


*The Institution  
of Structural  
Engineers*

Structural Awards 2011

[www.structuralawards.org](http://www.structuralawards.org)

Winners and commendations



**The Structural Awards are the world's pre-eminent awards for structural engineering excellence. Hosted by the Institution of Structural Engineers since 1968, these annual awards celebrate the work of the most talented structural designers and their indispensable contribution to the built environment. Structural engineers work on a huge variety and range of developments, from breathtaking landmark structures to small heritage projects. The aim of the Structural Awards is to recognise and reward excellence wherever it is found.**

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**Mike Banfi** is an Associate Director who joined Ove Arup & Partners in 1976. Since 1998 he has been based in Arup's Advanced Technology and Research department.

Mike has advised on aspects of steel construction for many high-profile projects including Beijing National Stadium, Heathrow Terminal 5 and Gatwick's Pier 6 Footbridge.



**Gordon Clark** is chairman of the engineering consultant Gifford, part of Ramboll. He joined the consultancy in 1976 and was appointed a Director in 1992.

Gordon's career as a leading bridge designer included Project Director for the award-winning Gateshead Millennium Bridge.

Lecturing widely and publishing many papers on bridges and other built structures, Gordon has made a major contribution to the advance of technical knowledge and standards throughout the industry.



**Dr Michael Cook** is Director of Structural Engineering at Buro Happold.

During his career Mike has led the engineering design of many unique structures around the world, and contributed to the development of a practice of consulting engineers with a global reputation for creativity and innovation.



**Professor Steve Denton** is Director of Engineering at Parsons Brinckerhoff and heads the Technical Leadership Team. He is a Visiting Professor at the University of Bath.

Steve's interests and experience span many facets of strategic and engineering consultancy, research and construction. In addition to his business and project leadership responsibilities, he retains a high degree of technical involvement in projects, with particular interests in the analysis and design of bridges.



**Ian Firth** is Director of Flint & Neill and is responsible for the design, checking and structural assessment of bridge projects, large and small, around the world.

Ian is well known as a designer of innovative and award winning bridges such as the Bridge of Aspiration for the Royal Ballet School in London and the Sail Bridge in Swansea, and was concept designer for the Stonecutters Bridge in Hong Kong.



**David Harvey** has worked for Associated Engineering for 25 years and is a Principal with the firm. He has been responsible for thousands of bridges of almost every conceivable type over his 40 year career, and has received many industry awards for innovation.

David's particular interests are in developing improved structural systems and in delivering better value. A resident of Vancouver, Canada, his work embraces bridging in remote locations and major transportation assignments.



**Tristram Hope** is the founder and chairman of independent construction consultancy THiSolutions Ltd, with particular expertise in sustainable design, having worked previously with Arup, Buro Happold, Andrew Russell Associates and Building Design Partnership.

Tristram is the Royal Academy of Engineering Visiting Professor in Engineering Design and Sustainability for the School of Civil Engineering at the University of Leeds and a founder member of the Construction Industry Council regional branch of Yorkshire and Humberside.



**Professor David Nethercot** was the immediate past Head of the Department of Civil and Environmental Engineering at Imperial College, London. David was previously on the staff at Cardiff, Sheffield and Nottingham Universities, including five years as Head of Department at Nottingham.

David is a past president of the Institution, Chairman of the Structural Awards judging panel and he won the Institution's Gold Medal Award in 2009.



**Dr Graham Owens** has 42 years experience in structural and civil engineering, working in the contracting, consulting, academic and institutional sectors.

As Director of The Steel Construction Institute (SCI), he was responsible for the technical quality and commercial viability of an organisation of 50 people with an annual turnover of £5m and promoting and developing the proper and effective use of steel in construction.

Graham is a past president of the Institution.



**Professor Roger Plank** is Head of the School of Architecture at the University of Sheffield, where he has been a lecturer since 1976.

Roger has developed a close working relationship with the steel construction sector, and had a leading role in establishing the internationally renowned structural fire engineering research group. His research in structural fire engineering has also led to the development of the award-winning design software, Vulcan, which is being increasingly used in practice.

Roger is the 91st President of The Institution of Structural Engineers.



