

CIAT Awards

A superb
display of talent



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Cover

This issue's cover shows Blaydon Leisure and Primary Care Centre, the winning entry in the 2011 Open Award for Technical Excellence in Architectural Technology, which was presented to Adrian Evans MCIAT of P+HS Architects at the Presidents' Annual Dinner Dance in November. For more information on the Awards please see page 12.

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Institute News

Membership Director James Banks reports with the latest statistics, information and news relating to the Institute and its members.

POP Record Workshops

November and December saw the Membership team host POP Record Workshops in Cambridge, Newcastle and Milton Keynes. POP Practice visits to Jacobs in Northallerton and Powell Dobson in Cardiff were also made along with a presentation to students at Nottingham Trent University.

To support you and your colleagues in enhancing your professional career in Architectural Technology, all members are entitled to arrange for a free promotional visit by the Membership Department to your workplace, university or college. To qualify for a visit, you should have five or more attendees who are interested in joining the Institute and finding out about the procedures to qualify. To

arrange for a visit, please email membership@ciat.org.uk

POP Record Workshops are being organised for Carlisle, Inverness, Leicester, Liverpool, Norwich, Plymouth, Wolverhampton and York. Venues and dates are yet to be confirmed and will be advertised in the weekly e-newsletter. If you would like to express an interest in attending, please contact Amina Khanum, Membership Administrator (amina@ciat.org.uk).

POP Panels

Two POP Panels were recently held with nine members passing and thirteen deferrals. Those members who passed can either apply for their Professional Practice Interview or upgrade to Technician membership, depen-

dant on what POP Record they had assessed. Those who were deferred will be submitting additional evidence for re-assessment.

New Members

Two days of Professional Practice Interview Boards were held in London and Manchester. We are delighted to congratulate the following individuals on obtaining Chartered Membership, MCIAT:

018315 Ian Forster, Merseyside (Region 03)
024748 Paul Giles, Cardiff (Region 16)
024309 Shaun Hutchinson, Cleveland (Region 01)
011862 Colin Miller, Surrey (Region 10)
016395 Patrick Rayson, West Midlands (Region 05) *(continued overleaf)*



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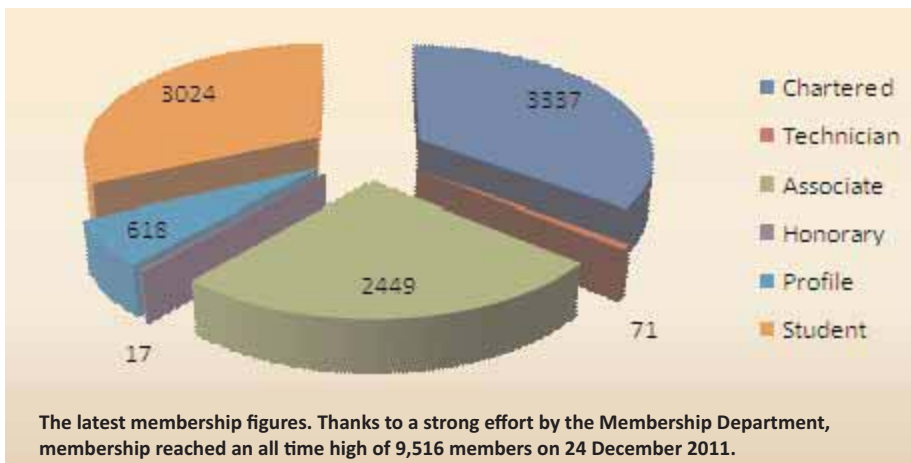


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018180 Louise Robinson, Norfolk (Region 07)
 017547 John Scanlon, County Kerry (Centre 02)
 017894 Damian Scully, Worcestershire (Region 05)
 017132 James Stevens, West Sussex (Region 10)
 020535 Nick Turner, Kent (Region 10)
 024219 Matthew Whitehead, Lincs (Region 04)

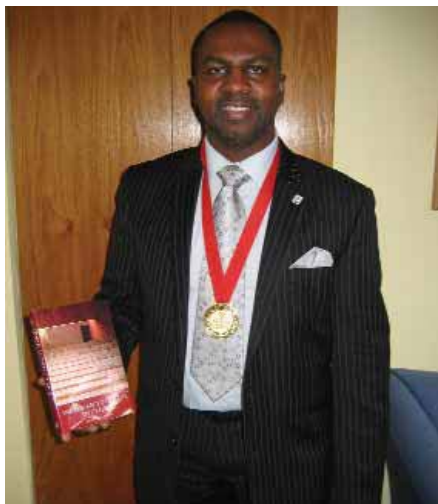
Congratulations to Ian Riches (018066), Lancashire (Region 03) on attaining Architectural Technician membership and a welcome return to Douglas Whelan (000230), County Durham (Region 01) who has rejoined as a Chartered Member.

In Memoriam

We regret to announce the death of the following members:
 Douglas Arran MCIAT, Co Durham (Region 01)
 Martin Harvey MCIAT, London (Region 09)
 Rachel Williams MCIAT Dorset (Region 12)

Happy New Year to Hong Kong Centre members and colleagues

The President, Colin Orr, sent this message to all members in the Hong Kong Centre and in mainland China: 'I would like to wish you a Happy New Year as 23 January saw the Chinese New Year, which is my year —the Year of the Dragon. I have just been made a life-long member of the Guangzhou Association of Engineers (GAE) and I am pictured here (below left) with my membership medal.'



Institute films

The Institute's new qualifying films are now available. They are *Qualifying in Architectural Technology Part One: The Professional Occupational Performance (POP) Record*, *Qualifying in Architectural Technology Part Two: The Professional Practice Interview* and *Why join the Chartered Institute of Architectural Technologists?* They can all be viewed on our YouTube channel at www.youtube.com/ciatechnologist.

2011 Student Awards

The results of the 2011 Student Awards were announced at the AGM in November. The winner was Reuben Davies of Nottingham Trent University for Duddridge Modus Centre. Highly Commended was awarded to Emma Walshaw and Commended was awarded to Conor Lawless, both from Sheffield Hallam University. A full report will appear in the next issue of AT.

Regional news

Yorkshire Region

13 February: Yorkshire Region Committee Meeting at the Harvester, Morley, Leeds, at 6.00 for 6.30pm.

21 February: Regional member and former Leeds Met lecturer Matthew Peat will speak on thermal bridging and thermal modelling for bespoke construction details. Holiday Inn, Wakefield, 7:00 for 7:30pm. Coffee and muffins provided.

For further information and to book please contact Richard Turner, Regional CPD Officer. Tel 01484 424008, Fax 01484 512305. Email richard@farrarbamforth.co.uk

Conduct

In accordance with the Institute's Conduct and Disciplinary Procedures, please note the following decisions of the Conduct Committee.

F2600 (profile candidate): Mr Robert Pepper

Mr Pepper was found in breach of Clause 1a) and Clause 1b), and Clause 5c) and Clause 5d) from the Code of Conduct effective 1 May 2011:

Clause 1: Professional Conduct The members shall at all times: a) act with integrity so as to uphold the standing and reputation of the Institute; b) act faithfully and honourably in their professional responsibilities.

