

Architectural Technology Journal

FROM THE CHARTERED INSTITUTE OF ARCHITECTURAL TECHNOLOGISTS
£6.00 - ISSN 1361-326X - ISSUE #130 - SUMMER 2019



EVENT PARTNER



WELLBEING IN CONSTRUCTION SUMMIT

CIAT
MEMBER OFFER
£149 + VAT
(Full Price £249)
QUOTE
CIAT149

2 JULY 2019 | EXCEL LONDON

TOPICS INCLUDE

- IMPROVE EMPLOYEE HEALTH AND WELLBEING
- IMPROVE THE WORKING ENVIRONMENT PROCESS
- AN INTRODUCTION TO MENTAL HEALTH FIRST AID
- BUSINESS BENEFITS OF GOOD EMPLOYEE WELLBEING

SPEAKERS ANNOUNCED



JAMES RUDONI
MANAGING DIRECTOR
MATES IN MIND



NICOLA CHAMBERLAIN
CLIENT RELATIONSHIP MANAGER
MENTAL HEALTH FIRST AID ENGLAND



TIM RYAN
DIRECTOR AND DFMA LEAD
BRYDEN WOOD

BOOK NOW
AT CONSTRUCTIONSUMMITS.COM

SAVE
£100

ASSOCIATIONS



MEDIA PARTNERS



CHARITY PARTNER



CERTIFIED BY



ORGANISED BY



Editor

Adam Endacott
 editor@ciat.org.uk
 +44(0)20 7278 2206

Advertising

Donna Chappell
 advertising@ciat.org.uk
 +44(0)20 7278 2206

Published by

CIAT, 397 City Road,
 London, EC1V 1NH UK
 ciat.org.uk

Online

in /Chartered Institute of
 Architectural Technologists
 @CIATechnologist
 /CIATechnologist
 /CIATechnologist
 /CIATechnologist

President

Alex Naraian PCIAT
 president@ciat.org.uk

Chief Executive

Francesca Berriman MBE HonDTech
 berriman@ciat.org.uk

Practice & Technical Director

Diane Dale
 diane@ciat.org.uk

**Education Director &
 International Director**

Tara Page
 tara@ciat.org.uk

Membership Director

James Banks
 james@ciat.org.uk

Printing

Optichrome

Design

Ascend Studio

Subscriptions

AT is free to all members of CIAT.
 Subscription rate for non-members
 is £30 (UK) and £35 (overseas) per
 annum (4 issues) or £6 per issue.

Publication of an article or inclusion of
 an advertisement does not necessarily
 imply that CIAT or any of its staff is in
 agreement with the views expressed
 or represents endorsement of
 products, materials or techniques. Nor
 does CIAT accept responsibility for
 errors or omissions. No material may be
 reproduced in whole or in part without
 the written permission of the publisher.
 All rights reserved. © 2019 CIAT.
 ISSN 1361-326X.



- 04 Willowbrook Care Home
- 10 Waterside barns
- 14 There's No BIM
Like Home Part 6
- 16 Bamboo Pavilion
Tensegrity Structure
- 19 Growth in heritage tourism
- 22 Rethinking the architecture
of Parliament
- 24 Salary Survey 2019
- 27 Whittam Cox: AT champion
- 30 UK Construction Week 2019
- 32 AGM and fringe events
- 34 Honorary Officer elections

FEATURES

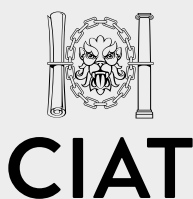
04 – 37



- 38 Conference on Architectural
Technology in Delhi
- 41 Membership Grade Review
- 44 Architectural Technology Academy
- 46 The future workforce
of the built environment
- 48 Alex's Insights
- 49 Membership News
- 51 AT CPD Register Directory

MEMBERSHIP

38 – 51





Willowbrook Care Home

Words by: James Evans, Communications & Digital Administrator

Paul Burton PPBIAT PPCIAT MCIAT, a Director at AP Architecture Ltd, is ecstatic. His projects have been finalists before for the Pinders Healthcare Design Awards, but this year, he has taken home the Award for Best New Care Home Elderly.

Willowbrook Care Home, a Birmingham residence designed for older people with dementia and challenging mental health issues was named Best New Care Home – Elderly. The judges were “impressed” pointing out that “technology is employed to good effect in allowing controlled but easy access” and that “excellent staff facilities have been incorporated into the design”.

Paul tells me that designing a care home for residents with these needs was “a real challenge”. Although care homes with a wing or part catering to those with dementia are increasingly becoming the norm, this, he tells me, was “a very different project” and the idea was to “create quite a modern feel to it”.

Willowbrook has several features that set it apart. The client, Paul says, “[had] very strong ideas of what he wanted to do... not the norm... he wanted to push the boundaries”. That certainly comes across in the design. “It really is something that’s a bit different” he says.