**Sam Price** founded Price & Myers with Robert Myers in 1978.

Noteworthy projects that Sam has worked on include the Sutton Hoo visitor centre for the National Trust with van Heyningen and Haward and a large new office for Capital One in Nottingham with ORMS, two of the largest in a group of Price & Myers projects that won RIBA or Civic Trust awards.



**Claire Thomas** is Associate Director at Ramboll.

Diverse projects are typical of Claire's portfolio which ranges from regeneration and remediation, refurbishment, health centres, sports halls and swimming pools, to speculative offices, schools, colleges and universities. Perhaps most notably, the Said Business School in Oxford.



**Georgina Wong** is currently practising as a contract structural engineer, having worked for Jacobs and Arup on a wide variety of new build and refurbishment projects.

Georgina provides guidance and leadership to a student-led development project in Uganda, of which she was a founder member during the final year of her degree. As a former Chair of the Yorkshire Branch Young Members Group, she welcomes the opportunity to represent the views of young members of the Institution on the Judging Panel.



## London 2012 Velodrome

Structural Designer: Expedition Engineering

**Client:** Olympic Delivery Authority

**Architect:** Hopkins Architects

**M&E Engineers:** BDS Partnership

**Contractor:** ISG

**Location:** London, UK

“The judges all agreed that the London 2012 Velodrome is a project worthy of winning the Supreme Award. As with so many Supreme Award winners before it, there is a sense of “rightness” to this building that is a rare but undeniable quality. It is a gem amongst several jewels in a development that the whole UK can be proud of. It demonstrates outstanding creativity and uniqueness in its combination of the art and science of engineering.”

**Judges' comment**

The London 2012 Velodrome is an outstanding example of structural engineering at its best and a worthy winner of the Institution's Supreme Award 2011.

The Velodrome will serve as a key structural and architectural venue during the London 2012 Olympics, delivering a world-class building and track which encompass beauty, sustainability, value and functionality.

Described by quadruple Gold Medal winner Sir Chris Hoy as “magnificent, better even than it looked on the drawing board”, the venue is testament to the success of Client, Design Team and Main Contractor collaboration and has been delivered on time and on budget.





## Royal Shakespeare Theatre

Structural Designer: Buro Happold

**Client:** Royal Shakespeare Company

**Architect:** Bennetts Associates

**M&E Engineers:** Buro Happold

**Contractor:** MACE

**Other sub-contractors:**

Steelwork contractors: Billington Structural Steelwork

Concrete contractor: John Doyle Construction

Substructure contractor: Cementation Skanska

Structural timber: KLH UK

Demolition contractor: DSM

Architectural steelwork contractor: CMF

**Location:** Stratford-upon-Avon, UK

This project was the £57 million radical transformation of the Grade II\* listed Royal Shakespeare Theatre in Stratford-upon-Avon.

At its heart lies a new thrust stage auditorium which, at 1030 capacity, is the largest of its kind in the world and will revolutionise the way audiences experience live theatre.

The design sensitively incorporates the most significant remains of the earlier theatres which stood on the site whilst bringing the building into the 21st century through the application of innovative structural design – resulting in the best space in the world for the performance of Shakespeare.

“The sensitive and complex refurbishment and remodelling of this landmark in our cultural heritage has elevated what was undoubtedly a theatre that was artistically world-renowned into a theatre that is technically world-class.”

**Judges' comment**





## Mizen Head Footbridge

Structural Designer: RPS Consulting Engineers

**Client:** Cork County Council, Failte Ireland,  
Commissioners of Irish Lights

**Architect:** RPS

**Contractor:** Carillion Irishenco Ltd.

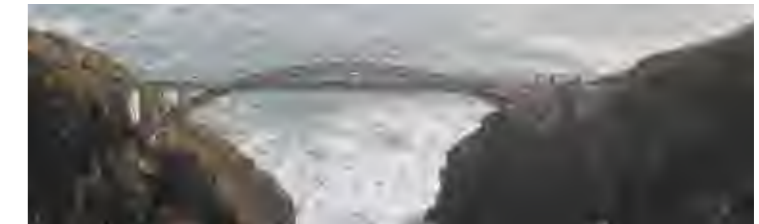
Location: County Cork, Republic of Ireland

“The challenge was how to replace a fine 100 year old reinforced concrete footbridge in a wild and almost inaccessible position on the extreme southwest corner of Ireland. The engineers came up with an ingenious method of using the old bridge to provide temporary support to the construction of the new one.”

