



Awards

2016

Celebrating

10 Years

Winners

Headline Sponsors

Without CEW Award entrants we could not celebrate how great Welsh construction is, but without our sponsors there is no event, no party and no showcasing of industry talent. So, we are enormously grateful for the support of Network Rail, Costain and ABC Electrification in this, the tenth anniversary of the CEW Awards. All of them are tremendous supporters of Wales, its supply chain and the best practice principles advocated by CEW and the wider industry. Thank you for your commitment and for being our headline sponsors of the 2016 CEW Awards.

For all three companies, collaboration is just 'how we like to work' – in partnership with our customers, with our own people, with businesses and suppliers, with our neighbours and the natural environment. Wherever we work, we create real legacies for future generations, in terms of skills, knowledge, aspirations and an improved environment.



Network Rail is the owner and operator of Britain's railway network and provides train operating companies with track access. It runs, maintains and develops the infrastructure, including stations, track, signalling and level crossings, as well as plans for future capability.

As a 'not for shareholder dividend' company – all profits are re-invested to improve the railway. Responding to unprecedented demand, Network Rail is undertaking the biggest investment in Wales' railway since Victorian times, including the electrification of the South Wales Mainline.

Electrifying this key railway route will mean faster, greener, quieter and more reliable journeys for tens of thousands of passengers.



Costain is one of the leading UK engineering companies, working in the energy, water and transportation sectors. They are justifiably proud of their track record in Wales including Porth Relief Road, Church Village Bypass and Port Talbot Harbour Way.

They are currently delivering Section 2 of the Heads of the Valleys road and the early stages of the M4 Corridor around Newport, M4 Junction 28 and Brynglas Tunnels refurbishment projects. Costain is proud to have received several CEW awards, including the UK Best of the Best Award for Porth Relief Road in 2007.



ABC Electrification Ltd. (ABC EL) was formed by Alstom, Babcock and Costain, to work in partnership with Network Rail on the UK rail electrification programme. ABC EL is currently working on the West Coast and London-North West mainlines, Edinburgh to Glasgow and sections of the Great Western Electrification Programme between Swindon and Swansea.

As one of the largest electrification contractors in Europe, we are delivering electrification to more than two thousand miles of the UK's rail system. ABC EL combine design, engineering and delivery expertise across all rail electrification activities and are trusted with the most complex and demanding schemes.

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Introduction



Congratulations to the winners and highly commended entries in our 2016 CEW Awards.

Ten years of CEW Awards has allowed us to gather indisputable evidence that best practice works and we will be using that evidence over the coming months. The 2016 award schemes are worth a total of £4.5bn; £1bn was spent within 20 miles of their sites, 350 Welsh SMEs have been employed and 78% of the spend remains in Wales and there are often direct positive outcomes for local people from 300 charities supported or 450,000 trees planted to restoration of wetland and 2,000 apprenticeships established.

It is proof that what CEW advocates is not just the right way to create the Welsh built environment we need: it is aligned with Welsh Government policy now and for Future Generations. Planning, collaborating, procuring and leading

in the manner exemplified by our winners is the way we can create a resilient, prosperous and responsible Wales.

This year different trends are emerging. BIM is increasingly used and we can see the benefits – particularly where 3D visualisation allows stakeholders and local people to understand a scheme. We saw more emphasis on training and workforce development: Costain stands out for its SME academy projects and both our SME winners were rewarded on the back of their efforts to develop and care for their staff.

Almost all of our award winners demonstrate a unity of purpose and efficiency within construction: coBuilder (facilitating BIM), The Agilis School Model (reducing time and costs while promoting quality) are good examples. Our frameworks are promoting unity: SEWSCAP and North Wales Construction Framework have won largely because they are creating shared processes, shared knowledge and a shared sense of purpose.

Standards are higher too, but the manner in which Welsh construction raises the bar is changing. CEW stakeholders, all the CEW Award entrants and the winners this year are 100% committed to value over price, collaboration over adversarial working. This is the only way that Wales will create a built environment that is sustainable, low carbon, looks good and benefits Welsh people.

What we need to do next is make sure it remains that way.

Milica Kitson

Chief Executive, Constructing Excellence in Wales

Award Judges

Without the support and commitment of our judges we would not be able to run the awards every year. We would like to express our sincere thanks to each of them, they are the unsung heroes for our awards programme.

David Benson

Director of Estates & Facilities,
Cardiff Metropolitan University

Mark Bodger

Director of Strategic Partnerships,
CITB Wales

Mike Edmonds

Consultant, Altmor Partnership Ltd

John Edwards

Director, Edwards Hart Ltd

Andrew Gibson

Director, Cushman & Wakefield

Chris Gray

Managing Director,
C D Gray Associates

Vince Hanly

Director, VH Procurement
Consulting Ltd

Keith Jones

Director, Institution of Civil Engineers
Wales Cymru

Professor Phil Jones

Chair of Architectural Science,
Welsh School of Architecture,
Cardiff University

Rhodri-Gwynn Jones

Recently retired Director,
CECA Wales Ltd

Colin King

Director, BRE Wales and SW

Simon Lander

Partner, ChandlerKBS

Paul Lavelle

Associate Director, Faithful+ Gould

Phil Lumley

Director, KPL Associates Ltd

Andrew Marchant

National Executive Officer,
SEC Group Wales/Cymru

Tony Norris

Partner, Head of Infrastructure &
Construction, Geldards LLP

Jane O'Leary

Operational Manager Property, Vale
of Glamorgan Council

Geoff Ogden

Director Highways & Transportation,
Atkins

Rob Pannell

Managing Director, Zero Carbon Hub

Ioan Prydderch

Partner, Property and Construction
Division, Hugh James

Daniel Rossiter

BIM Consulting/Training Manager,
BRE Wales and SW

Stella Saunders

Construction Management,
The City of Cardiff Council

Andy Sutton

Associate Director,
BRE Wales and SW

Professor Andrew Thomas

Director, Diligentia Global Limited

Nick Tune

CEO, coBuilder UK

Pierre Wassenaar

Divisional Director, Stride Treglown
Architects

Andrew Wedlake

Construction Director, Contract
Services (South Wales) Ltd

Integration & Collaborative Working Award

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HUGH | JAMES
 Understanding low, understanding you

Judges: Mike Edmonds Simon Lander Andrew Wedlake

North Wales Construction Framework

The North Wales Construction Framework (NWCF) was set up to aid the delivery of the 21st Century Schools programme in North Wales, and is the first such collaborative framework in the region.