Space comes at a premium but has been made paramount in this project. Paul says that “one of the triggers [for challenging behaviour] can be people being on top of each other”. It was originally intended that there would be 35 bedrooms in the property, but this has been reduced to 30. Wide corridors are present so that staff can respond if they are needed to assist with an incident.



The building also houses an impressive cinema room, which is used every day by residents



Several aspects of the home have been designed in consultation with potential residents' families. Paul tells me that "wayfinding has been done in a very different way" using cast iron street signs directing residents to different parts of the building. Families have helped to develop this concept. The bedrooms have also designed with help from their input. It was paramount that future tenants had "something they could relate to" and these interventions it is hoped, will help achieve this.

The building also houses an impressive cinema room which is used every day by residents. This features plush seating and film posters designed to give the room a sense of place as well as jog residents' memories. It has a moveable wall and can become a function room – particularly useful if a family wants to throw a party for a resident.

Residents can relax in a range of settings. Bright and lively dining rooms sit alongside a quiet library area where audiobooks are played on a regular basis. Judges noted that the building's "essential clinical structure is hidden behind an aspirational palette of colours, texture and subtle wayfinding cues".



It's just hard work... do the best you can!



Paul (far left) with his award

Willowbrook also boasts an impressive garden area. It includes a pavilion that acts as a barbershop, a food shop and a bar. There are post boxes and telephone boxes which it is hoped will trigger memories. It features a rubber footpath which aims to mitigate injuries to residents from any falls.

I want to know if there were any significant challenges on this project. The site is “right next to the M6” Paul tells me. There was a significant noise problem. Windows were upgraded and rooms were fitted with acoustic ventilators. This has also had the welcome benefit of energy efficiency levels for the building.

This was the biggest challenge, alongside making sure there were “meaningful places at the end of corridors” as part of the design. It was important to make sure there were no dead-ends for residents to deal with. There is a lot to be commended in this project. I’m keen to find out what Paul is most proud of. He tells me how constrained they were (from a planning permission perspective) by the building next door – which his practice had designed some years ago. He was proud of finding a “workable solution” that allowed for the new residence to take on a more contemporary look.

The home is packed full of technology. Every bedroom has doors controlled by key fob and Paul tells me, “if the resident is capable of having control of their door, they have it”. Residents’ families can have a key fob that lets them into the building and the residents’ room only. The key fob technology not only makes getting around simpler for residents but as it also tracks staff. It is “brilliant for keeping a record of what intervention is being put in place and what is taking place” Paul tells me.

The beds have infra-red detectors so that if a resident starts to get out of bed in the middle of the night, staff are alerted so they can make sure that there is not an issue. Paul says that these kinds of technologies are the future for care homes. He has recently worked on projects with ‘acoustic monitoring’ in the bedrooms which can inform staff if a resident is rousing in their sleep. Care staff can then calm them before they break their sleep pattern. One property features lighting that mimics the conditions outside and changes throughout the day accordingly. This helps keep resident’s bodies in sync with the changes in the day and aids sleep cycles.

I want to know what advice Paul has for aspiring Architectural Technologists, keen to emulate his success. “It’s just work hard... do the best you can!” he tells me. Finding a niche or specialism, like care homes, is important. It is then important to ensure that people out there know you are good at what you do. “90% of our work is recommendation” Paul tells me. That’s quite an accolade in, and of, itself. ■



**Celebrating
Architectural
Technology at its
best, nationally
and internationally**

**AT
AWARDS**

Designed to recognise excellence in Architectural Technology globally, the AT Awards are open to all professionals, whether they are based nationally or internationally.

AT Awards event, 13 September 2019
Village Underground – tickets now available please visit: ciat.org.uk/awards.html

Hosted by MC Matt Allwright, the event will recognise the exceptional contribution that Architectural Technology practices and professionals make to the built environment.

The winners will be announced and presented with much excitement at the Village Underground – come and discover the outstanding achievement by those studying and in practice delivering creative and innovative designs.

Award categories to be presented:

Practice AT Awards

- The Award for Excellence in Architectural Technology
- The Alan King Award for Excellence in Architectural Technology for projects with a value no greater than £750k¹

Student AT Awards

- The Student Award for Excellence in Architectural Technology (Project)
- The Student Award for Excellence in Architectural Technology (Report)

Chartered Architectural Technologist of the Year

The Chartered Architectural Technologist of the Year Award is an annual Award for excellence in the technology of architecture as a Chartered Architectural Technologist.

See ciat.org.uk/awards.html to find out more

Find out more and enter at
ciat.org.uk/awards.html
#ATAwards

Waterside barns: a radical design approach

Words by Chris Senior MCIAT, PiP Architecture



Plot 3

Cambridge-based PiP Architecture, a CIAT Registered Practice, has completed the radical transformation of three neglected agricultural barns into three energy-efficient family homes fronting the riverside in the centre of Ely in Cambridgeshire.

