit plates. The support columns are tapered, eccentrically

inclined and alternately reversed in direction to blend seamlessly with the deck structure and footway canopy.

Waterman's Divisional Director, Dr Ali Karbassi, headed up the bridge engineering team. Karbassi said: *"The main design challenge was posed by the need to achieve a continuous, virtually seamless external surface form with tapered inclined pier legs and a varying curved box girder deck. In achieving the desired results, we worked closely with the steel fabricator, SH Structures and their designer, to develop the components required to create the curvature of the footbridge."*

Cabot Circus opened its doors in September 2008.



Architect:  
Wilkinson Eyre

Pedestrian footbridge

# high turnout for highcross

In 2005 Waterman was appointed for civil and structural engineering, transportation and environmental consultancy services on Highcross, a major urban regeneration project for Leicester City Centre.

After substantial refurbishment and an additional 60,000m<sup>2</sup> of new retail, leisure, restaurant and residential accommodation on an adjacent 10 hectare site, Highcross opened its doors to the public in September this year as one of the UK's top ten regional shopping and leisure destinations. The opening day saw one in three residents of Leicester visit the development.

Developed in a 60:40 joint venture by Hammerson and Hermes, the £350m scheme has more than doubled the retail provision in the centre of Leicester.

Waterman provided structural engineering advice and design services resulting in the successful construction of the various buildings that make up this exciting development. In particular, the construction of the new mall at the interface with the existing centre where careful planning, phased demolition, construction, specialised design and build techniques were utilised to minimise disruption to an open shopping centre.

Waterman also offered structural advice and detailing for the refurbishment of the 16th Century grade II listed Grammar School, the oldest secular building in Leicester, working closely with the conservation Architect and the University of Leicester Archaeological Services in restoring the Historic building which now forms the key attraction to the restaurant quarter in the development.

In addition Waterman advised Hammerson on all transport related aspects of the proposed development and provided environmental consultancy services including EIA, sustainability appraisal, contaminated land investigation and environmental management planning.

Karl Boyce, Development Marketing Manager for Hammerson said: *"In future months this project will undoubtedly be recognised as one of the most successful regeneration projects in the UK. Highcross will play a vital role in transforming Leicester, delivering more than 2000 jobs and a brighter future for the city."*



Architects:  
Foreign Office Architects  
Chapman Taylor  
Gollifer Langston

Highcross



Architects:  
GMW Architects  
Grimshaw

125 Old Broad Street

# reforming the old london stock exchange

July 2008 saw the completion of Hammerson's £175m redevelopment of the building once home to the London Stock Exchange. 125 Old Broad Street was originally completed in 1970 and occupied by The Exchange until its relocation to Paternoster Square in 2004.

Located in the heart of the City and with the Bank of England nearby, the 103m tall tower comprises 26 floors of Grade A office accommodation, totalling 29,700m<sup>2</sup> and there is a further 1,200m<sup>2</sup> of retail and storage space. Waterman Group was appointed to provide structural engineering services for the project.

The principle structural modifications included:

- Removal of the original load bearing precast facade that was also a component of the building lateral stability system, and replaced with new structure to carry the perimeter of the building.
- Extension of the existing slabs by circa 2m on all tower floors.
- Remodelling and replacement of lower level tower floors to optimise storey heights.
- Installation of additional reinforced concrete lateral stability walls within the existing core of the tower.

- Construction of a new six storey steel composite building and two storey roof plantroom.

Julian Traxler, Senior Associate Director for Waterman Structures, said: *"The most interesting part of the project was the challenge associated with providing for an increase of lateral wind loads due to the increase in floor area, whilst removing the original perimeter stability contribution offered by the precast cladding. We developed a whole building finite element model to ascertain the contribution to vertical and torsional stiffness that was provided by the original precast cladding panels, and then developed a design and sequence of construction for an additional 24 storey reinforced concrete stability wall system that was required to be poured within the existing structure."*

# focus on ireland



Waterman Group provides services to a very diverse range of clients in Ireland and has established a strong reputation since first entering the Irish market in 2000, growing the team from 20 people to 100 in eight years. The Group continues to market its services to Irish clients under the Moylan name and operates from offices in central Dublin and in Swords (north County Dublin), providing civil and structural consultancy services. Waterman Times focuses on Ireland and speaks to Paul O'Connell – Managing Director of Waterman's Irish business.

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## **Waterman has a long track record of successful project delivery in Ireland. What is the key to your success in the Irish market?**

As a service company, success is ultimately dependant on our ability to appreciate the client's needs and to deliver a service that meets, or preferably, exceeds, their expectations. As well as having a team of dynamic and innovative senior engineers and supporting staff, our directors are heavily involved in leading the technical work that we do. This allows our clients to have more confidence in us and ensures that the advice and design solutions that we provide are top class. The fact that a number of our clients have employed Moylan exclusively to provide any civil or structural engineering advice they require over the last 10 years is a measure of their recognition and appreciation of the value of the service we provide.

Successful projects include a major piece of public infrastructure - the completion of Porterstown Bridge in 2003; the €120m Rockfield development in Dundrum, which included heavy civil engineering, a tram station and significant building structures; the Ballymun Regeneration Project, one of the most ambitious urban renewal schemes in Europe; and the €1billion Clongriffin New Town Centre, a mixed-use development and one of the most ambitious developments being undertaken in Ireland at present.

## **Which clients are you working with at the moment?**

The biggest proportion of our business comes from the development market and we are retained by many of Ireland's largest development firms, including Gannon Homes, Manor Park Homebuilders, Castlethorn, Ballymore, Park Developments, Cosgrave Developments, Walls Property and Treasury Holdings.

We have a growing presence in the public sector infrastructure and building marketplace. Clients include the Department of Education and Science, Office of Public Works, a number of local authorities including Dublin City, Fingal, Dun Laoghaire Rathdown, Louth, Kilkenny, Offaly, Wexford, Navan Town, and Dundalk and semi-state organisations such as Dun Laoghaire Harbour, Dublin Docklands Development Authority, Shannon Development Authority and NABCo. Projects range from small scale remedial and upgrading works, such as our recent appointment for the upgrading of nine Dublin City libraries to provide for universal accessibility, to major exemplar public building schemes such as the €30m social and affordable housing scheme in Stepside, south Dublin.

We also have a strong reputation for providing technical investigation and advice on construction and property claims, and for developing and managing remedial works to

address building defects and the company has been working with some of the main insurance companies in Ireland.

### **Which other areas are you working on developing?**

One area we are developing is Health and Safety. Recent changes in the Irish Safety, Health and Welfare at Work (Construction) Regulations have resulted in a demand from clients for advice and assistance on health and safety matters associated with project procurement. We have now employed a specialist Health and Safety Manager, with a background in civil engineering design and management, and a considerable workload has already been secured.