“The judges were impressed with the speed of change and the degree of integration that has been achieved in just two years.”

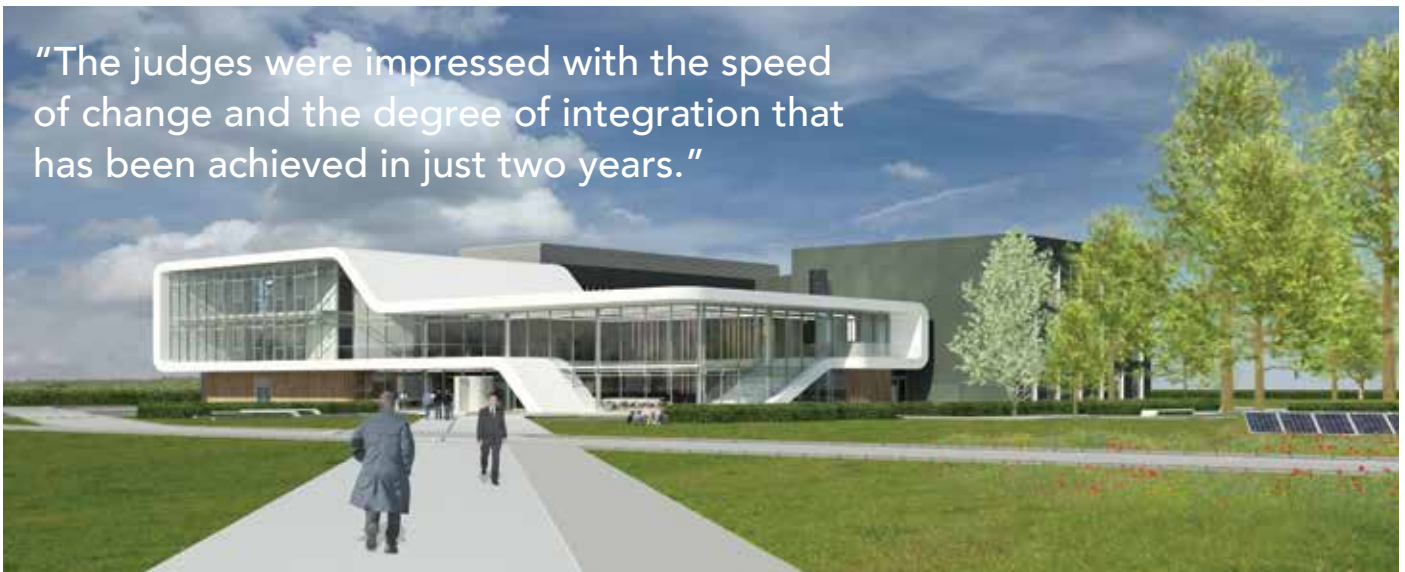


Image by FaulknerBrowns Architects

Denbighshire, Gwynedd, Isle of Anglesey, Flintshire, Conwy and Wrexham councils worked with six contractors and other construction bodies to establish a structure based on openness and shared processes, with the aim of improving value for money and countering the adversarial culture that had previously afflicted working relationships.

Already, a wind of change is blowing through the region as contractors and clients recognise and accept the benefits of collaboration. Widespread sharing of knowledge, experience and data through integrated working groups has helped cut through the secretive habits of the past, unleashing an information flow that is of benefit to everyone. The BIM special interest group, for example, is actively working to spread knowledge and understanding of the benefits of BIM to asset management.

Stakeholder forums reach out beyond the core framework members to embrace colleges and other industry partners; the judges singled out the mechanisms put in place to engage and upskill the local supply chain. The process of standardisation is well under way, members are working together to establish common performance metrics and KPIs (for example). A strong commitment to continuous communication and engagement should ensure that these efforts do not dwindle with time.

The judges were impressed with the speed of change and the degree of integration that has been achieved in just two years. There have been several significant impacts on project delivery. Procurement processes are flattening out, helping to cut time and costs; employers information requirements (EIRs), for example, have been standardised across the six local authority areas.



There has been a general shift towards progressive commercial arrangements, such as wider use of fair payment practices and collaborative forms of contract (for example NEC Option C). Two-stage tender processes are making ground against cost-led bidding, and transparency of works in the pipeline has helped clients and contractors alike to plan and focus resources more efficiently. Innovative solutions and best practice gleaned from shared knowledge are being incorporated into designs at an early stage and Early Contractor Involvement (ECI) is becoming the norm. Shared learning and close working relationships are helping to maximise the social benefits delivered through individual projects.

There is no doubt that the NWCF has succeeded in changing the construction landscape in this part of Wales and it is hoped that other regions will follow its example.

SME of the Year 1-50

Judges: Keith Jones Andrew Marchant Jane O’Leary

Award Sponsored by



Cambria Consulting Ltd

From its inception in 2011, engineering consultancy Cambria Consulting has stood out from the crowd in two fundamental ways.



Firstly, the Cardiff-based company puts people at the heart of its service. Secondly, the founding directors were determined to redefine the role of the engineer in construction projects. The result is a dynamic 20-strong organisation that is able to claim an exceptionally high customer satisfaction rate with 70% repeat business; as clients keep coming back for more.

Putting people first is a common claim, but Cambria truly walks the walk. The company was set up with a flat structure that rates everyone’s contribution as equal, whether it is opening the post, managing a project or designing a school substructure. Cambria understands the basic truth of teamwork – that if one part fails, all parts fail. It also grasps the importance of its staff’s working relationships with clients as the glue for effective and enduring partnerships. Successful results and satisfied customers therefore depend on knowledgeable

and enthusiastic staff, which explains the high priority placed on training and professional development.

Everyone has a training plan designed to maintain and develop their skills and personal qualities; and everyone looks out for their younger colleagues. The usual measures of success, including Investors in People accreditation and a 100% CSCS record, are bolstered by in-house mentoring, a marketing strategy that embraces all staff, a lively social calendar and teambuilding events. The judges were impressed by the mutual support and co-operation demonstrated by the staff and the palpable sense of competence, passion and commitment infusing what was described as ‘a very strong team’ where very little goes wrong.