Situated on the waterfront, just five minutes walk from Ely train station, the barns were once used for housing livestock when they were part of Lavender Farm dating back to the late 1800s. The first challenge was to retain the historic fabric and character of the barns while making them suitable for modern family life. PiP's radical solution was to remove the roof of each barn and 'drop' a new building inside the original. This allowed the new buildings to be two storeys in height, thereby taking advantage of the stunning riverside views on offer and maximising the living space available for a comfortable family home.

As the retained 19th Century barns were on shallow foundations, PiP proposed localised pad foundations and underpinning to minimise movement and disruption to the historic fabric. The design incorporated steel frames to bear the weight of the new buildings and direct load through to the ground. The structure was infilled with a stick-built timber frame that allowed quick and easy erection of the main structure; an approach that also achieved a weather tight state faster than a traditional method of construction. This methodology

also ameliorated the very tight access arrangements that prevented the use of traditional methods such as bricks and mortar or more sustainable methods such as SIP panels, which would have required the use of either lorries or a crane. To further minimise unnecessary complexity during the build, a coherent frame construction was applied to all three units.

To satisfy the requirements of the local planning authority, PiP's design presented three unique dwellings that together created a development of overall coherence. This was achieved by selecting external cladding finishes to provide variation in appearance while using a carefully considered palette of contrasting yet sympathetic materials across all the buildings.



Exterior of Plot 2



Each dwelling benefited fully from the beautiful views of Ely Cathedral



Plot 1

features a boathouse influenced design. All materials used are low maintenance and sustainable to ensure longevity and minimum environmental impact. Innovative design and construction techniques safeguard against vulnerabilities; for example, the gaps between the white American oak cladding are protected against UV deterioration by the application of RubberGard.

Throughout the development, simple innovative detailing delivers high quality finish to the design. In close collaboration with VM Zinc, the development pioneered the use of sine wave profile rain screen wall cladding on one of the roofs. This PiP groundbreaking innovation is now being imitated widely in designs across the country. The curved zinc eaves and ridge details, crucially manufactured in single lengths, were sourced through a fabrication company in the north of England. PiP believes it has a responsibility to design and build low energy buildings. It is committed to creating spaces with a focus on delivering occupant comfort by minimal means, founded upon sustainable design from the onset, through subtle, innovative solutions integrated into the architecture itself. These principals are intrinsic to Waterside.

All units within the Waterside development achieve a SAP energy efficiency rating of A. The design uses window positions and building canopies to maximise solar gain during the winter months and provide effective

solar shading during the summer. The external materials are all low maintenance and boast a proven longevity. While the simplified frame construction minimised build costs, it did so without compromising the superior finish of this showcase development.

PiP's radical development at Waterside, Ely, secured the confidence of the local authority, which gave its full support under delegated powers. With this development PiP has succeeded in forming a striking contemporary design that enhances the public experience of the riverside enjoyed by the many visitors to Ely, while respecting the traditional proportions and materials of these beautiful historic barns and preserving the sensitivity of the local conservation area and Listed buildings. ■

Project data

Start on site: April 2018

Completion: May 2019

Designers: PiP Architecture

Structural engineer: Gawn Associates

Approved building inspector: East Cambridgeshire District Council

Main contractor: Dean and Dean Construction



There's no BIM like home Part 6

Words by Dan Rossiter MCIAT

AT Journal continues its exclusive access to serialise Dan's blog on how he used BIM to produce an information model of his home.

Before I consider my BIM Execution Plan complete, I need to finish an outstanding item within my appendix; my Master Information Delivery Plan (MIDP). A MIDP is: Primary plan for when project information is to be prepared, by whom and using what protocols and procedures, incorporating all relevant task information delivery plans (TIDPs).

So (in plain language) a MIDP is a programme that includes all of the documents that will be produced on a project, and who will be producing them. To make a MIDP I'll need to first create some Task Information Delivery Plans, a schedule of documents to be produced by each team. It's project management time!

Using the BIM Execution Plan, I have broken down the work on this project into three task teams (all being done by me!):

- Architectural,
- Electrical, and
- Mechanical.

Each team was given the MS Excel template I made to list all the documents that they will be producing for my house. Luckily for me, this project is simple, so the only documents being produced by my electrical and mechanical teams are their graphical models. However, the architectural team will also be producing drawings, COBie, and some schedules. For ease of reading, I have put all of the TIDPs into a single spreadsheet.

I have aligned the column headings to column names within MS Projects so that I can import my TIDPs easily.

Secondly, I have used the concatenate function within MS Excel to pull each of the file naming fields into a single field to improve readability while maintaining control through a pick list. Once filled in, I was able to import into projects, set up the preceding files to form my critical path, and included key review dates to create my Master Information Delivery Plan.