The acquisition of Boreham Consulting Engineers in 2007 created an opportunity for the expansion of Waterman's traffic and transportation services offering in Ireland. Moylan traditionally provided traffic advice to its clients, but lacked the specialist modelling and transport planning capabilities that Waterman Boreham can provide. By working together, we are now able to offer a one stop shop for all traffic engineering services. Furthermore, we are now seeking opportunities for these services within the public sector – a sector in which we have previously not been very active.

Another focus for us at the moment is the development of international consultancy capability. Irish developers are planning a significant amount of investment in overseas markets, particularly in Europe and the CIS. Working in conjunction with Waterman's local offices in these regions, we can offer a unique service to this Irish investment. We are also providing specialist support to the European offices, particularly in traffic and transportation, site development planning, infrastructure design, and large scale residential and mixed use development. A number of commissions have already been secured, and we have teams currently working on projects in Belgium, Belarus, Kirgizt Republic, Tajikistan and Ukraine.

In 5 years time I would like Waterman to be recognised as one of the leading consultancies, offering a full range of services throughout the country. This will require the establishment of building services design and environmental consultancy capabilities in Ireland, as well as the establishment of regional offices outside of Dublin. Once this has been achieved, I see no reason why Waterman would not be one of the top consultants operating in Ireland.

*For further information please contact  
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Clongriffin New Town



Ballymun Regeneration Project



# tianjin binhai hi-tech park

Tianjin Binhai Hi-Tech Park in China is designed to rival the best global high-tech cities including Stanford and Silicon Valley, in a development that integrates education, research and development with a top quality living and working environment.

Established in April 2007, Waterman International's office in Tianjin is being selected on an increasing number of commissions, particularly for masterplanning/urban and landscape design. In February 2008, Waterman was appointed to undertake the masterplan/urban design of the new 30 sq km Tianjin Binhai Hi-Tech Park. This appointment was closely followed by the detailed landscape design for a 3.6 sq km area and the detailed urban design for the 1.4 sq km phase one, including planning guidelines to control future proposals and development.

Waterman's masterplan vision was to create a new world class technology city, with an environment focused on attracting the world's best talent. Tianjin Binhai Hi-Tech Park is designed to rival the best global high-tech cities including Stanford and Silicon Valley, in a development that integrates education, research and development with a top quality living and working environment.

Initial ideas were inspired by cutting edge technology and set out to deliver true 21st century living for the new creative sector of Tianjin's emerging hi-tech society. Fundamental to the design was the concept of creating a high quality linking open space network, with a system of 'conductive pathways' that carry the energy of ideas through a 'city of rooms' or land use characters.

This open space network contributes to a sense of place that will attract the best in hi-tech enterprise because it provides the very best environment in which to LIVE, WORK, THINK and ENJOY. It seeks to stimulate social interaction and encourage the generation of ideas both in the business and technology areas, the community and living spaces. The existing water network has also been enhanced to provide links alongside primary green pathways to active landscape edges where large scale water and green space is used for amenity, leisure and sport. In this way the city provides direct access to various scales of space and activity such as public squares, parks, walks, sports facilities, bars, restaurants, shops and cultural centres for music, cinema, the arts and more to offer a varied and exciting lifestyle.

In order to describe the complex mix of land use characters and provide a context for design responses a series of character key words were defined at the outset:

**LIVE:** residential, schools and public facilities – characterised by intimacy, calm, tranquility and health;

**WORK:** modern services, electronic information industry and biopharmaceuticals – characterised by focus, creativity, innovation and networking;

**THINK:** cultural centre and leisure – characterised by relaxation, participation and stimulation;

**ENJOY:** commercial and public facilities – characterised by vibrancy, playfulness, interaction and activity.

***This open space network contributes to a sense of place that will attract the best in hi-tech enterprise because it provides the very best environment in which to LIVE, WORK, THINK AND ENJOY***



All aspects of the detailed proposals were considered in these terms to generate a meaningful and cohesive palette of elements and materials, which reflect a high quality, innovative, creative and sustainable approach to the design.

Simon Harden, Managing Director, Waterman International comments: *"This has been a challenging and exciting project which has provided an ideal opportunity for fostering working relationships between our landscape teams in the United Kingdom and China. The client has been impressed by the standard of Waterman's work, both in terms of the quality of advice given as well as in the way we have communicated and presented our ideas."*





Stuart Jackman and Phil Thompson of Waterman receive the award from Huw Edwards of the BBC News

# transportation engineering excellence recognised at the 2008 ace awards

Waterman was named the winner in the Transportation Category at the inaugural Association for Consultancy and Engineering (ACE) Engineering Excellence Awards.

The company scooped the award for its work on Fastrack Route A, a public transport system at 'The Bridge' development in Dartford. The awards recognise ACE member firms for projects that demonstrate a high degree of achievement, innovation, added value and engineering excellence.



The judges commented: *"This project was a very worthy winner. It made a bold statement and employed a great deal of engineering expertise in combining many different engineering activities together. The project has modified an existing infrastructure and connected a lot of places that needed connecting. A really good effort by all concerned."*

Running on its own dedicated infrastructure with new bridges over the A206 and M25, Fastrack is changing the image of 'bus' travel by providing a fast, frequent, modern, reliable and safe service, designed to avoid the congestion of the traditional road system. The system will be crucial to the success of the massive regeneration programme

anticipated in North Kent and will connect the residential and employment areas of The Bridge development. It will also link the development to facilities such as Ebbsfleet International station, Bluewater and the railway stations at Dartford, Greenhithe and Gravesend.



All modern transport schemes rely upon information technology and Fastrack is no exception with the 'Fastrack nerve centre' based on site

The most advanced regeneration scheme underway in the Thames Gateway, The Bridge is a 264 acre mixed-use project, being developed by ProLogis in joint venture with Dartford Borough Council. Alongside 1.8 million sq ft of business space and a new 1,500 home community, The Bridge includes a range of innovative facilities, such as a learning and community campus incorporating the Fastrack public transport system.

As lead engineer, Waterman has undertaken the development's transport planning and all transportation assessments, leading on to the detailed Fastrack, highway and bridge design. This was a true 'cradle to grave' project. Retained as the Client's agent and CDM coordinator, Waterman also supervised construction of the development and handed over the Health and Safety Files upon completion. The Fastrack Route was launched in June 2007 and the network has already become a national example of public transport best practice.

Project Manager for Waterman, Stuart Jackman commented: "We are delighted to have won the award. The project's success results from the input and close cooperation of all the parties involved and Fastrack is now widely quoted as the best practice example of sustainable public transport, setting standards for others to follow."