Allied to this is Cambria’s determination to make the engineer’s role more involved and interactive. It is natural that a new young engineering consultancy would be among the earliest adopters of new construction technologies and BIM, but Cambria works hard to explain to customers the value of early engineering involvement and the reasoning behind its suggested techniques.

Personal communication skills are at a premium – talking face to face is preferred over emails. Collaborative working is a given as the team works with clients and contractors to develop best practice and high quality solutions. It is no surprise that Cambria has become a familiar face on CEW exemplar projects, and the company is a worthy winner of the SME Award.

SME of the Year 51-250

Judges: Keith Jones Andrew Marchant Jane O’Leary

Award Sponsored by



Andrew Scott Ltd

Established in 1870, Andrew Scott is one of Wales’ oldest construction companies.



The independently owned business employs 220 staff - 97% of whom live in south Wales. Recent times have not been easy for smaller construction businesses, but Andrew Scott has managed to thrive, with the last three years seeing a rise in profitability of 45%.

One prime reason for its ongoing success is the value it places on customer satisfaction. Rigorous KPIs and customer feedback sessions held before, during and after each project help to ensure project delivery is aligned with the customer’s objectives. The company readily adjusts its approach, processes and behaviour to improve performance, if required. Collaborative working is a given and Andrew Scott is clearly a team player; having been reappointed to three collaborative frameworks, including SEWSCAP.

Andrew Scott is a company that cares about people, and the judges were particularly impressed by its commitment to health and safety. In 145

years, there have been no fatalities on any of its projects and its accident frequency rate of 0.12 is well below industry norms. This is achieved through an exceptional safety culture built around its own version of the four Cs: Co-operation, Communication, Competence and Commitment.

Similarly impressive is the provision for training, development and work experience, applied through a raft of schemes, including CPD programmes, apprenticeships, paid summer placements and graduate sponsorship. Staff welfare is catered for in numerous people-friendly initiatives such as flexible working, employee consultation schemes and a development review process designed to align personal aspirations with the needs of the organisation. It all adds up to a well-trained and content workforce, attested to by the 96% staff retention rate.

The company is keen that its construction operations deliver long-lasting social and economic value; and its effective approach to implementing location-specific benefits resulted in an invitation to address the Consortium of Local Authorities in Wales (CLAW). In addition, the company is generous about sharing its ideas and experience; its BIM coordinator, for example, is sharing the company’s technical expertise by providing college students with practical experience in using Revit and Navisworks software.

Thanks to its people-centric ethos, Andrew Scott is a fine example of a responsible, progressive SME. Pleasing its customers, caring for staff, boosting local communities, supporting young trainees and exchanging ideas with industry peers combine to make it just the kind of organisation that the Welsh construction industry needs to progress forward.



SCOTT

Sustainability Award

Judges: John Edwards

Colin King

Rob Panell

Award Sponsored by

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B&Q Eco Learning Store - Powell Dobson Architects/BAM

The B&Q Eco Learning Store at Cyfarthfa Retail Park in Merthyr Tydfil was conceived as a model of sustainability, aiming to achieve lower operational costs and significantly better environmental performance compared to other B&Q stores.



It is the culmination of a unique collaboration between client, contractor, consultants, manufacturers, suppliers and academia, working together to develop a new, sustainable retail store specification based on B&Q's 11-point sustainability criteria.

The resulting design is an impressive amalgamation of innovative technologies and advanced sustainability features. At its heart, is the Tata Transpired Solar Collector (TSC) system, which harvests heat from the sun to warm the store's interior, cutting energy bills and lowering CO₂ emissions. The low-cost technology is expected to cut the annual heat load by 34% and pay for itself within 10 years.

Other features include energy-efficient LED lighting with daylight dimming, rainwater harvesting tanks, PV and solar water heating, destratification fans and draught lobbies. A fabric first approach helped produce a structure with 31% less embodied carbon than the average retail facility. A pleasing extra is the Sky Garden – a 'green' roof supporting a biodiverse mix of 38 species of wildflower.

The judges were impressed by Powell Dobson's material selection, prioritising durability and longevity and making use of locally sourced materials wherever possible. A design for deconstruction process sought to identify and avoid materials that would prove difficult or uneconomic to recycle at the end of the building's life. The project also pioneered use of independently audited timber in retail construction.

One of the most appealing aspects of the project is the extent of the multisector collaboration. B&Q and retail park operator, Hammerson, provided enthusiastic leadership. For Tata Steel, the project was an opportunity to test its TSC system in a retail environment. Cardiff University was interested in monitoring the store's sustainability performance and assessing the format's potential for replication as part of its Sustainable Building Envelope

Demonstration (SBED) project. The main contractor BAM Construction had experience of the "One Planet" programme through working with B&Q elsewhere in the UK. This experience was used to reinforce BAM's commitment to sustainability.

All in all, the judges viewed the project as an excellent demonstration of the benefits of design and build. The design team worked closely with the supply chain in modelling, testing options and fine-tuning specifications. As a trailblazing exercise, all the elements came together to create a building with many useful lessons for the participants, the retail sector and the wider construction industry.



Health & Safety Award

Judges: Mark Bodger Chris Gray Stella Saunders

Award Sponsored by



Kier Construction Western & Wales

When Kier Construction Western & Wales say they take safety on their building sites seriously, they really mean it.



“The judges praised Kier’s strategic, focused approach to health and safety.”

In the past five years; and a total of 2.5 million man hours of working, there have been no reportable accidents on any of their projects. It’s an astonishing record that immediately caught the judges’ eye.

The key to this success is Kier’s understanding that health and safety cannot be all about ticking boxes and following a prescribed list of actions. It’s about beliefs and behaviour. Kier ensures that each and every member of its staff takes responsibility for their own and their colleagues’ wellbeing. From the top team down, everyone buys into the safety-first ethos. Staff are empowered to make on the spot decisions about safety, in the knowledge they will be supported. When things do go wrong, there is no blame game – just an honest assessment of what happened and what lessons can be learnt.

Kier’s approach is based on its parent group’s Positive Safety Leadership programme. A central part of this is the behavioural safety programme that trains senior managers and supervisors to identify and reduce, or avoid potential risks in the working environment and finished building. For example, designs are scrutinised and steered to include safer practices, such as more use of prefabricated elements or replacing ductwork and air handling units with natural ventilation. This process is assisted by use of BIM and 3D visualisation to model the impact of different design elements or to help ensure safer deconstruction.