Now that I have my MIDP, I can use this plan to manage what files are produced when and by whom. This is done two ways:

- The dates generated in projects were exported out, and then inputted back into each TIDP so that each can manage their resources using their own document, and
- I can now refer to the MIDP to make sure that each week all teams have completed the files needed so that all task teams have the information they need, when they need it.

There you have it, Master Information Delivery Plan complete! I can now manage all the files being produced for my house, my BIM Execution Plan has also now been revised to include the MIDP within the appendix. As I still haven't had my BEPs reviewed, I will continue to not consider this Plain Language Question complete.

Now that I have my MIDP, it's time to get some feedback on my BIM Execution Plan. So let's see what my peers had to say...

Following the publication of my draft BEP a fortnight ago, I decided that I needed feedback to ensure that what I have written is suitable (as I did with my EIR). Having worked on both the client and supply side in the past I am confident in my work, but it is always good to get some fresh perspectives. As such I asked a few friends in the know. I asked each of them to review my BEP as if I was procuring their services, as well as asking for any suggestions for improvement.

Feedback on my BEP



9/10

Andy Boutle

Senior BIM Manager for Kier Group, and Chair of BIM Regions – East. Andy is also a BRE BIM Level 2 Certificated Professional.

“Dan’s post-contract BEP is very well prepared – clear, concise and fully compliant to the suggested requirements set out in PAS 1192-2. The content is light in places however this is clarified and acknowledged due to the nature of the project – a residential house development where Dan is fulfilling/simulating all stakeholders. I would have liked to have seen a diagram of the ‘high level’ CDE in lieu of a process and data management platform, and a little more detail for fictitious subcontractors that may contribute to the PIM. Certainly, if more ‘BIM professionals’ in the industry refer to this example as a template to structure against, we would all see better BIM Execution Plans to a consistent standard.”



7/10

Paul Tunstall & Meenakshi Mandhar

Associate (Paul Tunstall) and BIM Manager for HLM Architects (Meenakshi Mandhar). HLM have also been recognised having achieved BRE BIM Level 2 Business Systems Certification.

“Dan’s BEP is an interesting read as it gives good guidance on completing all sections of the post contract-award BEP. A very good example of how to apply the BEP to small size projects and breaks the myth that BIM is for big projects only; I see that as the biggest strength of the blog and is highly commendable. However, as a naïve reader one aspect that may come across confusing is the involvement of fictitious task teams. ADR, MDR, KDR and EDR were used as part of the MIDP whereas other sections state that CDE and supplier assessments are not required as Dan is client, designer and operator.”



8.5/10

Dwight Wilson

Digital Engineer Manager for Imtech Engineering, and co-founder of dotBuiltEnvironment.

“Dan’s post contract-award BEP is an excellent example of how you apply and make relevant the standards within a BIM execution plan. Ensuring that they cross reference one another throughout the document provides better clarity of purpose for the suite of BIM documentation to be used on a project. If Imtech were to respond to the BEP I would be seeking clarification on methodologies of information transfer and model review and validation. This is best displayed graphically from experience and would have consolidated the well tabulated information provided within this BEP. For this reason, for me, it’s not a perfect ten but a pretty close.”

All-in-all pretty positive, although there is room for improvement. Following these reviews, I have revised my post contract-award BEP considering two key areas in particular: The fictitious roles, and transfer of information:

Fictitious roles

As Paul and Meenakshi point out, this section is not very clear and seems to conflict with other areas of the post contract-award BEP, Andy also wanted more information, so there is clearly something lacking.

Note: The plan was to invent a few roles because I am an army of one so that I could produce an MIDP; showing a clear way to manage responsibility. However, as it is just me, it makes how I authorise and exchange information much more difficult (and the fact I don’t manage a CDE). I cannot think of a clean way to resolve this while maintaining my MIDP until another organization contributes to the project, so it will remain as it is for now.

To make this section clearer short term, I have replaced ADR, MDR, EDR etc with Arch1, Mech1, Elect1, updated my MIDP to suit and have revised the text within the BEP to clarify around the relationship of these roles.

Exchange of information

As Dwight pointed out there is little information included around the exchange of information which is also something Paul had also mentioned too. Therefore, I have clarified the purpose of the scheduled software within my BEP and included the exchange of information into a high-level diagram to also satisfies Andy’s queries around clarifying Data Management.

Finally, in response to the feedback, I have:

- Updated by origin and orientation section so that my project base point is the lowest and most left point (i.e. no negative values),
- clarified the purpose of the software I am using, and
- corrected a few typo’s which I had not caught within the BEP.

It feels much more complete and robust now.

And there you have it, by gaining some much-needed insight from the industry I have now improved my BEP and got it validated too, fantastic. This means that I have now answered my BIM Execution Plan Plain Language Question; PLQ2.2 Complete!