### Judges' comment

Mizen Head Footbridge is located at the south westerly tip of Ireland. It spans 50m across a dramatic sea gorge. The original structure was built in 1909. It was considered to be the longest reinforced concrete bridge of its type on completion.

The structure is a through arch comprising arch ribs supporting a pedestrian bridge deck. In 2010/11 the original structure was carefully removed and a new, replica structure in reinforced concrete was constructed. The successful completion of the project has preserved a landmark structure on the coast of Ireland for future generations to enjoy.





## Media City Footbridge

Structural Designer: Gifford, part of Ramboll

**Client:** Peel Holdings

**Architect:** Wilkinson Eyre

**M&E Engineers:** Atkins Bennett

**Contractor:** Balfour Beatty

**Other sub-contractor:** Rowecord Engineering Ltd

**Location:** Manchester, United Kingdom

“A graceful and well engineered bridge that displays structural flair in the concept and the details; a delightful testament to the art of structural engineering.”

**Judges' comment**

The Media City Footbridge is an asymmetric cable stayed swing-bridge providing pedestrian access over the Manchester Ship Canal into the heart of the new Media City Development. The footbridge has been designed to respond to the particular geometrical constraints of its location; it is highly contextual and provides a spectacular southern pedestrian gateway to the development.

The bridge also addresses anticipated future development at Trafford Wharf to the south and in conjunction with the existing Lowry Bridge enhances pedestrian links for the area as a whole, celebrating the heritage of the canal as a living amenity.





## Redhayes Bridge

Structural Designer: Parsons Brinckerhoff

**Client:** Devon County Council

**Architect:** Design Engine Architects

**Contractor:** Carillion

**Other sub-contractors:**

Design check: Atkins

Fabrication/erection: Rowecord Engineering Ltd

Substructures: Construction Services Southwest

**Location:** Exeter, UK

“This is a delightful, slender and elegant arch bridge whose design responds well to the constraints inherent in constructing over a busy motorway.”

**Judges' comment**

Redhayes Bridge is a £2.95m structure crossing the M5 motorway at Junction 29, near Exeter. It spans 100m and comprises two inclined steel arches from which the steel deck is suspended via cables. The conceptual design of the scheme focussed on achieving a dramatic structure whilst delivering an elegant, efficient and cost-effective solution.

The design was developed to maximise pre-fabrication of the bridge, minimising motorway closure time. Architectural enhancements were embraced to benefit the experience of motorway users and pedestrians and cyclists crossing the structure, creating a distinctive reference point for Exeter and the wider South West region.





## Dublin Airport Terminal Two

Structural Designer: Arup

**Client:** Dublin Airport Authority

**Architect:** Pascall + Watson Architects

**M&E Engineer:** Arup

**Contractor:** Concrete: Laing O'Rourke

Steel: Watson Steel Structures Ltd

Façades: Martifer

**Location:** Dublin, Republic of Ireland

“Working within such a challenging environment with its varied and significant constraints, it is a testimony to the skills of the engineers that they were able to develop the elegant and practical solutions that underpinned the success of this impressive project.”

**Judges' comment**

The new 75,000m<sup>2</sup> Terminal 2 is the largest single component of a €1.2bn development program at Dublin Airport. It is designed to cater for an increase in terminal capacity of 10 million passengers per annum.

The terminal serves 19 aircraft from a 395m long pier. Unusually, arriving passengers emerging from the customs hall share the same space as those checking in below so as to experience the spatial drama of Terminal 2. Another novel feature of the terminal is the provision of US Customs and Border preclearance in the pier itself.





## Khan Shatyr Entertainment Centre

Structural Designer: Buro Happold

**Client:** Sembol Insaat

**Architects:** Foster + Partners / Linea  
Tusavul Architecture / Gultekin Architecture

**M&E Engineers:** Buro Happold & Vemeks  
Engineering Ltd

**Contractor:** Sembol Insaat

**Other sub-Contractors:**  
ETFE - Vector-Foiltec: Steelwork - SAMKO  
Group & Arce Engineering: Cable Net -  
Montage-Service & Teschner Ingenieure  
**Location:** Astana, Kazakhstan

“This iconic structure has not only created a fitting landmark in Kazakhstan’s new capital, but was completed to a tight programme in a very harsh climate, and fulfils its function with great efficiency.”