The supply chain is also included in the safety culture. Regular suppliers must be compliant with the Safety Schemes in Procurement (SSIP) scheme, for instance; and training and assistance is provided by Kier to achieve this where necessary. Kier has trained more than 620 subcontract supervisors on the CITB two-day Site Supervisors Safety Training Scheme – at no cost to the contractors.



The behavioural approach is underpinned by solid processes to ensure a structured approach to safety. Before works commence on individual projects, for example, the team works with the safety department to build a health and safety strategy into the construction phase plan. Risk assessment and method statements are put in place for all work activities. Safe and unsafe acts (SUSA) discussions are recorded and kept for study.

The judges praised Kier’s strategic, focused approach to health and safety, its continuing efforts to improve its practices, and willingness to share lessons learned with the wider industry.



Value Award

Judges: Mike Edmonds Simon Lander Geoff Ogden

Award Sponsored by



Cyfarthfa Retail Park Redevelopment - Powell Dobson Architects/BAM

Value is all about the real worth of a built asset to its owners, occupiers, surrounding community and local economy, compared to the cost of building it.



“All stakeholders in the project will reap rewards disproportionate to their input.”

The project to build the B&Q Eco Learning Store at Cyfarthfa Retail Park has returned on its investment in a multitude of ways.

The client, B&Q, has not only acquired a retail store with significantly reduced energy bills, carbon emissions and operating costs, it has secured a sustainable design template that can be rolled out to other stores, spreading the savings and environmental benefits. Thanks to the involvement of Cardiff University's Sustainable Building Envelope Demonstration (SBED) project, B&Q's 11-point sustainability criteria, as realised by the Eco Learning Store, have been validated and can stand as a viable model of best practice that can be replicated elsewhere.

All stakeholders in the project will reap rewards disproportionate to their input. The contractor, BAM, and consultant team, led by Powell Dobson Architects, have benefited from the focus on core sustainability values and acquired experience in applying innovative techniques that could transform their future projects. In particular, Powell Dobson Architects has positioned itself as a leading proponent of low cost transpired solar collection, which has the potential to drastically reduce heat loads in buildings. Tata Steel, meanwhile, has secured validation for the efficacy of its Transpired Solar Collector in a retail environment, which can only boost its commercial prospects.

The local community is also a winner. A selection of locally sourced materials earned income for local suppliers, more than half the subcontractors came from within a 30-mile radius and employment opportunities were offered to previously unemployed workers. Benefits beyond the construction phase include the provision of nature trails around the development site and a special trail celebrating the site's industrial heritage.

The project demonstrates how a focus on sustainability and whole life costs at the design stage pays off throughout the life of the building. For



example, Powell Dobson's selection of materials was designed to prolong the durability and longevity of the asset, avoid legacy waste and ensure high recycling potential when the building is demolished. The integration of the design development process with the sustainability goals was facilitated by the collaborative ethos shared by multisector partners willing to exchange knowledge, as well as the choice of a design and build contract.

The Eco Learning project has undoubtedly succeeded in its prime goals of validating B&Q's sustainability strategy and establishing a viable model for sustainable design in the retail sector. The judges praised the efforts of a passionate team in 'creating the new normal' and look forward to seeing the lessons widely shared.



Innovation Award

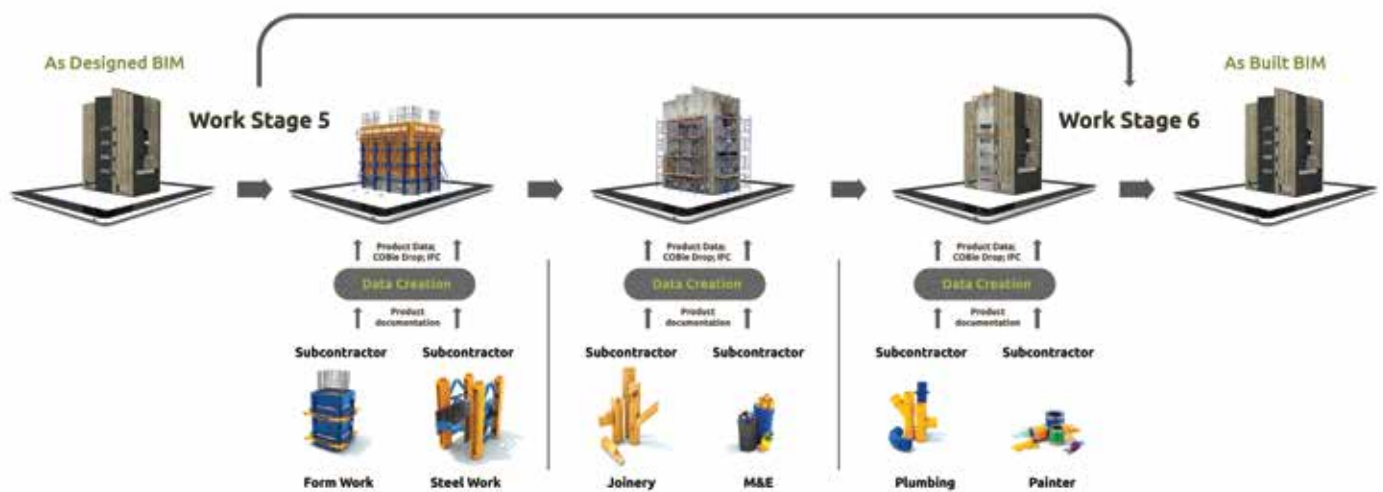
Judges: Phil Lumley Ioan Prydderch Pierre Wassenaar

Award Sponsored by



coBuilder

The potential of Building Information Modelling (BIM) to transform asset management and add value to construction projects is widely recognised.



Up to now use of BIM has largely been confined to 3D visualisation, or limited data sets designed to model the impact of design changes or identify clashes.

For BIM to reach its full potential – the creation of complete 3D models with usable as-built data – design teams must be able to use accurate product data in their models and output as-built data in usable formats. Interoperability between different data formats is essential if BIM is to progress.

coBuilder's timely appearance overcomes this barrier in two ways. Firstly, its GoBIM tool allows construction product manufacturers to structure their data and make it available in multiple BIM formats and languages at the touch of a button. Secondly, its productXchange tool allows contractors to collect as-built data and output it in COBie and other widely used data formats, including IFC, Revit, Navisworks and ArchiCAD.