Now that I have my finalised BEP it’s time to start producing some information, but first let’s make sure I have sufficiently considered my data security... ■

*To be continued in the next issue
@DRossiter87*



Bamboo Pavilion Tensegrity Structure

Words by Jennifer Hardi BSc (Hons) PGCE MPhil SFHEA MCIAT

Jennifer Hardi MCIAT, Project Leader and Programme Director at London South Bank University, teamed up with bamboo architect expert, Dr Andry Widyowijatnoko and other colleagues from ITB (Institute of Technology Bandung), Indonesia to build a temporary tensegrity bamboo pavilion in March.

This was a demonstration of how sustainable material, such as bamboo, can be used to create an inspiring structure. This work is a continuation of research funded project through Royal Academy of Engineering and HEFCE (now Office for Students) that Jennifer is leading in relation to multi-disciplinary collaborative working in BIM, and in designing sustainable waste recycling facilities to tackle solid waste management in a coastal tourism area in Indonesia.

The bamboo workshop was carried out at London South Bank University and over three days period, 40 students and ten colleagues from various disciplines, ranging from Architectural Technology, architectural engineering, structural engineering, building surveying, civil engineering, construction management and research enterprise team, joined forces in lending a hand (or two) and providing some emotional support in building the bamboo pavilion.

With the confirmation of design received only two weeks before the D Day for construction, clear communication and multi-disciplinary collaborative working plays a crucial role in making sure that the project is delivered on time.

The first challenge occurred when a decision needed to be made on the most robust foundation for this temporary structure. A concrete foundation was proposed but with such a short time-span, and health and safety issues in getting the concrete foundation to cure in such a short timeframe and transport it to the site (right next to the Student Union bar), this was not deemed to be an ideal solution.

The second proposal was to use a thick steel beam as the foundation for the structure but due to budget constraint this was quickly set aside. A third most feasible and sustainable solution was to re-use/re-purpose a concrete testing beam available in the engineering lab as the foundation for the bamboo structure.



Raising awareness of innovative sustainable materials through multi-disciplinary collaborative working





**Bamboo Pavilion Structure,
Constructed in March 2019**

**Designed by: Andry Widyowijatnoko
from Institute of Technology
Bandung, Indonesia**

**Project Leader: Jennifer Hardi from
London South Bank University, UK**

Day two of the bamboo workshop shows further work being done in the tensegrity roof as well as the columns to support the roof. The bamboo grid was secured preliminary with tapes so that it was secured and in place before the steel wires were applied onto each pole.

Day three was the biggest challenge in terms of lifting the tensegrity bamboo roof up onto the supporting bamboo poles. With the use of a forklift out of the question, due to the difficulty in lifting the bamboo roof up while maintaining its stability, a decision was made on relying solely to brute strength.

About Tensegrity Structure

Tensegrity is an abbreviation of tensile and integrity. It is also known as tensional integrity or floating compression with structural principle based on the use of isolated components in compression inside a net of continuous tension, in such a way that the compressed members do not touch each other and the pre-stressed tensioned members delineate the system spatially.

The picture to the right shows the tensegrity design of the bamboo pavilion by Dr Andry Widyowijatnoko that was built at London South Bank University. The core tensegrity roof was supported with bamboo columns, timber base and re-purpose concrete beam as foundation for the structure.

Tensegrity structure is a structure consists of two elements: tension member and compression member where the compression member does not connect with each other. Metal wire was used in this design and construction to act as the tension member and the bamboo poles were used as the compression member. Wires were strengthened in the construction process to provide a rigid and stable structure. ■



Jennifer with the completed structure



The Growth in Heritage Tourism

Words by Toni Page MCIAT CIAT-Accredited Conservationist

There is no doubt that more people are visiting heritage buildings and sites in the UK than ever before.

By ‘heritage buildings’, I mean older buildings which meet the Historic England (HE) definition of listed buildings,⁰¹ which are buildings of special historic or architectural interest generally. Historic England state that “all buildings built before 1700 which survive in anything like their original condition are likely to be listed, as are most buildings built between 1700 and 1850.”⁰² In the UK there are hundreds of such buildings. The Historic Houses Association (HAA) has 330 buildings⁰³, the National Trust (NT) over 500⁰⁴ and English Heritage (EH) over 400 buildings, sites and monuments⁰⁵.

Evidence that Heritage Tourism is growing is compelling. In 2017/18, English Heritage sites had over 6.5 million visitors, an increase of 10% from the previous year.⁰⁶ These visitor numbers are dwarfed by the number of people visiting NT and HHA sites and buildings: the NT had 22.9 million visitors⁰⁷ and HHA had 26 million in 2017.⁰⁸ Membership of all three bodies has also risen. NT currently has over 4.9 million members in England, an increase of 8% since the previous year. In 2018, there were 1,138,000 members of EH, an increase of 5% since the previous year. HHA membership increased by 2.5% between 2017 and 2018 to 51,990 members⁰⁹.