# awards



## EDIE Awards

Shortlisted for the carbon and water categories



## ICSC European Shopping Centre Awards

Winner, New Developments: Medium

Princesshay, Exeter



## ACE Engineering Excellence 2008

Winner: Transport

Fastrack Route A, The Bridge, Dartford



## Civic Trust Awards 2008

Commendation

Tabard Square, London



## Building Awards 2008

Winner: Major Housing Project

Tabard Square, London



## Sustainability Awards

Shortlisted for Sustainable Consultant of the Year and Sustainable Building of the Year



**ALEX**  
**BURTON**



**TONY**  
**DENBY**

Waterman Times speaks to 2 of the faces behind Waterman: Alex Burton and Tony Denby

**How long have you worked at Waterman?**

**AB:** 44 years.

**TD:** I have been at Waterman for 11 years. I started as an office junior after leaving school.

**Which division and office are you based at?**

**AB:** I am Chairman of Waterman Energy Environment and Design, based in London and will also head up the sustainability group.

**TD:** I am based at Pickfords Wharf, London and I work for the London Structures team.

**What qualifications do you have?**

**AB:** C Eng MStructE. I studied structural engineering at Brixton School of Building (now known as London South Bank University) and civil engineering at Westminster College.

**TD:** I have a National Certificate and a Higher National Certificate in Civil Engineering and most recently, I graduated in July 2008 with a BEng (Hons) in Civil Engineering - also from London South Bank University. I am currently doing an MSc in Structural Design.

**Have you or do you intend to specialise?**

**AB:** I specialised in deep foundations, fast track concrete structures, defence projects, telecommunications buildings, retail, regeneration and my latest specialism is sustainability.

**TD:** I do not intend to specialise as I would like to have some variation in my work and variation in the experience I can gain. At the moment I am currently a CAD Technician but I hope to progress to a more Engineering type role. I intend to stay within Structures but I would like to experience different types of buildings and the materials used. Most of the projects I have worked on over the years have been mainly steel framed new builds.

**Have you received any mentoring at Waterman?**

**AB:** No, but thankfully this has now changed at Waterman.

**TD:** I have received a great amount of mentoring during my time at the company. Technicians, Engineers, Associates & Directors have all helped and encouraged me to learn and progress. I have successfully worked my way up from office junior to CAD Technician

and this has been partly due to the good mentoring I have received.

**What training have you received at Waterman?**

**AB:** I learned from experience, designing and running projects, but again we have certainly improved our graduate training programmes and structured cpd.

**TD:** As a CAD Technician, Waterman has mostly given me training in the use of draughting software: AutoCAD, ADT, 3D+ and most recently Revit Structure. I have also had training in Health & Safety, CDM and have attended some internal seminars on other issues such as Lateral Stability. I have now gained a degree and Waterman is currently training me in design and the use of 3D interactive design software.

**Name your most inspiring project to date.**

**AB:** In the early 70's I designed Windsor House in London, a 27 storey office tower, using just a slide rule and without the aid of a computer. It was a semi-precast structure with the floor toppings being poured at the same time as the main structural core (below

and the precast part of the cladding. We produced one completed floor per week and finished the project ahead of programme. All our 3D drawings were by hand. It compares very well with the first electronic design and build at Bluewater 25 years on.

**TD:** I think the most inspiring project I have been involved with was probably the HM Treasury (Goggs East, London). It was a refurbishment of an existing Grade II listed government building and I was based on site as a CAD Technician. I had the opportunity to walk around the site to see the work in progress, which allowed me to witness the construction of the details that I had drawn. This was a great opportunity because as a CAD Technician we do not always get to see this.

**What has been the biggest challenge you have faced so far?**

**AB:** The 80's recession but because of Waterman's reputation, we were always able to win a bigger share of the market.

**TD:** I think my biggest challenge so far has been studying part time for a degree whilst working at Waterman. Trying to balance work, social life and the studying has been tough but it has been worth it.

**What are the positive aspects of working at Waterman?**

**AB:** Firstly, Waterman gives you as much back as you are willing to put in and secondly I have enjoyed being able to make my own decisions.

**TD:** Waterman has a good reputation and this has meant that I have had the opportunity to work on some large and prestige projects. Waterman has been, and continues to be, very supportive and encouraging with the training of staff and this means there are good career prospects available. We have a good staff welfare and a friendly sociable environment which makes Waterman a good company to work for.

**Can you describe the Waterman culture?**

**AB:** Friendly, practical and innovative.

**TD:** I would describe the Waterman culture as modern, ambitious and professional but also very vibrant and social.

# forming of waterman energy environment & design

01 July 2008 marked the beginning of a new era for Waterman, with the incorporation of a new company – Waterman Energy Environment & Design.

It has been a long term vision of Waterman that the three existing environmental companies within the group should be brought closer together, enabling clients to have access to a comprehensive and integrated service with a clear and inclusive identity. The amalgamation was carefully planned to ensure that any changes made sound business and commercial sense, respected the company cultures and maintained and enhanced the service to clients.

The new company will begin trading early next year when the infrastructure and systems are finalised but in the meantime the company names Waterman Environmental, Waterman CPM and Waterman Sustainable Energy

will cease to be used across all marketing literature. The legal directors for the new company will be Simon Handy, Clare Brockhurst, Joe Morris, Graham Hiscocks and Alex Burton and all the other directors of the three existing businesses have joined the operational management board.

Alex Burton commented: *“There are many benefits from closer associations for the environmental business and great opportunities for our teams and individuals with a growing national and international presence. The legal directors for the three businesses all agree that this is a great opportunity for our teams, the group as a whole, and of course our clients.”*

## sustainability

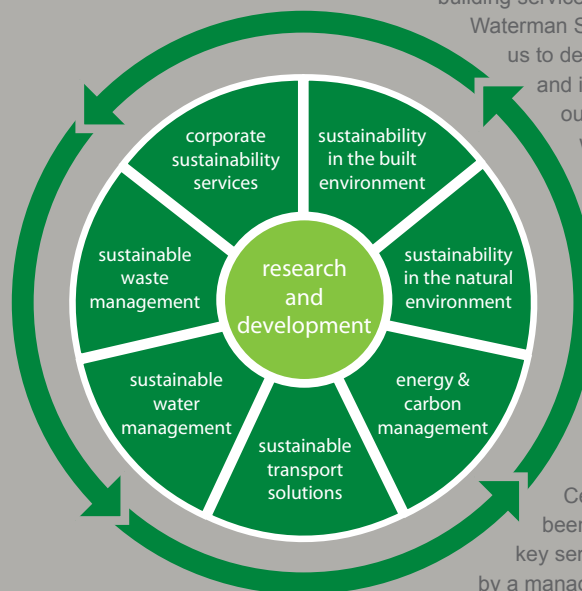
Alex Burton commented: *“the establishment of Waterman Sustainability provides the structure to supply our clients global sustainable solutions for their projects.”*

## Delivering Global Sustainable Solutions

In recognition of the emerging opportunities within sustainability, Waterman Sustainability has been established to provide a central co-ordinated focus to the Group in delivering our services in this area.