Clause 5: Professional Indemnity Insurance Chartered Members or profile candidates who: c) were principals but who have ceased to provide services directly to clients shall take all reasonable steps to either:

i) ensure that adequate run off professional indemnity insurance cover is effected; or
 ii) discharge their duty whilst protecting the interest of their client;

d) are or were principals shall on request by the Institute provide the necessary evidence to demonstrate compliance with clauses 5a)-5c) above.

Disciplinary action:

In accordance with the Conduct and Disciplinary Procedures Schedule 1, Item 17 e), Mr Pepper was expelled from the Institute.

F3484 (profile candidate): Mr Scott Peter Waldie

Mr Waldie was found in breach of Clause 1b) from the Code of Conduct effective 1 May 2010:

Clause 1: Professional Conduct. The members shall at all times: b) act faithfully and honourably in their professional responsibilities.

Disciplinary action:

In accordance with the Conduct and Disciplinary Procedures Schedule 1, Item 17 (b), Mr Waldie was reprimanded in respect of this breach and was required to give an undertaking in writing to refrain from further contraventions of the Institute's Code of Conduct; this he has duly done.

F1543 (profile candidate): Mr Kevin William O'Reilly

Mr O'Reilly was found in breach of Clause 10 from the Code of Conduct effective 1 March 2005:

Clause 10: The members who are the subject of an investigation by the Institute of an alleged breach of this Code shall use their best endeavours to assist in that investigation at their own cost.

Disciplinary action:

In accordance with the Conduct and Disciplinary Procedures Schedule 1, Item 17 (b), Mr O'Reilly was reprimanded in respect of this breach and required to give an undertaking in writing to refrain from further contraventions of the Institute's Code of Conduct; this he has duly done.

Martin Harvey MCIAT 1955-2011

**By Adam Endacott,
Public Relations Director**

After a very brave battle with cancer, Martin sadly lost his fight on 5 December aged 56. Although a quiet man, Martin was meticulous in his manner and gave many years of service as Regional Secretary to the Greater London Region. Martin was a knowledgeable Chartered Architectural Technologists

I first met Martin when I joined the Institute twelve years ago when he was a member of the Innovation and Research Committee. A regular contributor to the meetings during the thirteen years on the Committee, he always had a nugget of information to pass on in any other matters and stood as Vice-President Innovation and Research, which he unfortunately did not attain.

Martin was a regular attendee at AGMs and we would often exchange friendly words over breakfast. When not giving his time to the Region, Martin was a great family man and adored his two grandchildren.

Over the years Martin was a stalwart of the London Region and made considerable efforts to organise events and meetings at Central Office and elsewhere; a particular distinction in a Region where the transience of the population can make such commitment from members difficult.

Joining the Institute in 1979, Martin always supported CIAT where possible. His unique shoes on the Regional Committee will be difficult to fill.



Doug Arran MCIAT 1936-2011

**By Adam Endacott,
Public Relations Director**

Doug was a very active and highly respected Chartered Architectural Technologist and was involved with the Institute since it began in 1965. Over six decades, Doug was a committed Member and served on the Northern Region Regional Committee, the Practice Committee (from 1993), the Examinations Board (1992–95) and the Membership Committee (1995), and was a notable Interview Assessor for Professional Practice Interviews right up until November last year.

Along with his wife Marcia, to whom he was married for 51 years, Doug was a familiar face at the Institute's AGMs. To my mind, Doug was a true gentleman and was as equally passionate about music as he was about Architectural Technology. Instantly recognisable by his pure white hair and 'noble bearing', I always looked forward to chatting to Doug and hearing about his holidays and also his family, of which he was immensely proud.

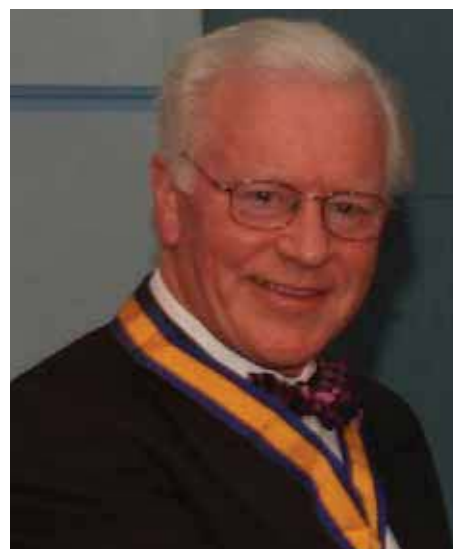
Doug received the ultimate recognition from CIAT when he was given the Gold Award in the Institute's 40th Anniversary year, 2005, for his services to the Northern Region. He will be greatly missed but fondly remembered by those who knew him during his 46 years in the Institute.

**By Phil George MCIAT, on behalf of the
Northern Region**

The Northern Region was shocked and saddened to hear of the sudden death of Doug Arran MCIAT at the age of 75. His funeral was held on 5 January 2012 at St Peter's Church, Stockton on Tees, where Doug was a regular worshipper and helper. The service was attended by many friends including Regional colleagues and members of Central Office staff with whom Doug had long standing connections.

Doug was one of the founder members of the original Teesside Chapter in 1968 and remained an active committee member of the Northern Region until his untimely passing. He represented the Region at numerous functions including national AGM's over many years. He was also an active member for education matters within the Institute and served on many Assessment and Interview Boards where his caring manner and professional disposition not only put candidates at ease but served the Institute well by the depth of his knowledge.

Doug was born in Leeds and moved to Darlington after the Second World War. He was involved with the early development of Aycliffe New Town in County Durham prior to setting up his own successful practice in 1963 and among other work undertook many architect-



tural model making commissions. He retired in 2003 which gave him more time to devote to his passion of walking in Lakeland and the North Yorkshire Dales as well as restoring his beloved Triumph cars (he was a member of his local Cleveland Triumph Group) alongside continuing his involvement in our Institute matters.

Doug will be sadly missed by family, friends and all who knew him including those who had connections with him within the Institute which he served so loyally.

AGM and Presidents' D

What do racing toy cars, voting for resolutions and dancing to live music all have in common? They were all part of the Institute's AGM weekend held in Cambridge between 18–19 November 2011! Yes, it was that time of year again when representatives from across all Regions and Centres gathered together to discuss Institute business and celebrate another triumphant year for CIAT. To find out what happened, *AT* magazine was allowed exclusive access to the diaries of the two Presidents, Barry Le Beuvant and Colin Orr.

Barry Le Beuvant's diary
Friday 18 November

I can't believe that it is that time of year again! The AGM weekend saw us in Cambridge, home to colleges galore – I'd never seen so many bicycles before! Our base for three days was the Crowne Plaza Hotel which is in the heart of Cambridge's town centre. It is the biggest hotel in the local area and was home to all the 100 plus delegates. My wife Daphne and I began the day being tourists and discovering Cambridge for ourselves; there are so many little alleyways and streets that there was plenty to see and do.