"coBuilder is a home-grown success story, established in Wales in 2015."

It's easy to see the value of this. The days of collecting drawings and PDFs of building components and compiling O&M files for the operational team should be numbered. coBuilder permits the creation of built information models based on accurate, validated, installed product data, containing everything the facilities manager needs to know to manage the asset.

coBuilder is a home-grown success story, established in Wales in 2015. Founder Nick Tune collaborated with various manufacturers to address the problems of structuring and exchanging data in BIM formats and worked with major contractors to find out how they collect information and data; and what was needed to create as-built information models.

The solution to the problem of interoperability lay in something that seems deceptively simple: semantic mapping. Put simply, different words and terms from different applications and sources that mean the same thing are connected within the buildingSMART data dictionary. The key is to ensure that all the data within the dictionary is recognisable and available to all BIM solutions and software.

The judges recognised the potential of the goBIM and productXchange tools to benefit the construction industry, describing coBuilder as a 'truly useful innovation'.



Young Achiever of the Year

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Judges: Andrew Gibson

Paul Lavelle

Daniel Rossiter



Sara Hedd Ifan - Powell Dobson Architects

Sara joined Powell Dobson Architects in 2011 and qualified as an architect in 2013. She has since built an impressive career, acquiring experience in a variety of sectors and developing strong leadership and marketing skills.



“Her tenacity in transforming a difficult planning application into a successful project helped her achieve rapid promotion to a project architect.”

Alongside her working life, she has put her skills, experience and enthusiasm to use in a wider industrial role, acting as an ambassador for the industry and an advocate for change.

Sara has demonstrated great drive and ambition in developing her career. The judges were impressed by her approach to her work, which is characterised by a strong sense of responsibility for the environment, regeneration and social sustainability. Her tenacity in transforming a difficult planning application into a successful project helped her achieve rapid promotion to a project architect within Powell Dobson. She currently leads the firm's residential team, where she is studying the sustainability implications of a range of different house types.

She is an enthusiast for change and innovative practices, notably in her commitment to a 'fabric first' approach to design and delivery. She understands the importance of BIM and the need to consider the whole life performance of a building.

But it is her contribution as an ambassador and advocate for the construction industry that really marks her out as a rising star. As a member of the G4C (Generation 4 Change) Committee, she believes it is for the next generation to secure the future of the industry by driving through positive change and supporting values such as collaborative working.

She has been a CITB construction ambassador for the past year and has given generously of her time to promote careers in the industry; speaking at schools, colleges, sixth forms and career fairs. She recently enrolled her firm in the campaign, organising a day for graduates to come into the practice to talk to the directors and attend a site visit. Its success will probably make it an annual event. She was recently invited into the Welsh School of Architecture to talk to the students about her experience in practice to date, and is regarded as an inspirational role model.

Sara loves what she does, telling the judges that 'we work in a really exciting industry and have the opportunity to promote the built environment, leaving a legacy for future generations'. The judges described her as 'an ambassador for the industry with a very bright future'.



Achiever of the Year

Judges: Mike Edmonds Rhodri-Gwynn Jones

Award Sponsored by



Anthony Rees - Cyfle Building Skills Ltd

Anthony is regional manager for the award-winning Cyfle Building Skills Shared Apprenticeship Scheme. A passionate advocate for the model, he is committed to encouraging young people to consider a career in the built environment.



“Under his stewardship, approximately 300 young people have been given a life-changing opportunity through an apprentice placement.”



He is also a champion of change, working to counter the adversarial culture that still pervades the industry and tarnishes its image in the eyes of the young.

Anthony started out as a professional footballer with Arsenal, but did not reach his full potential. The experience left him determined to help other youngsters avoid the same fate. Under his stewardship, approximately 300 young people have been given a life-changing opportunity through an apprentice placement that would not otherwise have been available to them. Almost all (95%) are now fully employed within the industry.

A keen advocate of diversity within the scheme, he is proud of the fact that there are 7 girls among the 140 apprentices currently employed by Cyfle. He uses his life experiences and personal insight to persuade young people from challenging backgrounds to join the scheme, explaining to the judges that it is necessary to empathise with many of the young people coming through, as large numbers now come from single parent families. Sensitivity to their particular circumstances is required and many need extra support.

Fully aware of the importance of mentoring, Anthony encourages successful apprentices to undertake mentoring training, allowing them to go back into their own schools as ambassadors for the scheme and to promote the industry.

At the same time, he has used his leadership skills and infectious enthusiasm to persuade contractors across south-west Wales to buy into the scheme's ethos. His success has prompted other regional initiatives across the UK to approach him for advice on engaging with clients and contractors.

Anthony's genuine concern for less fortunate groups has led him to become involved with EFOD (Engineers for Overseas Development) in south-west Wales and its efforts to promote sustainable development in a remote Ugandan town. The charitable company is currently constructing a maternity unit for the local health centre, with Cyfle apprentices supervising the works.

The judges were moved by Anthony's obvious passion for his work, describing him as an 'important catalyst' in Cyfle's achievements to date. They noted that his involvement with the wider community through schools and other activities has raised the profile of construction in the most positive way.