What is driving this increase in heritage tourism? I think we have become more interested in the history of sites and buildings – although here in the UK, there has been an established love of old buildings for over a century. For example, the Society of Protection of Ancient Buildings (SPAB) manifesto to protect old

buildings was written by William Morris all the way back in 1877¹⁰, and the National Trust formed in 1885. Whilst the UK’s love of old buildings may be long-held, the last 20 years has seen the public’s interest piqued by recent innovations in technology that has enabled further and deeper understanding of a building’s history. Survey techniques have improved; virtual reality and drones can provide images never seen before. For example, EH has been using virtual reality since 2017 at St Augustine’s Abbey¹¹. Display areas are provided to share knowledge with visitors, and exhibits have become more hands on. This brings the history of the place to life; I suspect people get more from their visit and go on to visit new places too.

There is now much increased website presence and marketing of historic properties. This helps bring not only home-grown visits but overseas visitors too. The HAA reports that 81% of inbound UK tourists state that visiting historic houses and castles is the reason they come to the UK.¹² The Tower of London had 2,842,970 visitors in 2017 which made it the most visited attraction closely followed by Stonehenge (5th), St Paul’s Cathedral (6th) and Westminster Abbey (7th)¹³ with more historic places in the top ten.

Visitors can now enjoy more facilities too. There has been a trend to improve the visitor experience by providing WC facilities, cafes and play areas to make a visit much more family friendly; children can use the park whilst the older generation can use the cafe. Events are also planned on specific days such as the Festival of History or St. George’s Day which are annual

events at Wrest Park. I have seen this first hand whilst working on projects to provide new café and play areas at Wrest Park in Bedfordshire and Audley End, Essex both owned by EH. More information on these projects can be found at rpartnership.co.uk/.

Is it good for the buildings and site to have lots of visitors? The obvious positive is the additional income that comes with visitors from paying the entrance fee and buying food or souvenirs. This money can be invested back into looking after the property and the grounds: a considerable boost to funding. These visits can also inspire the next generation and pass on valuable knowledge, EH reports that in "2017/18, more than 304,000 schoolchildren explored our sites."¹⁴ It also provides employment. Historic Scotland report that "60,000 jobs – 2.5% of Scotland's total employment"¹⁵ is from their historic sites whilst HE report that Heritage is an important employer in England with a job total over 459,000¹⁶. There are also many volunteer positions, over 3,000 for EH alone.



References

1. Historic England "Heritage and The Economy 2018" October 2018
2. English Heritage "Annual Report 2018/2018"
3. Historic England "Heritage Indicators 2018" December 2018
4. National Trust "National Trust Annual Report 2017/2018" 2018

The negative side is the intrusive nature of a new cafe or car park on the site and wear and tear from visitors. The maintenance of the site and property increases with more visitors, for example paths need re-surfacing and night-time lighting, floors wear out and staff need to be provided to support the visitors. This has a considerable impact on a site and needs to be carefully considered and managed so as not to be detrimental to the overall character of the site.

On balance, I feel it is far better that these properties are visited and used, but crucially in a managed and considerate way. The positive impact on the economy, knowledge being passed on to the future generations, and the general sense of well-being from visiting these sites is hugely beneficial. I look forward to my next visit to a historic site!

Toni is a CIAT-Accredited Conservationist, to find out more about the Accredited Conservationist Scheme and how you could qualify please visit: ciat.org.uk/membership/specialist-registers-cenv-con.html ■

Notes

⁰¹ 378,360 listed buildings in total in England as noted in historicengland.org.uk/content/heritage-counts/pub/2018/hc2018-heritage-indicators/

⁰² historicengland.org.uk/listing/what-is-designation/listed-buildings/

⁰³ historichouses.org/

⁰⁴ nt.global.ssl.fastly.net/documents/annual-report-201718.pdf

⁰⁵ english-heritage.org.uk/

⁰⁶ english-heritage.org.uk/siteassets/home/about-us/annual-reports/eh-annual-report-2018_-web.pdf

⁰⁷ english-heritage.org.uk/siteassets/home/about-us/annual-reports/eh-annual-report-2018_-web.pdf

⁰⁸ historicengland.org.uk/content/heritage-counts/pub/2018/hc2018-heritage-indicators/

⁰⁹ historicengland.org.uk/content/heritage-counts/pub/2018/hc2018-heritage-indicators/

¹⁰ spab.org.uk/about-us/spab-manifesto

¹¹ english-heritage.org.uk/about-us/search-news/new-virtual-tour-of-St-Augustines-Abbey/

¹² historichouses.org/uploads/assets/uploaded/1541fa21-8b45-41b7-b9f9a591a1d16b27.pdf

¹³ visitbritain.org/annual-survey-visits-visitor-attractions-latest-results

¹⁴ english-heritage.org.uk/siteassets/home/about-us/annual-reports/eh-annual-report-2018_-web.pdf

¹⁵ historicenvironment.scot/about-us/who-we-are/why-is-the-historic-environment-important/

¹⁶ historicengland.org.uk/content/heritage-counts/pub/2018/heritage-and-the-economy-2018/

Subscription Renewal 2019/20

Have you paid yours?