After lunch, we returned to the hotel knowing that fellow members would be arriving and I was looking forward to catching up with them all. Had a meeting with Francesca, Chief Executive, and the Honorary Officers about the timetable and it was good to hear that everything had been organised and most importantly, no hitches. It was unfortunate to discover that some Members were unable to be with us due to illness or unforeseen circumstances. Soon enough, 7pm came round and we went to the Orchard Suite at the hotel to an evening hosted by the East Anglia Region, simply called 'Scaletrix Evening'.

I was among the first to arrive and it gave me the opportunity to meet with the Region and thank them for all their work over the past few months to organise the evening. These included Simon Ward MCIAT, Regional Chairman, Lawrence Cousseil MCIAT, Regional Secretary and of course Kathy Thurman MCIAT, Regional Councillor who was thanked formally by the Region itself with a small presentation at the start of the evening with some flowers.

The room was bedecked with all kinds of racing paraphernalia and it was also good to see local members work displayed as well to give us a flavour of what was going on in the Region. There was also a display by Architectural Technology students at nearby Anglia Ruskin University. The room soon filled up with familiar faces as well as new ones, which was pleasing, so it was time for me to put my networking hat on and talk to many of the attendees – I understand that just over 100 people were at the event.

It was then over to Simon to start proceedings and explain about the eight track Scaletrix racing track, which incidentally had taken up nearly half of the

room! It was then that I found out how competitive all members are! The race track was soon full with those racing and spectating; while this was going on we were able to grab some food.

What always pleases me about these social evenings, is that we raise money for a charity of the Region's choice. The East Anglia Region had chosen Help for Heroes and particularly for the Colchester Personnel Recovery Centre – a new build centre within the garrison at Colchester. To assist with raising funds, raffle tickets were sold throughout the evening with a top prize of a weekend stay at the hotel donated by the hotel itself. This was won by Alex Naraian MCIAT of the South East Region.

Time ticked by with a number of races and soon enough, the fastest timed racers from each race were announced and had to leave the room. They were then clapped in for the grand finale, another race but this time with a difference – caravans were attached to the cars! This proved a bit more of a challenge but was all good fun. A good night was had by all – time for me to end this entry and get some sleep – a big day tomorrow and my last few hours as President.



Dinner Dance: Cambridge 2011



Clockwise from top. Kathy Thurman, East Anglian Region, receives a bouquet for her work on the event. The beautiful city of Cambridge. Barry Le Beuvant make the presentation to Honorary Secretary Karl Grace MCIAT. Presentation of the cheque for Help for Heroes to Joanne Hall. The Presidency is handed over to Colin Orr. Delegates gather in the theatre. Opposite page: The Friday night competition.





Colin Orr's diary
Saturday 19 November


The day finally arrived! I was awoken by my youngest daughter with 'Good morning Mr President' but had to explain that I wasn't quite yet! It was nice to see so many fellow Members at breakfast and learn that the previous evening had been very enjoyable. The AGM was held in the Howard Theatre at Downing College, a short walk from the hotel. The theatre has been recently built and was designed by Francis Terry of Quinlan and Francis Terry LLP. After photos with my future Council, it was time to join all the voting delegates, Past Presidents and local members for registration.

It was good to see several supporters with stands; the Architects' Benevolent Society (ABS) who do such great work for all those in the architectural profession with financial difficulties (many of our members have been generous benefactors), Practical Action, with whom we work to counterbalance our carbon footprint and fund projects across the globe

which are supporting and giving back to the earth and the Local Authority Building Control (LABC) who we have a working relationship with and its Chief Executive is Paul Everall CBE, an Honorary Member of CIAT. Also with a stand was our sponsor for the weekend, the Rooflight Company.

The time was soon upon us so it was upstairs to the theatre, which reminded me of one of those old music halls and a very fitting venue for the Institute's 36th AGM. Barry commenced the AGM as President with his opening speech. This was a precis of the Institute's year since we last met in Guernsey in 2010. Included was a presentation to Joanne Hall from Help for Heroes who collected a cheque for £660, the amount raised from the Friday night social evening, the announcements of all the Award winners and the showing of a few of the membership films.

A surprise was the presentation of a gift of thanks to Karl Grace for his twelve years of service as Honorary Secretary - a mantle which has now been taken on by Gordon Souter. (Continued on page 10)



Chartered Institute of
Architectural Technologists

Presidents' Dinner Dance 2011

Order of Events

Toastmaster: Graham Reader

Welcome
Simon Ward MCIAT,
East Anglia Region Chairman
Mayor of Cambridge,
Councillor Ian Nimmo-Smith

~~~~~

**Gold Award**  
~~~~~

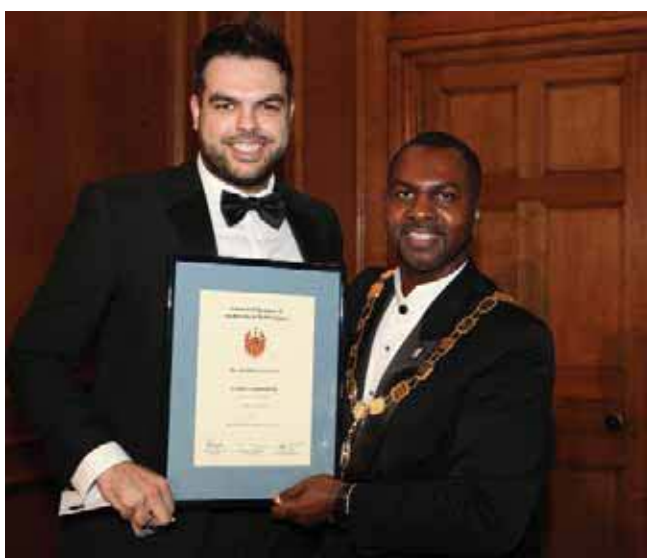
Grace
~~~~~

**Dinner**  
Grilled red mullet served with  
a rice noodle Thai salad and a warm soya dressing  
~~~~~