BIM Project of the Year

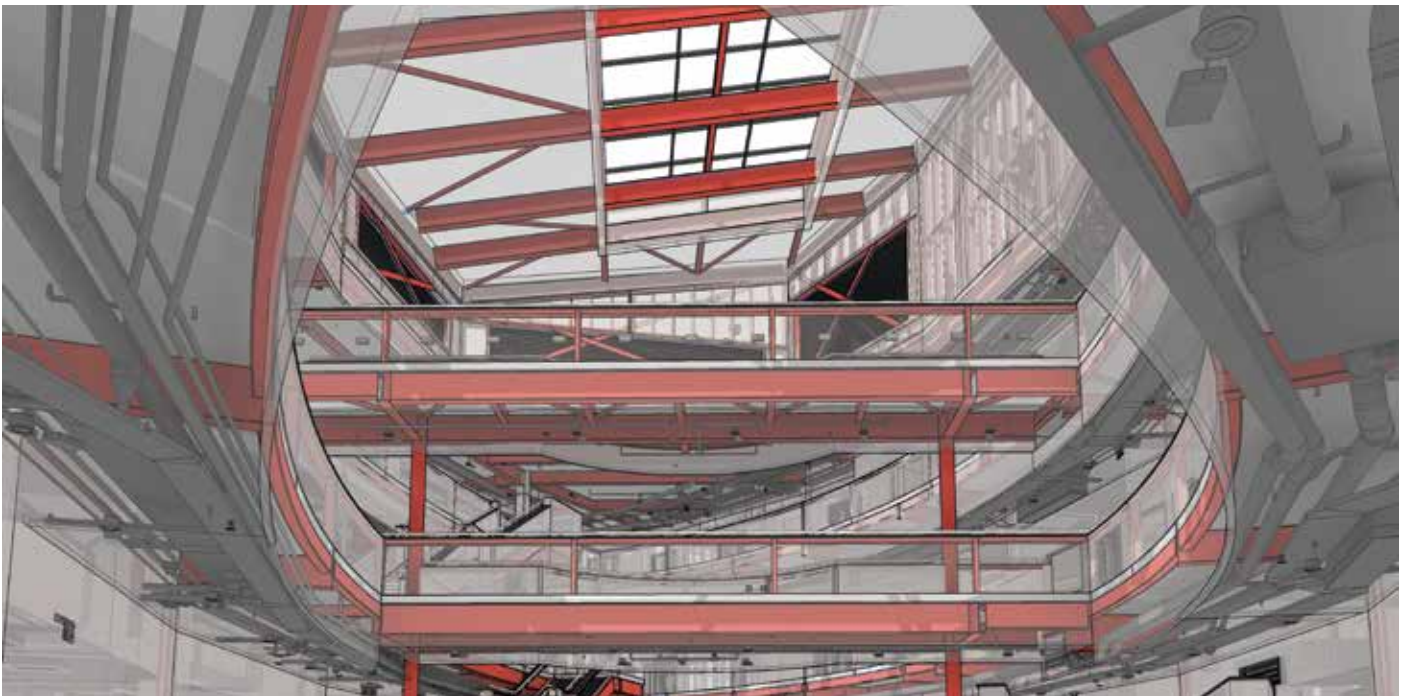
Judges: Daniel Rossiter Andrew Thomas Nick Tune

Award Sponsored by



Holywell Learning Campus - Galliford Try

The Holywell Learning Campus was the first BIM level 2 project to be commissioned by Flintshire County Council under the 21st Century Schools programme.



It is one of the few public sector projects to have made full use of Building Information Modelling (BIM) from the start, with the intention of handing over a complete as-built digital model to the client on completion.

Flintshire was an early pioneer of BIM. Its leadership ensured that the project was structured for BIM from the start. A significant early step was the appointment of a 'BIM mature' architect. Pilot projects were conducted to find out if Revit and 3D modelling software would provide the necessary tools for a fully collaborative process.

The preferred design option was submitted for planning approval in the form of a 3D model. Employer's Information Requirements (EIRs) were issued early to ensure that the project team knew exactly what was needed. Following a two-stage tender process, Galliford Try was selected as the main contractor via the North Wales Schools and Public Buildings Framework on the strength of its understanding of BIM and culture of collaboration.

Use of BIM succeeded in fostering a genuinely collaborative process embracing client, designers, construction teams, schools and, ultimately, facilities managers. Navisworks was used to combine different models into a single federated design environment, helping to coordinate the design process and identify clashes. Innovative Oculus Rift technology allowed the team to walk all stakeholders through a 3D model of the finished building, winning end user support and engagement.

There have been many other benefits. The BIM model has been used to cost the major plant on a whole life basis; for example, enabling the client to take maintenance costs into consideration alongside capital expenditure when planning budgets. Facilities managers have been involved throughout in a process of continuous engagement to ensure the client's operational requirements are met. Galliford Try intends to hand over an as-built model in IFC format to the client on completion.

The Holywell campus is a rare example of a project fully exploiting BIM to cut time and costs and maximise value, yielding benefits far beyond the construction phase. The judges felt that the project has set new standards in best practice in the use of BIM. The knowledge and lessons learnt will be used in the development of the Consortium of Local Authorities in Wales (CLAW) BIM toolkit.

Client of the Year

Judges: David Benson Rhodri-Gwynn Jones Tony Norris

Award Sponsored by



South & Mid Wales Collaborative Construction Framework (SEWSCAP)

SEWSCAP is the largest cross-sector collaborative procurement framework in Wales, having delivered over 45 projects with a total tendered value of £500 million.



It was the first local authority construction framework in Wales and has set the standard for subsequent arrangements.

Originally set up in 2011 to share best practice in the procurement of 21st Century School projects, it is now on its second iteration and has clearly evolved. For this award, the judges looked for clear, consistent leadership, acceptance of core Constructing Excellence principles, and commitment to the vision set out in Construction 2025. The way projects are procured and delivered through SEWSCAP2 goes a long way to satisfying these criteria.

From the start, the framework board has striven to embed best practice and the principles of the Wales Procurement Policy Statement into framework operations. Projects are based on shared objectives, processes and tools to

facilitate collaborative working; and a non-adversarial approach. The framework champions beneficial practices such as Early Contractor Involvement (ECI) and an emphasis on long-term value rather than cost price.

Contractors and clients are expected to work together to prepare procurement plans with a view to minimising the costs and paperwork involved in tendering, encouraging the participation of SMEs and ensuring fair payment for subcontractors and suppliers. Recently, the framework has embraced use of project bank accounts to improve transparency and facilitate collaborative working.

The judges were pleased to see the framework team stepping up its efforts to create a single client entity; which is a challenge as every client organisation works in different ways. The team is working hard to standardise processes through, for example, user guides, standardised documentation and regular meetings; for clients and contractors. Moves such as the rationalisation of KPIs are helping to reduce the element of variation.

Recent developments include the adoption of the CLAW BIM toolkit and a new website allowing clients and contractors to share best practice through case studies. One valuable step forward is the publication of a quarterly forward programme of work that will create greater clarity and certainty, giving contractors and the supply chain the confidence to invest in skills development and shared apprenticeship programmes.

In summary, SEWSCAP has brought about significant cultural change in south and mid Wales, with clients and contractors working as one body, sharing ideas and building long-term relationships. It is a model that should continue to set the standard for other regions.