Drawing on the combined resources of our environmental, civil, transport, building services and structures teams, Waterman Sustainability will enable us to deliver co-ordinated and integrated solutions to our clients. In addition, we have invested in a central research and development function which will be responsible for researching the latest developments and policy initiatives which will then be made available centrally to the Group.

Centres of excellence have been established across the key service areas, co-ordinated by a management team.



# the next epc date approaches

(92-100)

**A** ll buildings, save for a few exceptions, will need an Energy Performance Certificate (EPC) from 1<sup>st</sup> October 2008, which is valid for 10 years. This information will enable potential buyers, tenants or building occupiers/owners to consider the energy performance of the building as part of their overall investment; providing them with an insight into the energy bills they can expect to pay and allowing evaluation with comparable properties.

The EPC for a non-dwelling property will include details of the internal layout of the building, type of construction of the walls, roof, floors and glazing, different uses of zones, heating, cooling, ventilation as well as information on the hot water and lighting systems used. The energy performance is shown as a CO<sub>2</sub> based index – the lower the scoring, the lower the typical CO<sub>2</sub> emissions. This will be accompanied by a recommendation report, which will show how the energy performance of the building could be enhanced, with an indication of the associated payback period.

A Display Energy Certificate (DEC) will also be required for buildings occupied by public authorities and institutions providing public services to a large number of persons, with over 1,000m<sup>2</sup> of floor area. These certificates show how well the building is operated to deliver energy savings and focus on actual energy consumption by means of energy bills and meter readings, including the previous 2 years operational ratings, plus an asset rating showing the intrinsic performance of the building. DEC's must be displayed in a prominent place that is clearly visible to the public and, as with EPC's, they will be issued with an advisory report containing recommendations for the cost-effective improvement of the energy performance of the building. A DEC will be valid for 12 months and the advisory report will be valid for seven years.

Upon receipt of a building plan (or confirmation that none are available) Waterman is able to complete a survey within 7–10 days, with a finalised certificate and recommendations report 7–12 days thereafter.

Waterman is working with several major commercial and public sector organisations to help them measure, manage and mitigate their carbon emissions in realising business and financial benefits, including being appointed to produce energy performance certificates (EPC) for all Middlesbrough Borough Council's portfolio of 282 commercial buildings. The surveys are being carried out as a part of a four year rolling programme, which commenced in August 2008. Waterman is also in the process of producing EPC's for a number of warehouses owned by Land Securities and a large primary care centre recently developed by Laing O'Rourke.

For further information please contact Ian Butterfield  
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Ian Butterfield,  
Associate  
Director for  
Waterman  
Building Services,  
comments:

*"Waterman understands that today's buildings are looking to be 'greener'. We work with our clients to develop strategies to help manage their climate change risks and opportunities, balancing these in a commercial context. Low carbon consultants, energy assessors, engineers and surveyors are all key members of the Waterman design team and are essential to the building of a greener, more sustainable future."*

(81-91)

**B**

(69-80)

**C**

(55-68)

**D**

(39-54)

**E**

(21-38)

**F**

(1-20)

**G**



# the rise of fm in the middle east

Once just an emerging concept in the Middle East, Facilities Management (FM) now looks set to enter a major period of growth as the region's investors and developers realise they can optimise their investments through effective facilities management.

Peter Roddam, Associate Director FM for Waterman International Consultancy, explains: *"Only a few years ago the biggest challenge was getting clients to understand what 'Facilities Management' actually meant and then educating them about the benefits. However, in the last 18 months, FM has become a daily used term in most organisations and now the business development race is well and truly on."*

Middle East Strategy Advisors (MESA) estimate the FM industry to be worth in the region of US\$704 billion over the next 25 years, driven by the regions maturing property market and ongoing construction boom. With construction spend in the region valued at US\$900 billion and increasing at the phenomenal rate of US\$4 billion per week, the implications for FM have never been greater. The maintenance of these new buildings and facilities will cost trillions of dollars and consequently FM has a major role to play. The growth in the industry is further enhanced by the big move towards green building in the UAE. As property developers learn more about the benefits of energy management, they are seeking expert advice on how to save energy over a building's lifecycle.

Waterman has embraced the FM opportunity presented in the region, introducing its Facilities Management Consultancy in 2006. This discipline has gone from strength to strength, winning major clients such as Global Village and the new state of the art Injazat Data Centre (pictured) in Abu Dhabi. Waterman also provides FM consultancy in Australia and is supported by the FM team in London.

## Australia

Sydney Airport Corporation Limited (SACL), the company responsible for providing Terminal Facilities at both the International Terminal (T1) and Domestic Terminals (T2 and T3), is a major Engineering Facilities Management (EFM) client for Waterman in Australia. Originally opened in 1970, the T1 facility has seen significant modification over the last three decades. Expanded most recently for the Sydney Olympics in 2000, another major expansion is currently in progress.

After the events of September 11, security measures at all Terminals have been upgraded, including installation of extra checked bag screening X-ray machines. On New Year's Eve, with temperatures approaching 50°C ambient, failure of these X-ray machines would have proved catastrophic as it would have impaired the ability to process passengers through to airside. Waterman was called to site on New Year's Day and following an initial analysis of the rising temperature around the machines, a design for spot cooling was implemented thus averting a potential problem for the airport.

The success of Waterman's involvement with SACL in Sydney has seen an interstate extension of services, with a Consultancy Services Agreement recently being signed with Brisbane Airport.

## United Kingdom

The FM Team have been providing a 'call up consultancy' service to Slaughter & May, the International corporate and commercial law firm, overseeing the installation of new UPS and DX cooling systems within their headquarters in London. A review of the building services arrangements and their effect on critical business systems was carried out and a number of issues identified relating to the continual operation of business critical systems under normal and emergency conditions. Electrical discrimination problems on UPS distribution arrangements and a number of possible single points of failure within the chilled water system were resolved by Waterman's design and project management of the two new installations.

A detailed investigation was also carried out on the boiler system, which had previously experienced unidentified operational problems. The examination identified problems relating to the close control of the system and following a period of observation and analysis, Waterman arranged for adjustments to be made to allow it to successfully operate as the original design had intended.