Traditional roast beef
served with all the traditional accompaniments
~~~~~







Opposite, clockwise: the hall at Girton. The dinner menu. The Mayor of Cambridge addresses the guests. Barry Clarke MCIAT (l) and Alex Naraian MCIAT. This page, clockwise: Adrian Evans MCIAT receives the Technical Excellence Award from Colin Orr and Award supporter Kevin McParland of McParland Finn Ltd (CIAT Insurance Services). Stephanie Hill ACIAT receives the Alan King Award (Winner) from Colin Orr. Representatives of the Scottish Regions. Simon Ward MCIAT, East Anglia Region Chairman, gives the welcome address. Representatives of the Northern Ireland Region. John Bridge ACIAT receives the Alan King Award (Highly Commended) from the President.



Left: All the President's men - CIAT Past Chairmen and Presidents gather at the Dinner Dance. Below: Pictures of those receiving Accreditation/ Recognition certificates from Colin Orr (from left): Dr Jonathan Scott ACIAT, Robert Gordon University. John Wood, Edinburgh Napier University. Vince Conway ACIAT, Nottingham Trent University. Professor Adrian Pitts, Sheffield Hallam University.



(Colin Orr's diary continued) The formal business then continued with the minutes from the last AGM approved, Bob Kay, Honorary Secretary, presented the accounts which were approved after a few questions from the floor. It was then time for outgoing President Barry to give his closing remarks and then hand over the Chain of Office to me. What a moment! To stand in front of everyone and to be handed the Chain - it was very special indeed and an extremely proud moment for me.

After my inaugural speech I had the great honour of giving Barry his Past President's medal. It was then time for me to close proceedings and welcome to the stage Professor Sam Allwinkle PPBIAT MCIAT, who gave a presentation on membership futures which set the scene for my term in office.

The evening saw the Presidents' Dinner Dance held at Girton College, which was England's first residential women's college established in 1869. It was designed by Alfred Waterhouse. I was part of the formal greeting line along with my wife Val and our guest

for the evening, the Mayor of Cambridge - I never knew how shaking over 250 hands could be so tiring. At least it worked up an appetite for the dinner, into which we were clapped into as the top table.

The hall at Girton looked magnificent and was very 'Harry Potter' all that was needed was a few owls and some flying candles! Our Toastmaster for the evening then announced Simon Ward, who gave a welcome speech from the East Anglia Region and followed by the Mayor of Cambridge, Ian Nimmo-Smith, who welcomed us all to his 'patch'. Following the Gold Award presentations, we had speeches from Barry and me along with the loyal toast. It was then time for the Awards presentations to all the winners and it was great to meet the recipients and make the presentations. With the formalities at a close, it was time for dancing and networking. The live music was provided by SoulFunk Secret. The celebrations continued into the early hours. What a great night!

The Institute would like to thank all those who made the event possible, in particular our main sponsors the Rooflight Company. The 2012 AGM and Dinner Dance will be held in Belfast on 17 November.



## Gold Award 2011

The Gold Award is the highest accolade that the Institute can bestow to honour its own members and is recognition of a Member's dedication to the Architectural Technology discipline, through an outstanding service or commitment to the Institute, industry or Region/Centre. The Gold Award was introduced in 1999 and, to date, this honour has been bestowed on over 50 Members. The Gold Award consists of a medal, lapel badge and certificate. In 2011, there were two recipients.

### Jeff Goodchild MCIAT

Nominated by the North West Region, Jeff was awarded the Gold Award in recognition of his dedicated service to the Region.

'Jeff has always demonstrated a passion for the Institute over a wide range of issues — these are often reflected in his forthright views being expressed at both Regional and national level! He has served the North West Regional Committee for many years and was its Regional Councillor for nearly a decade (2001–10). He is always the first person to raise his hand to represent the Institute at local events. Of particular note is his continuing willingness to act as a POP Record Supervisor assisting members with their POP Record, which is often on a voluntary one to one basis. He has been a POP Panel Assessor since 2008.

His involvement at national level has included being a member of the Membership and Education Committee (2006–10) and the Finance Committee (2001–11). Jeff remains an active and valued member of the North West Regional Committee.'

### Nik Wilson MCIAT

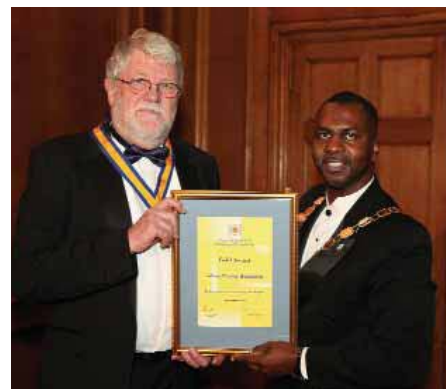
Nominated by the Yorkshire Region, Nik was Awarded the Gold Award in recognition of his dedicated service to the Region.

'Nik is a long standing member of the Yorkshire Region Committee and has held the posts of Regional Chair and Treasurer, plus serving as Regional Councillor for six years (2003–09). He has, and continues, to serve the Yorkshire Regional membership with both dedication and enthusiasm in whatever capacity he has been requested to undertake.

Whilst serving on both Council and Executive Board (2007–09) and as a Director of ATSL, Nik undertook the duties required of him with pride and diligence whilst still having to manage a busy architectural design practice.

He is continually endeavouring to raise the profile of CIAT both at a Regional and national level, and even within the more isolated part of East Yorkshire where he is based. Alongside Richard Turner MCIAT, Nik undertook a leading role in assisting to organise the Institute's AGM held in Leeds in 2009, taking time out from his busy schedule to inspect and check on potential venues and liaising with the Regional Committee and Central Office.

Nik effectively ran CIC Yorkshire single handed for a number of years, and as Chairman (2008–10), thus helping to raise the profile of CIAT within Yorkshire. He has also volunteered his time as part of the Expert Advice Centre at the National Homebuilding and Renovating Show and has been a corresponding member of the Innovation and Research Committee (2007–10).



Top: Jeff Goodchild MCIAT. Below: Nik Wilson MCIAT, both with Colin Orr.

The Yorkshire Regional Committee has no hesitation in putting Nik forward as a Gold Award recipient for his continuing dedication and service to the members of the Institute at both national and Regional levels plus his ongoing efforts to highlight the role of the Institute to the wider public within Yorkshire.'

## Accreditation and Recognition

A number of educational institutions received certificates of Accreditation or Recognition at the Presidents' Dinner Dance.

### Certificates of Accreditation

Fifteen years on from the first submissions for CIAT Accreditation of Honours Degrees, the Institute maintains strong links with all of its Accredited universities.

Receiving Accredited status for learning and teaching in Architectural Technology, for the Honours degree, is a demonstration of commitment to delivering the highest standards of graduate progression and employability within the profession. It also symbolises the positive and mutually supportive relationship between CIAT, the university, staff and students. The following universities received this accolade:

- The University of Bolton  
BSc (Hons) Architectural Technology
- University of Huddersfield  
BSc (Hons) Architectural Technology
- The Robert Gordon University  
BSc (Hons) Architectural Technology

In addition, the University of Wolverhampton has received Accreditation in Principle for its BSc (Hons) Interior Architecture and Property Development. This is the second Honours degree in an Architectural Technology related subject from Wolverhampton that CIAT has Accredited and is the first Accredited programme that is not specifically in Architectural Technology.

### Certificates of Recognition

The Institute is also delighted to have

presented the first certificates for Recognition of Masters degrees. Receiving Recognised status for learning and teaching in Architectural Technology and the built environment (for Masters degrees), is a demonstration of the university's commitment to delivering the highest standards of postgraduate progression and specialism within the profession. The following universities received this accolade:

- Edinburgh Napier University  
MSc Architectural Technology and Building Performance
- Nottingham Trent University  
MSc Architectural Technology and Design
- Sheffield Hallam University  
MSc Technical Architecture

# Open Award for Technical Excellence

**Adam Endacott, Public Relations Director, meets the winning recipients of the 2011 Open Award for Technical Excellence in Architectural Technology and discovers just what made their projects 'technically excellent'.**

The Institute's premier Award is the Open Award for Technical Excellence in Architectural Technology. Since its introduction in 1995, previous winners have included Benoy, Grimshaws, HKSAR (Hong Kong) and Stephenson Bell.

This Award is given for technical excellence within Architectural Technology. Entrants must demonstrate this by illustrating the composition of ideas put into practice and presented in a working format. Criteria for the judging include innovation, sustainability, consideration of fabric, structures and services at design stage and health and safety. The judges were Andrew Scott MCIAT, Vice-President Technical, Mark Kennett PPCIAT MCIAT, Lawrence Coussell MCIAT and Dave Adams MCIAT.

## Winner: Adrian Evans MCIAT, P+HS Architects for Blaydon Leisure and Primary Care Centre

'After 35 years in the profession, this is a tremendous personal achievement for me and the realisation of a career goal' begins Adrian Evans MCIAT, a Chartered Architectural Technologist who works for P+HS Architects in Stokesley. 'I am passionate about my work and technical excellence is something that I strive to achieve in every project I undertake'.

He continues. 'As a Chartered Architectural Technologist, there is no better satisfaction than to receive national recognition from your peers and mentors for merely doing your job.' The winning project is a leisure and primary care centre, a multi-use building which co-locates healthcare and

recreational facilities under one roof. Both uses are separated by a central public atrium space which also provides a dramatic visual impact when entering the building.

The new building is located on the old Blaydon School site and the site investigation report discovered underlying worked coal seams beneath the building footprint. 'The discovery of coal seams was the greatest challenge that I had to face in this project' exclaims Adrian. 'This presented a major challenge for the substructure design — the solution was to drill down through the underlying rock head and into the worked coal seams, which were then filled with grout to prevent risk of collapse.' Adrian continues, 'the soft, compressible ground conditions meant that the likelihood of significant settlement was high. The foundations were supported on precast concrete driven piles with a fully suspended ground floor slab.'

In addition to the problematic ground conditions, the finished floor level of the building was raised by approximately 1.4m following the outcome of a Flood Risk Assessment. This ensured that the building remained operable during major flood events resulting from the close proximity of the River Tyne. At the request of the local authority, the design of the super structure was developed to allow for future removal of either section of the building, without detrimental impact on the retained section. A combination of glu-laminated timber, steel framing and precast concrete was used to form the superstructure and allow for future flexibility of the medical spaces.

With such a variety of uses and with such a scope for specifications and design, I then asked Adrian what part of the project that he was most proud of.

'I am particularly pleased with the double height atrium space which separates the two building uses and links the front and rear car parks providing access to the recreation field at the rear of the site.' 'The dramatic scale of the atrium provides visitors with a sense of arrival' continues an enthused Adrian 'whilst the choice of contemporary furniture and fixtures creates a welcoming and attractive space where visitors can congregate or just sit, relax and enjoy their surroundings.'

Although creating the atrium couldn't have been an easy task, as Adrian explains, 'the design of the atrium space also presented numerous technical challenges which needed to be resolved, including acoustic comfort and smoke clearance. The acoustic issues were overcome by introducing a series of sound absorbent rafts at high level and perforated plasterboard wall linings to reduce reverberation times to acceptable levels. Smoke clearance was dealt with by the provision of automatic opening ventilators and fire resistant shutters, which were interfaced with the fire detection system.'

However, Adrian's skills weren't just for the development and construction of the structure — it included a keen eye for art. 'Two prominent local artists were commissioned to provide public artwork for permanent design within the atrium' he explains. 'This included a wall mural constructed from over 400 individual pieces of coloured glass and a 2.5 metre high sculpture cast from Jesmonite resin. I was fortunate enough to have sat on the artwork committee and was instrumental in selecting the successful artists. I think the combination of a minimalist colour scheme, feature staircase, bridge link, artworks and extensive use of glass and stainless steel is a great success and provides an impressive public space'.





The leisure centre offers a wide range of facilities including a 25m six lane swimming pool, wet changing village, fully equipped gymnasium, studio, dry changing area and outdoor changing facilities. The development also includes a stand-alone energy centre, which houses the boiler plant, electrical switchgear, stand-by generator and medical gas store. Waste storage and recycling facilities are also on site.

With so much going on in this development, what does Adrian consider are the main considerations to take into account? 'When providing the technical solution to any project, it is vitally important to

consider a multitude of criteria to ensure its successful delivery. Considerations always include the careful selection of building materials. Accessibility, buildability/ease of construction, budgetary and time constraints, health and safety, ease of maintenance, carbon reduction, use of renewable energy sources and sustainable construction techniques.

'However, whilst considering all of these important points, one mustn't lose sight of the ultimate goal which is to provide the client with a building which accurately reflects the brief, is fit for purpose and maintains the architectural integrity of the

conceptual design. You also have to adapt to the project especially with designing healthcare buildings as it is also important to consider additional factors like the control of infection, patient privacy and dignity and acoustic comfort.'

Touching on sustainability, I ask is the building carbon neutral? 'The project is not carbon neutral' explains Adrian, 'however, there are many sustainable features which help to reduce the carbon footprint of the building. The client's brief stipulated that the building must be designed to achieve a minimum BREEAM rating of 'excellent'.



'To achieve this, numerous sustainable elements were incorporated into the building design. These included a dedicated energy centre equipped with gas fired, combined heat and power (CHP) plant, solar thermal panels to pre-heat domestic hot water demand, photovoltaic panels, rainwater harvesting, enhanced thermal performance and air permeability levels for the building envelope to reduce heat loss, solar reflective glass and brise soleil to prevent thermal gain. In addition to this, the M&E services have been designed to include leak detection on mains incoming services, auto-shut off to water supplies in public toilets, infra-red activation of light fittings with daylight compensation and an enhanced metering strategy to monitor mains services usage.'

Building materials were also carefully selected to minimise the environmental impact. For example, the roof is manufactured from recycled aluminium, the external walls are constructed from locally quarried natural stone and the insulation has zero ozone depletion potential and zero global warming potential.