Renewing your membership subscription could not be easier via direct debit, the website, bank transfer, cheque or credit/debit card.

Subscriptions are due for renewal on 1 May annually.

Paying your subscription

- Spread the cost by setting up a Direct Debit for payment in ten equal monthly instalments or one annual instalment.
- Pay online by credit or debit card.
- You may qualify for a concessionary subscription fee if you are on a low income, unemployed or retired. For full details email membership@ciat.org.uk

What if I don't renew?

If you decide to not renew your membership, you will be lapsed on 7 November 2019.

Membership re-instatement after 7 November for the 2019/20 period will incur a £25/€30 fee.

If you have any queries then please contact finance@ciat.org.uk

We all have a role to play in the continuing growth and evolution of our discipline, profession and Institute – continue your part by renewing your membership today!



Alex Naraian PCIAT

Could rethinking the architecture of Parliament help end current political Brexit deadlock?

Words by Axiom Architects

Collaborative, open plan spaces where MPs work together for the greater good – welcome to what politics in the UK could look like.

The concept

This clever series of concept designs have been created by the architectural practice Axiom Architects, who believe tackling the confrontational design of Westminster itself could help politicians break the current deadlock over our EU departure. The images visualise a Palace of Westminster redesign that embraces openness and collaboration. The practice wonders whether the architecture of Parliament is still fit for purpose and could even be to blame for our fractured politics.

Axiom Architects, an architecture and interior design practice has reimaged the Palace of Westminster – adding a new central debating assembly and proposing alternative uses for the existing buildings. The designs directly contrast the existing adversarial setup of Parliament. The current debating chamber is configured with opposing sides facing one another; the building uses dark timber panelling and has no natural light or view to the outside.

The new Central Assembly Hall is large and circular, promoting collaborative rather than confrontational debate. Big Ben has been repurposed as a modern communication tower, with digital screens displaying news updates about what's going on inside Westminster. The design would enable correspondents to report from directly inside the tower, emphasising the focus on open communication. Victoria Tower – currently the Queen's entrance – has been repurposed into flexible co-work and co-living spaces for the media and members of Parliament to use. On the north side there are flexible offices leading out to the Thames. Each tower has an inclusive, flexible working environment. There are also garden public amenity areas – quieter quads for times of reflection and smaller group meetings. Axiom Architects Partner James Mitchell said: "At the moment, the buildings are shrouded by high walls and



Figure 01

are totally impenetrable. Our designs seek to make the buildings as permeable and accessible as possible. We want to encourage collaboration and openness, rather than division and conflict – which are exactly the qualities we need in this increasingly uncertain political climate.

"We feel that our modern definition of democracy is not reflected in the current architecture of London's Parliament buildings. "There's no doubt that the built environment affects the culture of a society, so the architecture of Westminster surely sets the tone for our nation's politics. With its nooks, crannies and antagonistic layout for debate, Westminster encourages secrecy, tension and conflict in politics. "We're not saying that changing the architecture of Westminster will resolve Brexit overnight, but embracing a more democratic style of architecture could help promote more productive political discourse."

Commenting on the current layout of Westminster, Mitchell added: "Our reimagining of Parliament is a response to the archaic arrangement of the current buildings and spaces – an attempt to burst the Westminster bubble. There's a reason people call it a bubble and we believe the architecture is part of the problem. "Our designs are in total contrast to the rigid solid walls of the House of Lords and the House of Commons, with no natural light and huge impenetrable doors. These buildings obviously served a purpose at one point, but do they now encourage the transparency we need in Government?"

The design would enable correspondents to report from directly inside the tower





Figure 02

Technology and materials

The Houses of Parliament is a Unesco world heritage site, an iconic architectural monument loved by millions of people around the world. It is still a functioning parliament, but one which is in desperate disrepair. With leaking roofs, terrible plumbing, crumbling foundations, the building is fundamentally unsafe, and not fit for purpose. The Palace of Westminster is due to undergo a refurbishment project from 2025, and is set to cost at least £3.5bn. This will see MPs relocated for at least six years.

Respecting the gothic structure and building is fundamental to the philosophy of the new design. The new central debating assembly uses a lightweight tension structure, spanning the old structural walls, with glass forming the enclosure. Intermediate spaces in the roof are connected with a lightweight transparent membrane. The use of a lightweight structure enables large parts of the existing structure to be retained.