Leadership & People Development Award

Award Sponsored by

ARUP

Judges: David Benson Rhodri-Gwynn Jones Tony Norris

Lendlease North Wales Prison Project - Lendlease

Lendlease is a construction company founded on the belief that companies must justify their worth to society, placing greater emphasis on environmental and social impact rather than straight economics.



The project to build a new 'super prison' in Wrexham gave the company an opportunity to justify its claim to be a leader in people development.

It has done so in impressive style. In partnership with the Ministry of Justice (MoJ) and the North Wales Economic Ambition Board (NWEAB), a 'Learning and Ambition Academy' has been set up at the site. The academy provides a physical space for learning and workforce development and delivering training to employees and the supply chain, in areas including health and safety, equality and diversity and employability.

It has hosted job fairs and is also available as a live learning environment for school, college and university students; girls and women have been particularly targeted by special events. To date, the academy has delivered over 30 training programmes to more than 750 employees and community members. The academy will be gifted to the NWEAB on completion of the project for use on other construction projects in the region.

Reflecting Lendlease's focus on investing in people, the project has become the first National Skills Academy for Construction in north Wales. This requires stringent CITB KPIs to be met for developing and upskilling the workforce. Onsite leadership training is provided to senior site staff to help them effectively lead and support their teams. This is just one of many schemes in place to help project staff maximise their potential; supporting Lendlease's existing personal development programmes.

The local community is not neglected, for example, Lendlease worked with the local Jobcentre Plus team to recruit over 50 people who were previously unemployed. Local partners helped to fund training initiatives to help people obtain their CSCS (Construction Skills Certification Scheme) card.



Several creative initiatives impressed the judges, helping to lift Lendlease's approach above the norm. For example, a form was developed for local people to register their interest in work opportunities being generated by the project. This was used to build a database of local people interested in working in construction, which is being shared with potential employers. Another innovation is the provision of mental health awareness training for all staff and the introduction of mental health first aiders on site.

In a strong field, the sheer depth and commitment of Lendlease's training and development provision justified its claim to be a leader in people development and welfare.



Project of the Year - Civils

Award Sponsored by



Judges: Vince Hanly Phil Jones Andy Sutton

A465 Dualling Section 3 - Carillion Civil Engineering

The project to build the A465 Dualling Section between Brynmawr and Tredegar ran from the start of 2013 to September 2015 and has bequeathed a real and lasting legacy to Blaenau Gwent and the wider Welsh economy.



“The project team placed added value at the heart of the process.”

Described by Carillion as 'delivering more than just a road', the project is a showcase of good practice which, remarkably, was delivered for less than the original budget set in 2009.

The Welsh Government provided strong leadership, promoting a collaborative culture from the start by choosing Early Contractor Involvement (ECI) and an NEC target cost form of contract. The core team was co-located to create an integrated, one-team approach.

The project team placed added value at the heart of the process, taking time to engage with the local community and understand expectations. Good results were achieved against the three pillars of sustainability. For example, 84% of the budget was spent in Wales and 85% of the labour was based in Wales. A 'National Skills Academy for Construction' was established, delivering 25 apprenticeships, 155 weeks of work experience and engaging with 4,600 young people.

The project team worked together to secure £82 million of European Regional Development Funding (ERDF) by demonstrating the positive impact it would have on the local community. Among other things, the local area acquired over five kilometres of cycle tracks. Waste performance was impressive, with 99.3% of site waste diverted from landfill through use of onsite waste segregation systems to assist recycling; and all the material excavated was reused in the works.

There was a notable willingness to challenge convention and create new engineering solutions where this would reduce costs, improve sustainability or add value. An outstanding example was the value engineering of the Carno Valley crossing. The original plan for a 170-metre long viaduct running in parallel with



existing high voltage overhead cables was changed to an embankment solution, significantly improving safety and saving 10% of the total carbon output.

BIM was used effectively for visual planning, using Syncro software to integrate time, cost, temporary works and earthwork solutions to achieve 'right first time' delivery.

The judges felt the project demonstrated best practice across the board, particularly in its collaborative approach and waste and recycling performance. They also praised the way the transferable successes are being shared across the industry. The application of Constructing Excellence principles was a determining factor in bringing the scheme in on time and with no defects.

Project of the Year - Buildings

Award Sponsored by



Judges: Vince Hanly Phil Jones Andy Sutton

Noah's Ark Children's Hospital for Wales Phase 2 - Interserve Construction

Noah's Ark is the first dedicated children's hospital to be built in Wales, designed to provide clinical excellence in a child-friendly setting.



"All parties approached the project with passion and enthusiasm."



Interserve Construction, working within the 'Designed for Life: Building for Wales' framework, led a team that succeeded in delivering a high quality, engaging building.

The client (Cardiff and Vale University Health Board), stakeholders and end user groups were engaged in planning for a year before the start of the project, to ensure the building was the right fit for its young patients. Weekly meetings and informal discussions continued throughout the design and construction process and the client's estates team and standards officers were given regular access to ensure the design was on track.

The project team developed a collaborative ethos, supported by co-location, that made it possible to integrate the demands of over 20 clinical specialities into an environment that is welcoming, reassuring and fun. Team building through Corporate Social Responsibility (CSR) activities succeeded in raising £85,000 for the hospital charity – an excellent example of added value.

Close working relationships were an important factor in delivering the project eight weeks ahead of schedule. Interserve's Soft Landings approach ensured a smooth, stress-free handover.

The team applied several innovative techniques to ensure high quality and added value. LATCHmosphere, for instance, is a groundbreaking technology that can create over 50 themed light and sound experiences. Children can conjure a personal environment of light and sound that follows them through from the waiting room to the radiology unit and MRI scanner. As a result, doctors are reporting a reduced need to use anaesthetic as LATCHmosphere helps to keep children relaxed during scans.

Health and safety was a top priority, leading to measures that exceed the healthcare sector norm. For example, the team worked with ambulance and fire services, local bus companies and the health board to devise a safe traffic management system: and a comprehensive method statement was developed to control dust emission and possible spread of aspergillus. Both have become benchmarks for future health projects.

Best practice and lessons learnt have been shared with the Birmingham Children's Hospital project team, who visited Noah's Ark to observe the technological innovations.