With these sustainable measures in place, I then ask Adrian if he thinks the project would stand the test

of time. 'Yes' is the immediate answer. 'All major structural elements were designed to achieve a minimum lifespan of 60 years. All major building components, such as the roof, cladding and windows were selected so that no significant maintenance was required within 20 years. All external materials were supplied with a factory applied finish to minimise the requirement for regular redecoration. For example, the external doors and windows were manufactured from polyester powder coated aluminium to accord with the client's cleaning and maintenance regime.'

'I pride myself on my ability to analyse complex problems and develop a well thought out, technical solution using research material and knowledge gained from previous projects. It is extremely important to know your building inside out and be able to accurately describe it using drawings, schedules and specifications which other members of the design team and the contractor can easily interpret and understand' says Adrian as the interview draws to its end.

Adrian has been involved with the construction industry since the age of fourteen, working for a local building firm at weekends and school holidays.

Joining the Institute in 2002, Adrian successfully became a Chartered Member in 2011. P+HS was established in 1983 and in almost 30 years the practice has grown from small beginnings in Stokesley to become one of the top 100 architectural practices in the UK. The practice has won numerous Awards in the past.

Following the successful delivery of this project, the client, Gateshead Primary Care Trust has subsequently appointed P+HS to develop two further schemes; Houghton le Spring Primary Care Centre and St Benedict's Hospice and Adrian is responsible for the technical delivery for both of these projects.

It was the judges' unanimous decision that this was an outstanding project where the designers had demonstrated the highest standards of technical design to allow it to be awarded the Institute's Award for Technical Excellence.

Further details on the practice can be found at [www.pandhs.co.uk](http://www.pandhs.co.uk). Adrian received a certificate and cheque for £1500 at the President's Dinner Dance. A cast plaque for permanent attachment to the project will be presented during 2012.



## Highly Commended: Hall Black Douglas for Dunmurry Presbyterian Church, Belfast

A new build church, halls and manse in Dunmurry, Belfast, was the project that received Highly Commended. The new church has been designed as a single building on one level but with two principal entrances; one to serve the church sanctuary and the other serving the halls. Both lead to a central social space and have been designed to provide maximum flexibility of use and accessibility. 'We sought to create an integrated building' explains John Murphy MCIAT, Chartered Architectural Technologist, 'where as many details and aspects as possible serve more than one function, therefore creating a clean and minimal feel to the building. Equally important is the use of natural and quality materials and their detailing such as the 215mm thick curved brickwork and the creation of cantilevers to the illuminated cross on the front elevation. The specification of European oak throughout was important to ensure proper weathering and a consistent finish throughout the building.'

The church sanctuary plan is a fan-shape (which from early design drawings had radiating timber asymmetrical trusses) which is reflected in the form of the front elevation. The church sanctuary is provided with a design of a cross, executed with the arrangement of slot windows in brickwork which can be seen from within the church and also on the street front elevation. The front elevation and entrance consist of full height planar glazing 'slicing into' the brick external wall of the church sanctuary. The glazing is enclosed on the other sides with a zinc-clad foyer.

Attempts have been made to provide daylight to all areas of the church and halls complex above parapet level through a large north roof light which follows the parameter of the curved wall to the sanctuary, allowing light to drop into the space below. A second roof light is located on the lower roof over the social space.

'The greatest challenge was achieving the technical excellence required within a limited budget and within a constrained site' John continues, 'this meant great research into the right materials, products and specification in order to achieve the level of detailing required but doing so within the client's budget.' Innovation has occurred from the method of installing the stain glass windows from the existing church within a ppc aluminium frame, suspended in front of partially sand blasted glass, still to allow cleaning, to the resizing, cutting and refinishing of the original organ pipes. The underfloor heating is controlled by laptop via a web operated BMS allowing the heating to be set at the same time rooms are booked for use.

To provide the rigidity for the fanned roof structure (incorporating acoustic plasterboard panels) constructed of 14m single span locally sourced Douglas Fir, a double skin plywood skin was screwed through to form a tension membrane to allow the stainless steel end plate/fins entering the wall and joining the truss to the structural to be a slim 10mm. 'It is this part of the project that we are most proud of' beams John. Resin bound pebble flooring was to create a seamless flow throughout the social spaces which despite differing spans of structure above retained a 4.8m clear unbroken height.

'The detailing of the various components was important in order to ensure, for example, adequate drip details for the protection of the brickwork and external render' explains John, 'equally the plinth details in engineering brick help to preserve the

render at low level. This combined with the use of standing seams zinc throughout the project, which is a self coloured finish, allow the materials to weather well and improve with the test of time. The greatest influence on the design of the building would be the work of Liam McCromick, one of the last century's greatest architects in Ireland.'

'The client was delighted with the finished building and has gone on to recommend the practice for other projects. The flexibility of the interior spaces has exceeded their expectation as has the quality of the main sanctuary space. This space incorporates existing stained glass and memorials from their original 150 year old building as well as the reordering and restoration of organ pipes brought across from the original building —the history and memory of the original building has been incorporated into the new modern structure' says John as he leaves me to attend a site visit.

The judges were of the opinion that the design achieved its aims and the selected use of materials both internally and externally provided an impressive and vibrant building.

Hall Black Douglas was formed in 1986 and the practice has since developed a reputation in numerous fields including church architecture, healthcare architecture, conservation, cinemas and community buildings. Current projects include a new £50m local enhanced hospital for Omagh alongside cinema projects, doctor surgeries, church halls and welcome areas. The practice's first project in India has just been completed with an 800 seat food court interior design project in Mumbai (Bombay).

Further details on the practice can be found at [www.hallblackdouglas.co.uk](http://www.hallblackdouglas.co.uk). The practice will receive a certificate and cheque for £750. A cast plaque for permanent attachment to the project will be presented in 2012.







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Using this method of construction does have its advantages, namely, it is a super insulated shell giving U values of 0.11W/m sqK

## Commended: Richard Jack MCIAT, The Highland Council for The Rural Classroom, Farr Primary School

Having won the highly commended in the Alan King Award in 2010, Richard also achieved Commended in the Awards for 2011. 'I'm absolutely delighted about the Award' enthuses Richard, 'after 20 years in the profession, I feel very honoured that the judges had given me some recognition and the distinct possibility that I am getting it right!'