# architectural engineering

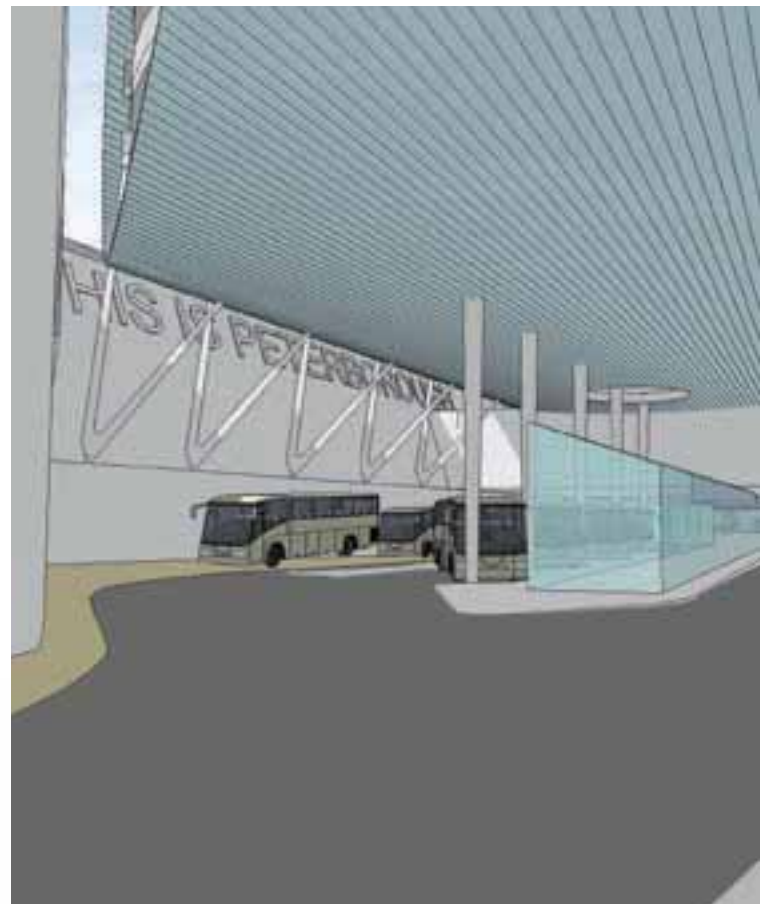
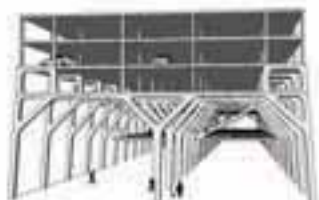
Waterman's newly formed Architectural Engineering team has been developing initiatives to train, inform, inspire and challenge our designers to strive for creative excellence. This discipline promotes close collaboration between the Architect and Engineer as a way of realising and projecting innovative ideas and concepts.

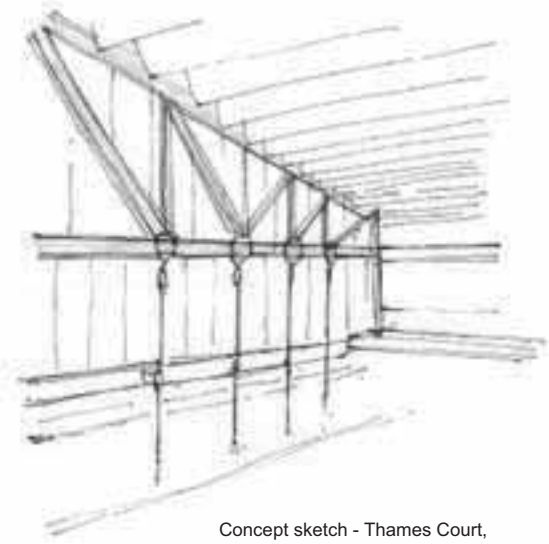
To encourage our designers to combine their technical knowledge with a sense of aesthetic, a series of initiatives has been developed which include: free hand sketching classes; basic training in 3D applications such as 'Sketchup'; modelling workshops; producing inspirational posters and holding regular in-house design competitions.

These workshops have been undertaken in tandem with research into structural glass, tensile fabric and pneumatic structures, enabling Waterman's designers to respond to the most innovative of designs.

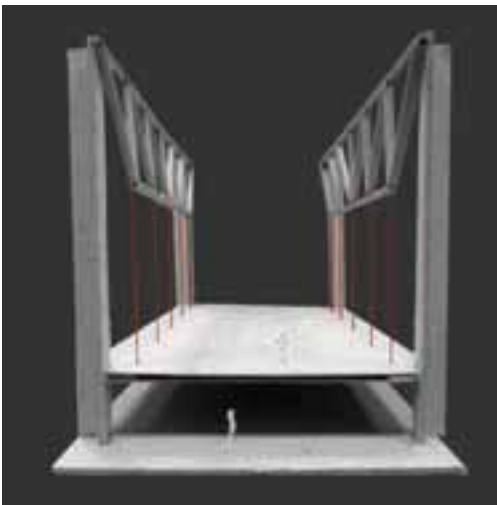
For the 'Peterborough Pod' the Architectural Engineering team developed a concept structure to support a potential car park pod to sit above an existing bus station. An exposed concrete solution, with varying geometry was conceptualised to produce a dramatic public space. Working in close collaboration with the architect, two schemes were developed, one cantilevering from a central spine of columns and the other with an additional support at one end. The depths of the trusses for both options were varied to sweep down and intersect with a new retail bridge, which emulated a strong rhythmic aesthetic to the structure.

*For further information  
please contact Charlie Scott  
c.j.scott@waterman-group.co.uk*





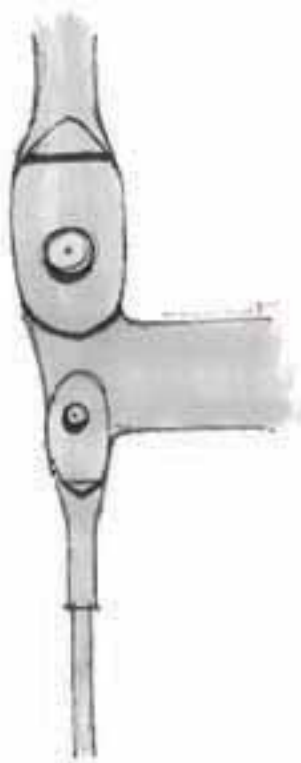
Concept sketch - Thames Court,  
Upper Thames Street



Atrium Concept - Thames Court,  
Upper Thames Street



Hanger detail - Thames Court,  
Upper Thames Street



# parkside strategic rail freight interchange – moving freight more sustainably

Waterman has now cleared all the strategic transport planning issues with the Highways Agency and a Planning Decision is expected from St Helens Council shortly for the proposed Parkside Strategic Rail Freight Interchange. The site has been recommended for consideration as an inter-modal freight terminal in the draft Regional Spatial Strategy for the North West. If approved, it will facilitate the transfer of approximately 2 billion freight tonne-miles from the UK's roads to the railways every year. This means more than half a million heavy goods vehicles will be removed from the national highway network each year. The majority of these HGV's currently move goods to and from the North West to Haven and Solent Ports, Tilbury, Immingham, Avonmouth and the Channel Tunnel. Deep-sea container traffic to the UK is increasing at approximately 5% per annum and existing rail freight terminals in the North West are reaching capacity.