**Judges’ comment**

Rising majestically from the Kazakhstan steppe, the Khan Shatyr Entertainment Centre is a vast, soaring surface of ETFE-captured air enclosing a temperate oasis for the people of Astana.

The Entertainment Centre provides a much needed place to meet, socialise and shop in Kazakhstan’s new showpiece capital despite the harsh external climate where temperatures range from -40°C to + 40°C. The asymmetric cone shaped cable net roof covers an area of 12,800m<sup>2</sup> supported only by a central steel tripod. The erection of the 150m high tripod was achieved in a dramatic single lift.





## NMIT Arts and Media Building

Structural Designer: Aurecon

**Client:** Nelson Marlborough Institute of Technology

**Architect:** Irving Smith Jack Architects

**M&E Engineer:** Aurecon

**Contractors:** Gibbons Construction, Hunter Laminates, Arrow

**Location:** Nelson, New Zealand

“The innovation in the seismic resisting systems together with the careful design and detailing have created an exemplar building.”

**Judges' comment**

As a showcase building the NMIT Arts and Media Building is the first in a new generation of multi-storey timber buildings. It employs an advanced earthquake design to avoid damage which is a world first for a timber building. This revolutionary earthquake technology has been developed by Aurecon structural engineers and is based on the latest timber research from the University of Canterbury.

The building also employs several new timber structural systems for floors, beams and columns that truly demonstrate the ability of structural timber for use in multi-storey construction.





## Elsinore Culture Yard

Structural Designer: Søren Jensen Consulting Engineers

**Client:** Elsinore Municipality

**Architect:** Aart Architects

**M&E Engineer:** Søren Jensen Consulting Engineers

**Contractors:** Pihl A/S, HSM Industries, ENCO, Kai Andersen

**Location:** Elsinore, Denmark

“A fine example of what can be achieved by a versatile team of structural engineers demonstrating flair and excellence in the use of new and existing materials, dynamics, buildability, specialised construction methods and a respect for their heritage.”

**Judges' comment**

Located in Elsinore, Denmark the project is a conversion of an old shipyard to a new Cultural Yard with library, concert hall and other facilities. The project included complete conversions of two buildings and the addition of a further three.

Essential for the success of the project was the structural assessment and creative reuse of two existing buildings.

The new buildings rely in their radical design and fast execution on state-of-the-art structural analysis and fabrication methods.

The resulting architecture is inspiring and has successfully revitalised the formerly derelict site.





## Bramall Learning Centre

Structural Designer: Gifford, part of Ramboll

**Client:** Royal Horticultural Society

**Architect:** EcoArc

**M&E Engineer:** Gifford, part of Ramboll

**Contractor:** William Birch and Sons Ltd

**Location:** Harrogate, UK

“This building’s success stems from intensive early design studies and care throughout the design process to achieve a highly sustainable result without compromise to appearance or function.”

### Judges’ comment

This is an educational building for school children, academic botanists and society members. It contains three flexible teaching spaces and the Northern Library of the RHS. The site is at Harlow Carr Gardens which are internationally renowned and one of the most visited of the RHS gardens.

Since completion the building has won many awards, and has exceeded expectations in terms of its design quality, manifested in how a zero-energy, highly sustainable building can also be of a high architectural merit and integrate into a very sensitive garden setting.





## Las Arenas Bullring

Structural Designer: Expedition Engineering Ltd and BOMA

**Client:** Metrovacesa (formerly Sacresa)

**Architects:** Rogers Stirk Harbour & Partners and Alonso Balaguer y Arquitectos Asociados

**M&E Engineers:** BDSP Partnership Ltd and JG Asociados

**Contractor:** Dragados S.A.

**Other Consultants:** TG3 (cost consultants)

**Location:** Barcelona, Spain

“Engineering has once again rejuvenated an important heritage site. What is remarkable about this project is how the elegant and visually legible engineering contrasts alongside the existing facade and is a recognisable feature of the new spaces created within it.”

**Judges' comment**

Barcelona's old bullring has been transformed into a major new arts, entertainment and retail centre that acts as both a gateway into the city from the west and a landmark for the Placa Espanya transport interchange.