The completed project, a classroom for a school in the village of Farr near Inverness, illustrates innovative use of pre-formed structural insulated wall, floor and roof panels, which provide a high level of insulation and are clad externally as for traditional timber frame construction. There is a requirement that the Highland Council are able to expand schools

due to the increasing roll numbers in the Highland region. In order to cater for this, a model system needs to be in place so that any school can be extended sensitively to suit its environment and the pressures on CO<sub>2</sub> reduction. For this model, Richard incorporated the following; locally produced timber frame construction, geothermal heat source, materials with long life expectancy and future proof M&E design.

For its structure, structural insulated panels (SUPAWALL) have been used in the construction. It is a closed timber panel comprising two layers of OSB sheet bonded to traditional timber frame with a factory filled foam (rapeseed oil) based polyurethane insulation core. Wall, floor and roof structures can all be panelised. Using this method of construction does have its advantages, namely, it is a super insulated shell giving U values of 0.11W/m sqK, manufactured off site, all the panels are delivered to site with windows and battens pre-fitted and speedily assembled to produce a water tight envelope, pre-fabrication maximises u values and quality. It also has its disadvantages with longer lead times required for off-site manufacture and

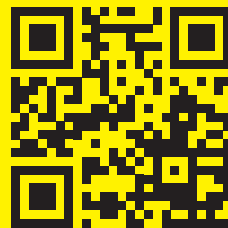
costs are average higher than conventional timber frame.

Richard's greatest challenge was to come up with an adaptable model for a classroom extension which could be placed on any site and it is this that he is most proud of – the building model works perfectly for any classroom extension. The greatest influence was the challenge to create a pleasant space for children to learn in. Sustainability has been considered from the design stage and incorporated into the completed building and includes locally produced timber frame construction, geothermal heat source and low running costs.

The Highland Council has been in existence for many years with a huge property portfolio. It is responsible for the up-keep of its property portfolio and is dedicated to continuous improvement and development of the service it provides to its individual clients.

Richard will receive his certificate and cheque for £550 with a plaque for permanent attachment to the project at a presentation later this year.

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# Alan King Award

**A high-tech extension for a Georgian house and a children's centre with a strong sense of fun are the winning entries in this year's Alan King Award. Adam Endacott, Public Relations Director, meets the members behind them and finds out about the projects.**



**T**he Alan King Award sits alongside the Open Award for Technical Excellence in Architectural Technology and recognises technical excellence in projects valued £500k or under. This Award was launched in 2005 to mark the Institute's 40th anniversary and was duly named after the Institute's first Chairman, Alan King PCSAAT HonMBIAT.

The judges were Andrew Scott MCIAT, Vice-President Technical, Mark Kennett PPCIAT MCIAT, Lawrence Coussell MCIAT and Dave Adams MCIAT.

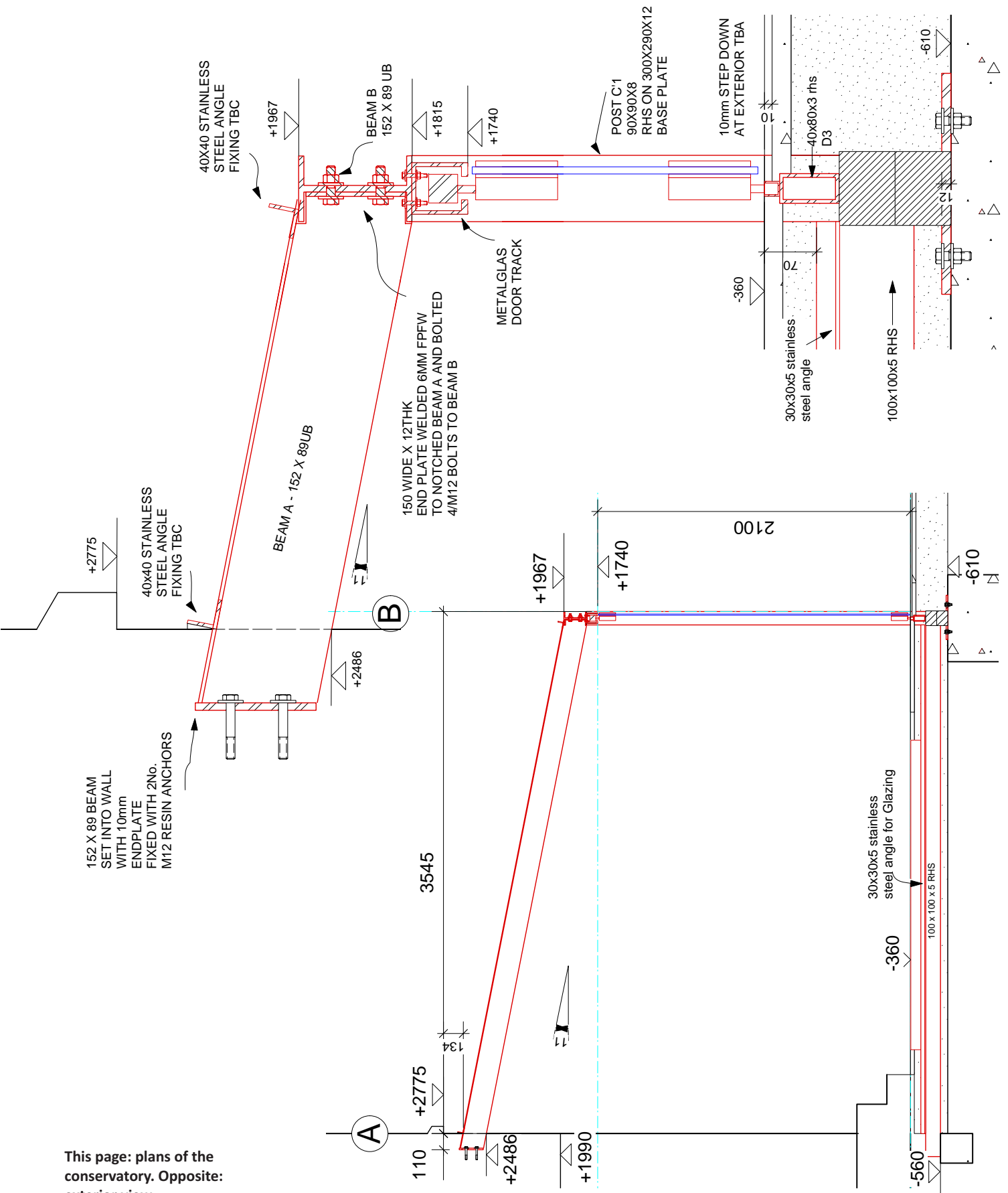
## Winner: Stephanie Hill ACIAT, Trombe Ltd

'I am delighted to have won this Award' smiles Stephanie, 'despite being a relatively small project, it was an extremely exciting one with many challenges along the way. I am pleased that the design has been recognised for its architectural complexities and for achieving its final sleek and modern look.'

Sleek and modern it certainly is. The winning project is a replacement for a semi-derelict timber conservatory. Stephanie came up with a new structure to preserve and enhance the rear elevation of a Grade II listed Georgian townhouse in North Yorkshire. The solution is both minimal and impressive and overcomes a number of technical difficulties to achieve a result that meets the client's aspirations.

'Doors!' is the immediate reaction from Stephanie when I ask her what the greatest challenge was that she faced with this project.  
*(Cont'd on p.23)*





This page: plans of the conservatory. Opposite: exterior view.



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'The greatest challenge has to have been the doors' she continues. 'Due to the location of the project and the size of the door panels, the glass had to be increased to 15mm, which is not a standard thickness to work with off the shelf door hinges. So we decided to design our own hinges!' A task which you'd think would be pretty easy. 'This in itself was a great challenge' continues Stephanie. 'The doors were incredibly heavy in 15mm thick glass and the client wanted them to fold back 180 degrees on themselves. There were various complications along the way, however we came to a design that not only achieves the desired result but looks right for the project.' Trombe worked alongside Jeff Kahane Architects as the glazing specialist for this unique project. The design evolved from the client's desire to replace a timber conservatory with the most minimal structure possible to preserve and enhance the elegance of the rear elevation of their townhouse.

The conservatory is seated on a 'battered' stone plinth and guarded by a glass balustrade which was designed so that 73% of its sides can be folded open on warm days. Although the design was simple in appearance, there were several complexities that had to be overcome. The size of the glass units and the tricky access meant that a crane had to be used to get the glass over the house and into place. Some units had to be laser cut in order to fit as tight to the stones of the house wall as possible without cutting into the Grade II wall itself. 'I'm most proud of this' says Stephanie. 'I created a template of the irregular stone wall of the house so that the glass could be cut exactly to fit!'

A slender portal frame is braced back to the rear of the building by two beams holding eight adjustable spotlights that solve the perennial problem of how to illuminate a fully glazed space. Beams and frame are clad in mirror polished stainless steel that in sunlight further helps 'de-materialise' the structure. 'The air space created between the house and

glass walls absorbs solar energy' explains Stephanie, 'and releases it selectively towards the interior at night. Being a listed building we were unable to touch the existing rear walls so no insulation was possible. Our trademark is individual bespoke design - every project is different and we do our best to make our clients brief become a reality regardless of the situation and requirements.'

With careful detailing and selection of materials this has led to a unique structure of minimal proportions which belies the extent of technical input provided. The use of low maintenance materials, with an anticipated long life and a high standard of workmanship combine to provide a facility that will be an asset to the clients for many years.

So, was the client happy with the end result? 'The client was delighted' Stephanie is also delighted to report. 'They fully understood the complexities in the design and thankfully allowed the budget to accommodate this in order to achieve the desired result.'

Trombe started out in traditional timber conservatories in 1989 and over the past ten years have developed the structural glazed side of the business. It was named after the sun-facing wall developed by French engineer Felix Trombe.

Stephanie is currently working on a large replacement conservatory in Cornwall. The property was a hotel and has been converted into a very large family home. The existing timber conservatory is being replaced with a very modern structurally glazed one, integrated with the old stonework of the building. Perhaps an entry for the 2012 Awards?

Stephanie received a certificate and cheque for £1500 and will be presented with a plaque for permanent attachment to the project during 2012.

## Highly Commended: Croft Goode Ltd for Hesketh Bank Children's Centre

I was delighted to discover that the man behind this winning entry was none other than John Bridge ACIAT, the former Student Award winner who has excelled in his chosen career of Architectural Technology and is as passionate and enthusiastic as ever. It has been several years since I met John when he was a serial entrant for the Student Award, finally winning in 2006. Now a proud father, it was good to meet him again, and to catch up with someone who was once described as a future President.