Parkside lies alongside the M6 motorway between St Helens, Warrington and Wigan. When fully developed Parkside will create 10,000 jobs on a site that covers 272 hectares of mainly brownfield, ex-coliery land. It will provide up to 715,000m<sup>2</sup> of rail served warehouse and distribution buildings, 18,600m<sup>2</sup> of B1 office space for the Parkside Business Centre and 9,300m<sup>2</sup> of on-site retail, food and leisure facilities.

The development will be served by extensive rail sidings, capable of handling 36 freight trains of up to 775m in length each day, with connections to the West Coast Main Line and the Liverpool-Manchester railway, both bordering the site. Road access will be provided by the M6; Junction 22 will be relocated 1km further north and the northbound carriageway between Jn 21A and the new Jn 22 will be widened.

Waterman has provided a range of consultancy support services to developers Prologis and Astral during the planning application stage. This has included transportation planning (traffic impact assessment, travel plans, public transport improvements, strategic transport modelling and economic analysis), highway and bridge engineering (operational, capacity and safety assessments and negotiations with the Highways Agency and the three local councils), infrastructure consultancy support (geotechnical and earthworks, on-site road and rail-interface infrastructure, flood studies and drainage assessments) and engineering input to the Environmental Statement.



Bolton Medical Centre

# engineers face fresh challenges in healthcare

Recent legislative and regulatory changes in the healthcare sector have meant that Building Services Engineers now face fresh challenges in designing to stricter criteria without increasing the costs. Dave Poulding, Regional Director for Waterman Building Services, investigates.

Under the Government's drive to improve healthcare provision throughout the United Kingdom, the healthcare sector has seen dramatic expansion in recent years. However, rather than being directly funded by the public sector, private developers are often providing the facilities required by GP's or Primary Care Trusts (PCT's) and then leasing the building back to the occupiers at a rate agreed by the Government's District Valuer.

With the capital investment being undertaken by a third party, a number of PCT's and GP practices are benefitting from enhanced facilities, without the initial outlay. This method of development does, however, introduce its own challenges to the developer's design team. Government-appointed District Valuers have strict criteria that dictate the maximum payable rent and this, in turn, puts financial constraints on the affordable capital investment by the developer.

Further changes include the shift in the design principles for medical centres due to changes in legislation, in particular Part L and Part F of the Building Regulations. There has also been an increase in planning requirements, with a number of authorities now requiring 10% of energy provision through renewable technologies.

Furthermore, the latest changes to the Health Technical Memorandum (HTM), for Building Services Installations, have increased the measures to control and prevent legionella within hot and cold water installations.

Despite these changes and the stricter criteria, Building Services Engineers must maintain the same cost level required by both the District Valuer and the client.

In recent years, Waterman has undertaken a number of these projects throughout the country, ranging in value from £1.8m to £10m, and several further developments are currently progressing towards the design stage. Through the use of design tools such as thermal modelling packages and CFD analysis, Waterman is able to determine where natural ventilation can be employed, whilst also focusing on where mechanical ventilation rates need to be increased, to ensure overheating does not occur.

Reducing the need for comfort cooling clearly has a capital cost benefit, but naturally, with rising fuel and energy prices the ongoing revenue costs can also be reduced. HTM guidance notes also recommend the use of ventilation rather than comfort cooling. The biggest impact, however, is the increasing demand from PCT's and planning authorities to

incorporate alternative energies to reduce the CO<sub>2</sub> emissions of the development by 10% and in some instances by 15%. The use of solar water heating, bio-mass boilers and combined heat and power (CHP) units have been utilised by Waterman on recent schemes to satisfy this criteria, although the change in Government opinion on bio-mass systems will no doubt impact on this approach and the resulting cost to the developer.

Inevitably these technologies come at a price; therefore they need to be accommodated within the cost viability for the project, to guarantee the development will take place. The developer also needs to ensure that the margins for financial returns are maintained through the life of the lease period, otherwise it will be hard to justify the initial investment.

Within the current economic climate, these developments appear to be continuing, with projects in Blackpool, Chesterfield and five further schemes in Wales, all being progressed by Waterman's Birmingham office. Although privately funded, the occupier's rent comes from the public purse and with the Government under pressure to improve health provision, it is fully anticipated that this type of project will continue for some time to come.

*d.a.poulding@waterman-group.co.uk*



Crewe Medical Centre



Bolton Medical Centre



Kingsgate Footbridge

UCL students stand proudly on their completed bridge. The task comprises a reinforced concrete bridge deck, cast in two sections, supported by steel legs on swivel bearings cast into piles caps using driven steel piles.

# constructionarium

During two sunny weeks in June, undergraduates from University College London (UCL) and Loughborough University teamed up with main contractor Laing O' Rourke and engineers from Waterman to take part in this year's 'Constructionarium' at the CITB Training Centre in Norfolk.

Constructionarium is a hands-on, five day construction experience for undergraduates, where students gain practical experience through building scaled down versions of existing structures using reinforced concrete, steelwork and timber. Working in groups of 20, the teams undertake all construction activities (with the exception of heavy plant) as well as key aspects of planning, budgeting and risk management, all under the watchful eye of construction professionals.

During the first week, 80 second and third year students from UCL joined forces with representatives from Laing O' Rourke and Waterman engineers Andrew Harrison, Helen Blacker and James McCulloch. In the second week 40 first year students from Loughborough

University, worked with Laing O' Rourke and Waterman's Dan Ball and Ashley List.

Dr Peter Domone, Senior Lecturer at UCL commented: *"An understanding of all the activities on a construction site and the skills needed for successful construction can only be obtained by first-hand experience, which is why the Constructionarium is extremely valuable for our students; indeed we now see this as an integral part of our undergraduate degree programme."*

This year's events were a great success with all teams completing the challenge and gaining experience that could not otherwise be achieved within the academic environment.



Brewery Wharf Footbridge



Ravenspurn Oil Platform The project comprises the construction of a 4m square 1.75m high concrete caisson in a dry dock...



a platform is attached and the structure is floated into the lake...



before being sunk in a pre-determined location.

# bob campbell's

# reflections

*on the last 20 years*



Following my retirement from the plc board last year, I have been asked to write a few words on the history of the company, based on my own recollections. As a leading consulting engineer, Waterman has always been very much a 'people' business and the success of the company has been due largely to the skill and dedication of the directors and staff, over a period of many years. It has been a great honour to serve the company for over 38 years, which is the majority of my working life.