Beyond the multitude of shops, bars and restaurants, Las Arenas includes a 12-screen cinema, a health spa/gym, a rock music museum and, at its uppermost level, a dome-covered performance space intended for exhibitions and other cultural events.

The project team have worked together to create a striking new landmark that celebrates both the historic facade and the stunning new elements within.





## London 2012 Velodrome

Structural Designer: Expedition Engineering

**Client:** Olympic Delivery Authority

**Architect:** Hopkins Architects

**M&E Engineers:** BDSP Partnership

**Contractor:** ISG

**Location:** London, UK

“The new London 2012 Velodrome impressed the judges at so many levels. Above all it is a supremely elegant synthesis of engineering and architecture; the beauty of the form, the lightness of the doubly curved cable net roof, the simplicity of the detailing. Somehow everything comes together in a single bold yet simple whole that represents truly sustainable design.”

**Judges' comment**

The Velodrome is a world-class venue which intelligently answers questions of function, beauty, sustainability, buildability and value; it has been delivered by a truly integrated design and construction team.

Inspired by the dynamism and geometry of the track and the engineering rigour of high performance bikes, the team set out to design a building that made no distinction between architecture and engineering.

The 6000 seat Velodrome has a 13,000 square metre roof which is supported by a doubly-curved cable net stressed between a perimeter ring beam which is fully-integrated with the supporting structure. This impressive outcome belies the hugely-complex analysis that was required to 'make it work'.





## Aviva Stadium

Structural Designer: Buro Happold

**Client:** Lansdowne Road Stadium Development Company

**Architect:** Populous and Scott Tallon Walker Architects

**M&E Engineer:** ME Engineers

**Contractor:** SISK

**Other sub-contractors:**

Steelwork: SIAC Butlers/Cimolai JV.

Concrete: Kildownet

Substructure: ASCON

Pre-cast concrete: Banagher

Secondary Steelwork: OMC

Rail corridor: McNamara-Somague

**Location:** Dublin, Republic of Ireland

This project involved a 51,700 seat rugby and football stadium in Dublin, Ireland with unique, site responsive geometry optimised for a wide variety of complex and altering constraints. The bowl shape, the roof and the façade envelope were seamlessly developed using parametric modelling to create the form that is unique to the Aviva Stadium.

The engineering design includes an innovative steel roof with a unique horseshoe truss, over 20 major transfer structures, a dramatic RC frame geometry with cantilevering floor plates and inclined blade columns and six RC stability cores resisting the very large overturning forces.

“Aviva Stadium has beyond doubt given Dublin a highly distinctive and innovative international sporting arena. Its shimmering, largely transparent form sits comfortably, yet boldly on the historic Lansdowne Road site.”

**Judges' comment**





## Port Phillip Estate

Structural Designer: Arup

**Client:** Giorgio Gjergja

**Architect:** WoodMarsh Architects

**Contractor:** Ian Fleming

**Other sub-contractor:**

Rammed earth walls: Earth Structures

**Location:** Red Hill, Australia

“A flowing design theme with contextual sensitivity; the perfect blend of ancient and modern technology with well-considered detailing. A masterful solution for a modern winemaking facility, well fitted to its environment.”

### Judges' comment

The Port Phillip Estate Winery, located in Red Hill, Victoria, Australia represents an iconic landmark that complements the natural environment. Sited just below a ridge, the building unfurls across the site, spiralling out of the ground and rising to form a 100m ribbon wall.

The building houses wine making/storage facilities, a cellar, a restaurant, and 6 luxury accommodation units. Key to the form/fabric is the ancient and rustic rammed earth walls. Walls are 400mm thick, and rise to 12m. Rammed earth has been used both as structure and cladding.

It's an environmentally sensitive response that provides an uncompromising architectural landmark which encapsulates the essence of wine making.





## Westgate Bridge Suspended Access Platforms

Structural Designer: Alan White Design Ltd

**Client:** APS Contract Services

**Contractor:** APS Contract Services

**Location:** Melbourne, Australia

“The West Gate Bridge Suspended Access Platforms represent an example of structural engineering design at its best. A clear understanding of the problem and its constraints, tackled by inventive and imaginative thinking, resulted in a practical, eminently workable solution, the cost of which is an order of magnitude lower than that of more conventional methods. This is a classical case which serves to demonstrate the immense value structural engineers can bring by adopting a well-informed and pragmatic approach to problem solving.”