John works for Croft Goode Ltd, a practice based in Lancashire, and it is for their work on Hesketh Bank Children's Centre that they were awarded the highly commended. The children's centre is a phase three addition to the existing primary school and incorporates a reception/office, interview room and community room complete with kitchenette, furniture store and toilet facilities. The project benefitted from its collaboration with the primary school as it allows for a multi-use lobby area that can be used as a reading area on the steps up to the primary school.

The form expresses the creativity and aspiration of the Hesketh Bank children and provides an interesting environment for them with low level windows, clear open spans for the spaces within, automated high level windows for cross ventilation and access from the street is incorporated within the overall playful design of the centre; the ramp curves and sweeps up to the entrance allowing the visitor to enjoy the landscape on approach.

'The centre has been designed to purposely tell a tale of what era the extension was built in' John tells me. 'The school has organically grown over the years and we felt it important to set a standard rather than matching the existing. My trademark feature is a crisp, contemporary and sustainable design ethos which is hopefully externalised throughout my design and I have incorporated this.' How about John's influence within the construction process, where did this come from? 'The children' is John's reply, 'and of course the other end users — they were always a priority when it came to designing the facility so it was fit for purpose.'

From the planning stage to the construction stage, the centre was designed with the use of Autodesk REVIT and Building Information Modelling software (BIM). This software gave John the control to be able to make changes swiftly and globally, (*continued overleaf*)



resulting in saving time, and therefore providing added value to the client as he was able to share the geometry with ease and efficiency with other disciplines within the design team.

The substructure is concrete and concrete trench blocks, the structure is timber frame with FSC approved wood and the superstructure is rockpanel rainscreen cladding with Knauf insulation and timber window and door frames. 'The timber frame came about when we identified that the site had limited space for site storage and welfare facilities so it had a very practical purpose as well as a sustainability agenda' remarks John.

'I'm most proud of the design of the front facade and the material palette selection' he continues. 'It seeks to demonstrate the playfulness of the infants that will use the centre, as well as shouting out to the

community that the school now has a new children's centre.' A high standard of workmanship was evident and innovative detailing together with careful cost control has provided a building that achieves the client's requirements.

A dry under floor heating system was installed that was zoned to maximise the potential for phased heating, allowing rooms to be isolated when not in use. 400mm thick Knauf 'superglass multi roll 44' insulation was installed in the roof. Natural light is embraced where possible even in windowless areas with the aid of sun pipes.

'My main considerations that I always take into account when working on any project' outlines John, 'are the site context, the site constraints and then the building programme and how it could seek to discover opportunities for celebration of the exterior envelope.'

I shall leave the final words to John, 'I had heard about the Award for many years and after winning the Student Award, it was always my plan to one day compete! As I achieved Highly Commended, I may have to just compete again another year — so watch this space!'

Croft Goode Partnership was formed in 1994 and has a wide experience in the sectors of private and public housing, leisure, healthcare and restoration.

John's current projects include regeneration projects in Preston and Hull for new building affordable housing along with a leisure complex in the Lake District as well as several commercial developments in Lancashire and Cumbria. John received a certificate and cheque for £750. A plaque for permanent attachment to the project will be presented later in the year.







'It seeks to demonstrate the playfulness of the infants that will use the centre'

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Ecobuild puts all these innovative products in context through its vast information programme, making a visit exceptionally good use of time. There's the three-day, three-stream conference, sponsored by the UK Green Building Council, that tackles macro themes such as *Beyond construction: achieving a sustainable future*, *Making sustainable construction happen* and *Design, architecture and sustainability* with renowned commentators including Sir John Beddington, Monty Don, Janet Street Porter, Greg Dyke, Tony Juniper and Angela Brady, covering topics as diverse as *Growing out of trouble – how social enterprise can help restore society*, *People and the planet* and *Collaborative consumption*.

A topical addition to the programme for 2012 is an 'Olympics special' hosted jointly by the Construction Products Association and BRE in which Construction Minister, Mark Prisk and Peter Bonfield, Adviser to the Olympic Delivery Authority on materials procurement consider how, having delivered 'the greenest games ever', the learning from the development of the Olympic Park can be put to use in other developments. Later, Chief Construction

Adviser, Paul Morrell, UKTI CEO, Nick Baird and Atkins CEO, Uwe Krueger discuss the platform the Olympics legacy will create for UK businesses to apply this learning to international projects, and build further the UK's world-leading reputation in sustainable design and construction.

More applied is Ecobuild's seminar programme which delivers practical advice from experienced practitioners through over 130 sessions including 'Energy and Innovation in Buildings', 'Better through BIM', 'Buildings in use', 'Future Energy' and 'Sustainable by design'.



Visitors looking to get their hands dirty can do so at a dozen or more live attractions – literally in the case of Ecobuild's 'Natural, traditional...sustainable' which demonstrates cob wall building alongside straw bale construction and carpentry techniques.

Elsewhere on the exhibition floor Renewable Heat Focus, sponsored by Vaillant, gives daily talks and one-to-one advice on how best to benefit from the Renewable Heat Incentive (RHI) plus a showcase and working models of the latest technology including solar thermal, biomass and heat pumps.

'Renew', sponsored by Knauf Insulation, provides practical advice on achieving one of the most important aspects of achieving an energy efficient building – a highly insulated, air-tight building envelope through daily live demonstrations covering making hard to treat buildings more energy efficient, solid wall insulation, internal wall insulation, insulating lofts and floors, party wall insulation and cavity wall upgrades.

Ecobuild's Solar hub, sponsored by Solarcentury, demonstrates how the installation of solar PV still offers attractive rates of return via the UK Feed-in Tariff, despite adjustments to the Government's incentive scheme through a series of talks and presentations, plus one-to-one advice. Visitors will get practical guidance on how to specify the most appropriate system for the best results, maximise the return on investment, reduce carbon emissions and mitigate rising energy costs as well as being able to see a range of solar innovative systems from on-roof, to semi-integrated to fully roof-integrated products, and feature the latest technologies from leading modules manufacturers.

Continuing the solar theme, SolarZED by ZEDfactory puts affordable solar-powered transport at the heart of sustainable development, and challenges received thinking on the provision of high density public transport provision by proposing zero carbon personal transport as a viable option.

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