## The Early Years

When I joined Waterman in 1970 I found myself as part of a 30 strong structural engineering practice, which was established 18 years previously and was now beginning to grow quite rapidly. A strong private sector client base had been established, particularly in the commercial office sector. A number of landmark projects in London were being designed including Hearts of Oak and Windsor House. Much of this work is illustrated in David Souden's excellent book 'Ingenuity and Engineering – The Waterman Story', published in 2001.

## The Breakthrough

In the late 1970's and early 1980's Waterman succeeded in winning and successfully executing a number of much larger projects and became quite rapidly a 'top 3' consultant in the London market. Major projects included Cutlers Gardens in the City of London, which was our first project of over 1 million square feet of office space, London Bridge City and Barkers Store in Kensington. Opportunities were created by the Government sponsored redevelopment of London Docklands in the 1980's. Waterman asked me to set up a local office which handled a considerable number of projects, culminating in the design of the Canary Wharf Tower, currently the UK's tallest building. During this period, Waterman developed a highly efficient fast build steel frame system, under Jim Mathys, which led to a considerable volume of repeat business. A number of large industrial projects were also undertaken, by Alex Burton's team as an important element of diversity for Waterman.

## Becoming a Plc

As a rapidly growing partnership with annual income approaching £10m it became clear to the partners that they would be unable to finance future expansion and costly new computer systems from their own funds. It was also felt that the unlimited personal liability of a partnership was not appropriate to a larger organisation. As a result, Waterman became an incorporated company with limited liability in 1988 and obtained a quotation on the London Stock Exchange and plc status in the same year. The flotation was well supported, with 40% of the company's equity being purchased by institutional shareholders.

In order to share the benefit of being a quoted company, the board decided to introduce a series of schemes which enabled the majority of staff to be awarded shares in the company. Other benefits of being a plc included being able to acquire other engineering companies, the first of which was Leeds based BBT in 1989.

## The Dark Years

The boom years of the late 1980's were followed by a sudden and serious recession in 1992. There was a sharp slowdown of all commercial and residential projects, however the best performing part of the company at that time was the Power Group headed by the late Geoff Buckton in Leeds and a number of engineers were seconded from London to assist with projects such as Drax and Keadby power stations. This was a difficult period for the new plc company, but fortunately, the original partners had left a significant part of the proceeds of the flotation within the business which helped to safeguard the future of the company at that time.

## The New Dawn

From 1993 onwards there was a slow and progressive recovery in the UK economy, which has continued to prosper until recently. In common with the difficult period in the early 1970's the company was able to secure a significant volume of professional work, in this case reporting on structural damage caused by the three IRA bomb attacks in London. In many cases, our engineers had to enter badly damaged buildings to make their assessments, but fortunately nobody was injured. A quick look in the 'rear view mirror' told us that we had been far too dependent on structural work in the City and Docklands and that we had to diversify to grow our business. We immediately set out to develop into a multi-disciplinary consultancy operating through a network of offices in the regions of the UK, in addition to London. Major steps along this route included adding M&E and Environment in the 1990's and the acquisitions of the Aspen and Boreham civil engineering groups, Furness Green and CPM in the early 2000's. Major projects in the period included the Bluewater Shopping Centre in Kent, The Bullring in Birmingham, Liverpool One and The Paternoster Development in the City of London. The company has also benefited

from the government's private finance initiative (PPP) in the fields of healthcare, education, defence and government offices.

### Distant Horizons

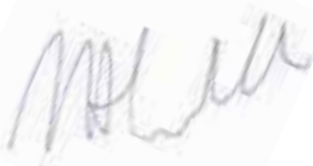
Up to 1990 the large majority of our work had come from the UK and from SE England in particular. There had previously been a number of overseas ventures in the early years including The Bahamas, Nigeria, France and Germany. I personally ran Waterman's Paris office in the early 1970's. It had become clear that the world offered considerable opportunities for our newly established multi-disciplinary consultancy, but that we had to focus on countries which needed development projects but also had the funds to pay for them. On this basis we set up a series of international offices and companies in places such as Moscow (where we have been established for 17 years), Warsaw, Brussels and Dublin in Europe, together with Australia, China and the UAE. Today our overseas work is increasing rapidly and amounts to around 32% of our fee income and includes some major prestigious projects. These include the Russia Tower in Moscow, which will be Europe's tallest building and Al Raha Beach project in Abu Dhabi. Simon Harden was appointed to head up Waterman International and is now based in Dubai.

### Passing the Baton

The long term success of any organisation depends largely on its ability to replace its leadership effectively from one generation to the next. Waterman has now successfully entered into its third generation of management and I often think of the process as being rather like a relay race. Our first generation consisted of our founder Harold Waterman, the late Andy Thomson, Fred Clappitt and Bryan White. The second generation consisted of Alex Burton, Jim Mathys, Barry Gore and Arthur Austin with myself in the MD role. The third generation now consists of the plc and Group Management Boards with Nick Taylor in the role of Chief Executive. The second and third generations have been supported and encouraged by our non executive chairmen Bill Mathieson and Roger Fidgen, with the backing of David Horne, John Archibald and Geoff Wright as independent directors. Graham Hiscocks has the finance director role with increasing responsibility as the group grows.

### The Future

While writing this article I cannot help noting that the UK economy is once again entering into more uncertain times. On this occasion, however, our group has successfully diversified its business by becoming multi-disciplined and now has a global reach. I am pleased to note that we are no longer dependent on the London market for our work and that we can now benefit from a growing number of very promising emerging overseas markets. The lessons learned during the 1990's are now showing their long term benefits. I note that currently Waterman has over 2100 staff working in 49 offices in 15 countries. I cannot help comparing this with my early days at Waterman and I am sure that the company will continue to grow and prosper for generations to come.



bob campbell

# waterman boreham welcomes minister to new offices

The new Waterman Boreham Dublin offices were officially opened on the 16th April by the Irish Transport Minister Noel Dempsey. Minister Dempsey's visit was planned to also coincide with celebrating the tenth year of business in Ireland. The minister addressed the audience providing an update on Transport 21, the largest investment ever in Ireland's transport system, with particular reference to Public Private Partnership (PPP) elements of the Plan. He praised the PPPs, which have helped in the progress of Transport 21 through the speed of delivery, innovation and excellent construction practices.

Eoin Reynolds, Executive Director for Waterman Boreham, commented: *"It was a fantastic opportunity to welcome Noel Dempsey, Minister for Transport to our new offices and receive his best wishes for the future, in this our tenth year of business in Ireland. We look forward to the continued delivery of Transport 21 initiatives and welcome the opportunity to use our considerable knowledge and experience to help achieve a transport infrastructure for Ireland that is truly the best in Europe".*



From left to right: Eric Bentley (Associate Director), Minister Noel Dempsey (Minister for Transport), Eoin Reynolds (Executive Director), Seamus Nolan (Associate Director).