**Judges' comment**

In the project to widen the M1 motorway in Melbourne from eight lanes to ten, the strengthening works required to the Westgate Bridge were critical.

The West Gate Bridge Alliance commissioned APS to provide access to the concrete approach viaducts, the steel box girder sections and the concrete soffits at the bridge piers. The design of these suspended platforms was performed by Alan White Design Ltd using a modular space frame access system which was designed, configured and modified to suit the particular aspects of this project.





## Wales Institute for Sustainable Education

Structural Designer: Buro Happold

**Client:** Centre for Alternative Technology (CAT)

**Architect:** Pat Borer and David Lea Architects

**M&E Engineers:** Fulcrum Engineering

**Contractor:** Frank Galliers Ltd

**Other sub-contractors:** Rowland Keable, Andy Simmonds, Paul Gillieron, Limetec, Quickseal, Bath University, Bowen Consultants

**Location:** Powys, Wales, UK

“The WISE development is a great advertisement for the outstanding achievements of CAT and acts as an inspiration for not only the students that will use it but for the building industry as a whole.”

**Judges' comment**

The Wales Institute for Sustainable Education (WISE) building is a flagship education centre and exemplar of sustainable construction for the Centre for Alternative Technology (CAT) to host residential courses for Masters in Sustainable Building and Part II Architecture Degrees.

The 1880m<sup>2</sup> centre includes a 200 seat lecture theatre, seminar rooms, workshops, and 24 study bedrooms. Ever since CAT was founded 30 years ago, it has been pioneering low energy solutions in construction and operation. The WISE building brings together these years of experience into a large scale educational building at the cutting edge of low energy construction.





## London 2012 Velodrome

Structural Designer: Expedition Engineering

**Client:** Olympic Delivery Authority

**Architect:** Hopkins Architects

**M&E Engineers:** BDSP Partnership

**Contractor:** ISG

**Location:** London, UK

“The Velodrome dispels all myths that structural engineers have little influence on ‘greening’ a building. Sustainability has simply been achieved through efficiencies rather than gimmicks and extravagance. It is hoped that this stunning piece of engineering will inspire all those engineers out there to tackle the low carbon agenda through structural innovation.”

**Judges’ comment**

The 6000 seat London 2012 Velodrome will serve as an Olympic and Paralympic stadium for track cycling during the Games.

The venue is recognised as being the most sustainable on the Olympic Park, and has been described by the ODA Head of Sustainability Dan Epstein “.... [as] the shining beacon of sustainability... [it is] incredibly resource and energy efficient”.

According to London 2012’s “Learning Legacy”, the Velodrome is an excellent example of a building that has optimised the use of materials, and minimised the environmental and social impact of the materials that were used. On track for a BREEAM ‘Excellent’ rating, it also has other significant credentials such as the 29% recycled content in the building, natural ventilation, extensive use of natural daylighting and exceeding Part L (2006) requirements by some 30%.





## Open Academy

Structural Designer: Ramboll

**Client:** Norfolk County Council

**Architect:** Sheppard Robson

**Civil Engineers:** WSP

**M&E Engineers:** WSP

**Contractor:** Kier Eastern

**Other Contractors:** KLH UK (Timber supplies)

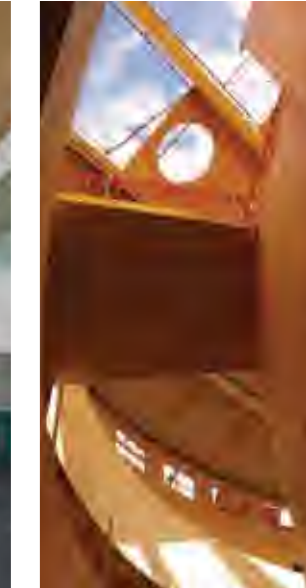
**Location:** Norwich, UK

“Sustainable design needs to be brought into the mainstream by model projects that demonstrate repeatable green innovation that satisfies the architectural vision and the Client’s budget. The Open Academy certainly does this by delivering a stunning building that expertly showcases timber modular construction. Praise is also due to the Client for driving the sustainability agenda.”