All parties approached the project with passion and enthusiasm, resulting in a building that wowed everyone when it was unveiled. As one parent put it; 'It's absolutely brilliant.' The judges described it as 'clearly a wonderful facility that was delivered by a dedicated and committed team.'

Highly Commended

Value Award - The Agilis School Model - ISG



ISG worked with architects, engineers and consultants to create a standard model for primary schools in line with 21st Century Schools objectives. The model, which can be adapted to suit specific client and user needs, is built around modern, tried and tested solutions, such as, lean building processes that are designed to save time and money when applied to new school building projects. ISG is happy to share the knowledge it has acquired from its school projects with local authorities, head teachers and other stakeholders at special Agilis open days. The judges commended the clear commitment to standardisation, continuous improvement and best practice inherent in the model.



Innovation Award - Burry Port Community Primary School - WRW Construction Ltd



Burry Port Community Primary School is an exemplar of sustainable construction and an outstanding demonstration of the way innovative technologies can be applied in the education sector. The design incorporates a new building built on Passivhaus principles, making this the first Passivhaus primary school in Wales. A second building uses the chemical-free Brettstapel technique to enable the use of sustainable Welsh timber, previously considered unsuitable for use in construction. The client, Carmarthenshire County Council, was particularly keen to find a way of utilising Wales' abundance of fast-growing softwood in the design of the school. The judges commented on the impressive demonstration of energy-efficient technologies in a different setting and praised the ingenious solution to the use of sustainable resources.



Leadership & People Development Award - A465 Heads of the Valleys Section 2 - Costain Ltd



On the A465 project, Costain has made good use of the opportunity to upskill its workforce and adds to the pool of skilled workers essential for Wales' future. At the time of submission, this was the only major infrastructure project in Wales with CITB National Skills Academy status. It provides ongoing training for Costain employees and supply chain partners, with mechanisms in place to ensure high quality outcomes. High staff retention and low sickness absence suggests that the workforce is highly motivated. A new apprenticeship framework has been set up in partnership with CITB and Coleg Gwent. The project stands out for its commitment to supporting sustainable communities by leaving a legacy of highly skilled workers for the future.



Special Recognition

SME of the Year category 51-250 Contract Services (South Wales) Ltd



The Judges would like to recognise Contract Services (South Wales) Limited. They were impressed with what the company has achieved to date and have no doubt they will achieve their ambition to be one of the strongest contractors in Wales by 2020.

Leadership & People Development Award Engineers for Overseas Development Ltd (EFOD)



The Judges would like to recognise EFOD. The judges were impressed with Christina Kio and Layton Davies for their commitment and passion but also how they had addressed key leadership issues through their humanitarian approach. Well done!

Supported Charities



In 2016 Kids Cancer Charity (formerly Christian Lewis Trust) will commemorate 27 years of caring and supporting families affected by cancer. Since 1989, the charity has helped many thousands of families and gained UK-wide recognition for its work and activities. Our services include: Compassionate Care Respite Breaks UK; Play Therapy; Bereavement Counselling; Bereavement Support; Befriending; The American and French "Dream Experience" and Travel Insurance advice. "We believe that quality of life for children affected by cancer is a right. To work with them and their families is a privilege"

Should you require further information please contact:

Eira Gwynn

Kids Cancer Charity

Christian Lewis Trust

Perch Buildings, 9 Mount Stuart Square

Cardiff, CF10 5EE

Tel: 029 20489833



The "Conwy Kids Matter" charity is made up of volunteers whose day jobs are Family Intervention Workers based within Conwy's Children and Family Services (Social Services). Conwy Kids Matter is a charity that aims to give life enhancing experiences to children from disadvantaged backgrounds that receive support from Children and Family Services. The group works in partnership with social services teams and aims to enhance and increase the services already provided to families in need. Our aim is to provide positive experiences and opportunities that our children might not otherwise have, such as outings to the zoo, opportunities to experience a Pantomime, swimming lessons, sailing lessons, dance classes, toys and food hampers and vouchers at Christmas time etc.

Should you require further information please contact:

Janet Lee/Vickie Baird/Ann Rees

Conwy Kids Matter

Civic Centre Annexe, Abergele Road

Colwyn Bay, Conwy, LL29 8AR

Tel: 01492 575178/01492 575386

Headline Sponsors



Sponsors



Celebrating 10 years of CEW Awards - Project of the Year

2007



De-commissioning of Trawsfynydd Nuclear Power Station - Magnox

The first CEW award winner set a high benchmark for embedding leadership within a programme and embracing collaborative working in what was always going to be a sensitive project that needed expert management.

2008



Cardiff International Pool - Laing O'Rourke

A flagship project finished to a very high technical standard, but what stood out was the focus on engaging the workforce and the overall approach to health & safety.

2009



Cardiff Central Library - Laing O'Rourke Wales & West Ltd

Cardiff Central Library was, according to the judges, much 'more than a library' it was a learning experience and outstanding demonstration of the benefits of collaboration.

2010



Newport High School, - Leadbitter

Newport High School has also become a CEW Exemplar, winning awards for waste as well as project of the year and its impressive array of environmental features earned it the distinction of becoming the first secondary school in Wales to achieve BREEAM 'Excellent' status.

2011



A40 Improvement Penblewin & Slebech Park - Costain

A40 improvement between Penblewin and Slebech Park set new highways engineering standards in Wales with the lessons learned allowing other ECI schemes to be managed more effectively, particularly in the areas of public inquiry management and procurement of service authorities.

2012



Hanbury Baptist Chapel - Carter Lauren Construction

The refurbishment of Hanbury Baptist Chapel in Bargoed, Caerphilly was unique and regarded as out of the ordinary. As the first project of its kind in Wales, the landmark building has been transformed into a modern community hub.

2013



Taf Ely Learning Campus - Laing O'Rourke

A new technical college in Nantgarw, South Wales where the use of BIM and offsite construction yielded significant benefits in terms of cost, timescales and safety.

2014



Coleg Cymunedol Y Dderwen - Leadbitter

A £35.5m project to build a new secondary High School for Bridgend County Borough Council. The team created a school building that is an inspiration for staff, pupils and the community alike and lays down future best practice for truly sustainable buildings.

2015



Penarth Learning Community - Bouygues

This project typifies what best practice is all about with as much as £32 million of the £39 million project budget spent in Wales and 1,422 people employed from within a 25-mile radius.