Waterman Boreham has recently been appointed as one of three preferred consultants on the Dublin Docklands Development Authority's Framework for Traffic Consultancy, beating 23 other firms to secure the position.

## waterman celebrates dubai move

In April this year, Waterman hosted a party in Dubai to celebrate the relocation of its international headquarters to new purpose built, state-of-the-art offices at Festival Tower, Dubai Festival City. The event, held in the Intercontinental Hotel that forms part of the Festival City development, attracted many of the top property movers and shakers in the UAE.

Dubai Festival City has become one of most prestigious business addresses in the region and is conveniently located just 2km from Dubai International Airport, with direct access from the new 12 lane Garhoud Bridge and 13 lane Business Bay Crossing.



Waterman was responsible for delivering building services designs for Festival Tower, part of Phase 8b Dubai Festival City, which includes the Intercontinental and Crowne Plaza Hotels and conference centre.

Simon Harden, Managing Director of Waterman International, relocated to Dubai last year. "It was a pleasure to be able to

*celebrate the completion of Phase 8b Dubai Festival City and the opening of our new offices with many of our key clients and associates. Dubai was the natural choice for our international HQ as it is the geographical centre of current global operations and the UAE is also the fastest growing of Waterman Group's international businesses."*



Winning photo: "Wind Turbines, Ovenden Moor, Halifax" by Peter Johnston

## photo competition winners announced

This year, Waterman held its first group-wide photography competition. Over 800 entries were submitted from offices around the world, in the search for the best sector photo.



Rail photograph by Krzysztof Jurek

The first prize of £200 of photography vouchers was awarded to Peter Johnston in the Leeds office for his entry "Wind Turbines, Ovenden Moor, Halifax", representing the Energy sector. Runner-up Krzysztof Jurek, from the London office, was awarded £100 of photography vouchers for his rail photograph.

Photographs submitted may be featured on the new website and corporate brochures, and following the success of this year's competition, we will be looking to make this an annual event.



## olympic hopefuls set sail for the eurocup

The Waterman-sponsored sailing duo, Max Richardson and Alex Groves, have again been selected for the British Youth Squad and will compete at the Eurocup event on Lake Garda, Italy, this October.

Lake Garda will also be the venue for next year's 29er World Championships where the pair will be defending their title, before moving into the Olympic 49er class, with a view to competing for 2012.

## common sense approach to tree risk



The consultation draft British Standard 'Recommendations for Tree Safety Inspections' has recently received extensive media coverage, raising the awareness of Tree Risk Management. The proposed recommendation for managing trees has been described as disproportionate, costly and unnecessarily bureaucratic. It has raised concerns that important parts of our heritage could be needlessly taken away by new demands in the name of public safety, without taking proper account of the actual risk, or the numerous benefits we get from the presence of our trees.

Waterman's newly appointed Principal Arboricultural Consultant, Andy Whalley shares his views:

"Public and private land owners have a legal duty to take reasonable care in managing the risks associated with trees in their control. This duty of care is reinforced in a landmark case that established the importance of having trees assessed regularly by competent and qualified arboriculturists. This case means owners of trees within falling distance of a highway should have a system of risk assessment and management in place. Developed after this case, the future of

the much debated draft BS 8516 Recommendations for Tree Safety Inspections is still unclear.

Providing an adequate defence in the event of harm resulting from tree failure usually requires the land owner to demonstrate that they have not been negligent, but have acted reasonably in the management of their trees and have therefore discharged their duty of care. In most circumstances, to do absolutely nothing is probably unreasonable. Conversely, expenditure on tree safety management should not be disproportionate to the risk being managed. In law, land owners are generally expected to maintain risk as low as is reasonably practicable, and it is usually sufficient to demonstrate that this has been achieved through a structured system. Opportunities exist for the responsible owner to optimise the conservation benefits from collapsing and dying trees whilst managing the associated risks at a reasonable level that is acceptable to wider society.

Waterman aims to advance sustainable urban tree cover by focusing on the economic savings intrinsic to prevention of tree issues rather than the wasteful cost of curing such problems. The team undertakes a variety of tree inspections, surveys and appraisals and fully comprehends the integrated nature of urban landscapes and green infrastructure.

Utilizing Quantified Tree Risk Assessment Waterman quantifies the risk of significant harm from tree failure in a way that enables the client to balance safety with the benefits conferred by the trees and help manage the asset to a predetermined limit of reasonable or acceptable risk."

*For further information please contact Andy Whalley [andyw@waterman-cpm.co.uk](mailto:andyw@waterman-cpm.co.uk)*



## cycle 4 work scheme

Waterman Group recently introduced a Cycle 4 Work Scheme which provides all employees with the opportunity to purchase a bike on a salary sacrifice basis. This supports our sustainable policies and practices, through encouraging our employees to cycle to work, reducing their carbon footprint, and also supporting their health and wellbeing. In addition to the benefits offered, this scheme extends to employees' families offering a discount of 10% for any purchase of a bike outside of the Cycle 4 Work Scheme.

Debbie Willows, Group Divisional HR Director said: "Our employees have shown a huge interest in the scheme and are very excited to have the opportunity to make their personal contribution in helping the environment and improving their health, with the support of the company."

## new commissions

**Waterman Group companies have been recently awarded the following new commissions**

Riverside College, Widnes

Xaverian College, Manchester

Oldham Radiotherapy Cancer Treatment Unit

Leyton Sixth Form College

Abu Dhabi Plaza, Kazakhstan, 582,000m<sup>2</sup> mixed use development

Dollar Bay, Residential Tower, London Docklands

Medical Centres in Grimsby, Aberaeron, Milford Haven, Chesterfield and Dunstable

New term commission for Salisbury General Hospital

Barratt Urban Regeneration, West Bromwich

Selby Community Hospital

6 Bevis Marks commercial building, London

Laoghaire Golf Club, South County Dublin, Ireland

Transportation Study, Weston Otmore Eco-Town

Ansty Park, Coventry

Riverside Regeneration, Stafford

Round Project, Telford

Victoria Gallery, Walbrzych, Poland

Green Square Shopping Centre, Alexandria, NSW, Australia

Feasibility Studies for Network Rail NSIP project for 16 stations in East Anglia

# upcoming events

## october

- 02 Cityscape, Dubai
- 07 BCO Awards 2008, London
- 08 BCIA Awards 2008, London

## november

- 06 Waterman/Property Week  
Breakfast Debate, London
- 10-12 BCSC Conference &  
Showcase, Liverpool
- 18 Sustainability Awards 2008,  
London
- 19-21 MAPIC 2008, Cannes
- 20 BPCC Climate Change  
Seminar, Warsaw
- 26-27 Thames Gateway Forum,  
London

## december

- 03 BCSC Annual Dinner &  
Presentation of the Gold  
Awards, London
- 05 Waterman AGM