**Judges’ comment**

The Open Academy in Norwich is a £20m new school building. The building has three storeys and houses classrooms, a theatre and a sports hall. The total floor area is over 9,500m<sup>2</sup>, at the centre of which is a glulam tied arch roof that forms an atrium.

What is special about the Open Academy is that the entire superstructure of this sizeable development is constructed out of cross-laminated timber panels. The finished development represents the UK’s largest solid timber panel building. It uses over 3,500m<sup>3</sup> of timber and can be argued to have a negative embodied carbon footprint.





## Bridge of Dreams

Structural Designer: Fast + Epp

**Client:** The Town of Princeton, BC

**Design-build contractor:** StructureCraft Builders Inc.

**Location:** Princeton, Canada

“A masterful design with contextual sensitivity. Superb realisation of a well-crafted concept. An economical and sustainable design with delightful detailing. An exemplar of community revitalization.”

### Judges' comment

The early 20th century timber Bridge of Dreams across the Tulameen River in the town of Princeton was the final link in the Kettle Valley Railroad and integral in sustaining the development of the British Columbia interior.

The new two-span structure utilises the abutments and pier of the original bridge. The owners wanted to reference the historic bridge's strong timber presence in the community, and the winner of the design-build tender presented two interpretations to honour this. They unanimously chose the double tied-arch timber scheme, which also complemented the presence of a more recent tied-arch steel highway bridge built immediately adjacent this site.



## Sponsors/Supporter



### Sponsors of The Award for Sports or Leisure Structures

Beale and Company is a niche commercial law firm which specialises in advising the construction and engineering industry in the UK and Overseas.

They advise on all aspects of the construction process including:

- professional appointments
- building and civil engineering contracts and sub-contracts for all types of procurement
- collateral warranties
- bonds and guarantees
- insurance
- environmental and pollution issues
- health and safety
- dispute avoidance and dispute resolution



### Sponsors of The Award for Arts or Entertainment Structures

Griffiths & Armour is a leading independent firm of Insurance brokers and risk managers, with an outstanding reputation throughout the United Kingdom and Ireland.

They have developed and delivered innovative professional indemnity insurance solutions to the construction industry for over 70 years and currently provide a bespoke service to over 3,000 firms including many key players in the consultancy sector.

Their vast experience of corporate risk programmes for major construction companies means that Griffiths & Armour are uniquely placed to provide objective and independent advice on project risks and associated insurance issues.

This is underpinned by a detailed understanding of the exposures flowing from the construction professions.



### Sponsors of The Award for Small Practices

Walker Dendle is dedicated to preserving an exceptional quality of professionalism and service in our role as a technical recruiter with a view to establishing long-term relationships. It has more than 20 years experience working with structural engineering consultancies in London, gained by founding director Martin Dendle prior to forming Walker Dendle Technical Recruitment in 2004.

The Walker Dendle client portfolio embraces all manner of consultancies in structural engineering including a close association with many of the niche consultancies that have recently formed.



### Sponsors of The Award for Commercial or Retail Structures

Warners Midlands PLC is a high quality magazine, brochure and catalogue printer that specialises in the short to medium run market.

They are a long established, family owned company employing 300 people, and are able to offer their customers access to state-of-the-art equipment that ensures that they can offer high quality printing services at a competitive rate.



### Sponsors of The Award for Pedestrian Bridges

The Structural Engineer is the Institution's flagship publication - distributed to members and non-member subscribers worldwide. Re-launching in January 2012, The Structural Engineer will continue to reach an audience of more than 25,000 industry and academic professionals every month.



### Supporters of The David Alsop Sustainability Award

Each year millions of people from around the world feel the effects of natural disaster and conflict. RedR is an international charity that believes, if the right people with the right skills are available to respond to natural disaster and conflict, more lives can be saved. RedR supports this ideal by delivering essential training to relief workers in everything from water, sanitation and hygiene to logistics and project management. They also provide skilled professionals, engineers and other technical experts to humanitarian programmes around the world.

RedR has recently expanded its work in South Sudan and also Kenya enabling them to reach those affected by the East Africa Crisis. RedR would like to take this opportunity to thank all their supporters, who enable them to continue their vital work. The Institution also recently formalised its commitment to RedR's programmes here in the UK and worldwide, by becoming a RedR Patron in September this year.