Responding to the concept, trying to create transparency and volume is a fundamental theme through the design. Intervening in the external envelope through a series of steel structural columns and beams, while retaining the existing buttresses, the 'doorways' are replaced with glass. Beyond the new public space, looking towards the proposed assembly, large spans enable sight lines and create a visual relationship with the public and politicians debating in the chamber.

This technique can also be seen in the British Museum and King's Cross Railway Station. It is a way of bringing the outside in using glass and lightweight structures to promote transparency. Lines of sight, large windows, thoughtful lighting, accommodating spaces are all techniques known to make built environments safer and more collaborative. Most assembly buildings are designed with circular debating chambers that encourage positive collaboration and openness. This form – also known as a 'hemicycle' – is used in the European and Scottish Parliaments, the Welsh Assembly and even City Hall in London. The syntax of Parliament – e.g. 'houses', 'chambers' – has impersonal and traditional connotations. In contrast, the definition of assembly – "a group of people gathered together in one place for a common purpose" – suggests collaboration and democracy. ■

Figures

1. View of the chamber from the public perspective.
2. Aerial overview of the Westminster site – showing the transparent roof of the Central Assembly Hall, public entrance and public space, with raised walkway and visibility into each component of the new site.

Salary survey 2019

Words by Dorota Fitzpatrick, Assistant Membership Director

In 2018, CIAT undertook a salary survey of its UK based members with a positive response rate of 23%.

The key objectives of the survey were to:

- support members to benchmark their remuneration accordingly by their employers and map career development path to higher earnings;
- improve our ability to inform and report to current and future Architectural Technology professionals of their potential earning capability;
- inspire members to progress within CIAT and its membership structure;
- utilise data for promotion via all relevant mediums on the profession and demand from industry for our members; and
- external promotion campaigns and purposes.

Demand

The need and demand for the Architectural Technology discipline and professionals maintains its continued growth nationally and internationally, with Chartered Architectural Technologists enjoying near full employment.

Over 91% of respondents across all grades are in full time employment and 75% of Chartered and Associate members work within the Architectural Technology/ architectural practice sector

Challenges

However, there are challenges ahead. There is concern in the built environment sector surrounding the impact of the Brexit impasse and the ongoing skills shortage in the sector, which will worsen if skilled EU citizens face greater barriers to working in the UK.

Academia and industry face the challenge of addressing the industry's skills gap and must collaborate more closely in order to respond to the needs of the sector and society. As an Institute, we continue to endorse and promote inclusive and accessible routes to a rewarding career within the discipline, which include the Government's Trailblazer apprenticeship scheme.

As well as tackling the skill shortage, a change in culture within the sector is needed immediately – complacency must become unacceptable and people should be aware that events similar to the Grenfell tragedy are still possible. The long-term and significant implications to the industry following the publication of the Independent Review of the Building Regulations and Fire Safety will affect the whole industry, and CIAT is actively involved as one of the lead professional bodies within the Review.

Similarly, CIAT has had significant input into the Cole Report (Scotland) following the construction failures at a number of schools in Scotland. Both tragic events highlight the critical need for holistic and collaborative working in our sector.

Future

Looking ahead, Architectural Technology professionals should continue to enjoy the high rates of employment, diverse global opportunities and rewarding careers. Architectural Technology professionals bring a unique and invaluable set of knowledge, competence, experience and professionalism to each project and should quite rightly be able to demand a remuneration which is in line with their professional peers based on the expertise they bring to the project.

Average (mean) UK salaries

£45,462

Chartered Architectural Technologists

£39,285

Professionally Qualified Architectural Technicians

£33,286

Associate members

Trends and opportunities

Two emerging job roles for Architectural Technologists with a healthy remuneration package were:

- Design Manager
- BIM Manager/Co-ordinator

The majority of Associate members and profile candidates agreed that qualifying with CIAT would help raise their profile and have a positive impact on their future earning capacity and current remuneration. 25% of surveyed employers reported finding AT/CIAT qualified staff was fairly easy. This is supported further by the Institute's job board, CIAT|jobs.



£30k–£50k

Earnings for the majority of Chartered Members

£35k–£40k

The modal UK salary in 2018

Salaries breakdown by membership grade

The chart below details members' modal earnings across all grades, and it shows that the majority of Chartered Members earned between £30,000–50,000 and Associate members earned between £25,000–40,000.

The modal UK salary in 2018 was £40,000–45,000. In comparison, the global modal salary of all members in 2012 of £35,000–40,000.

5% or more increase in their salaries in the past year was reported by:

- 19% of Chartered Members
- 27% of Associate members
- 42% of profile candidates

31% of surveyed Chartered Architectural Technologists also said their salary had increased as a result of being qualified by the Institute. ■

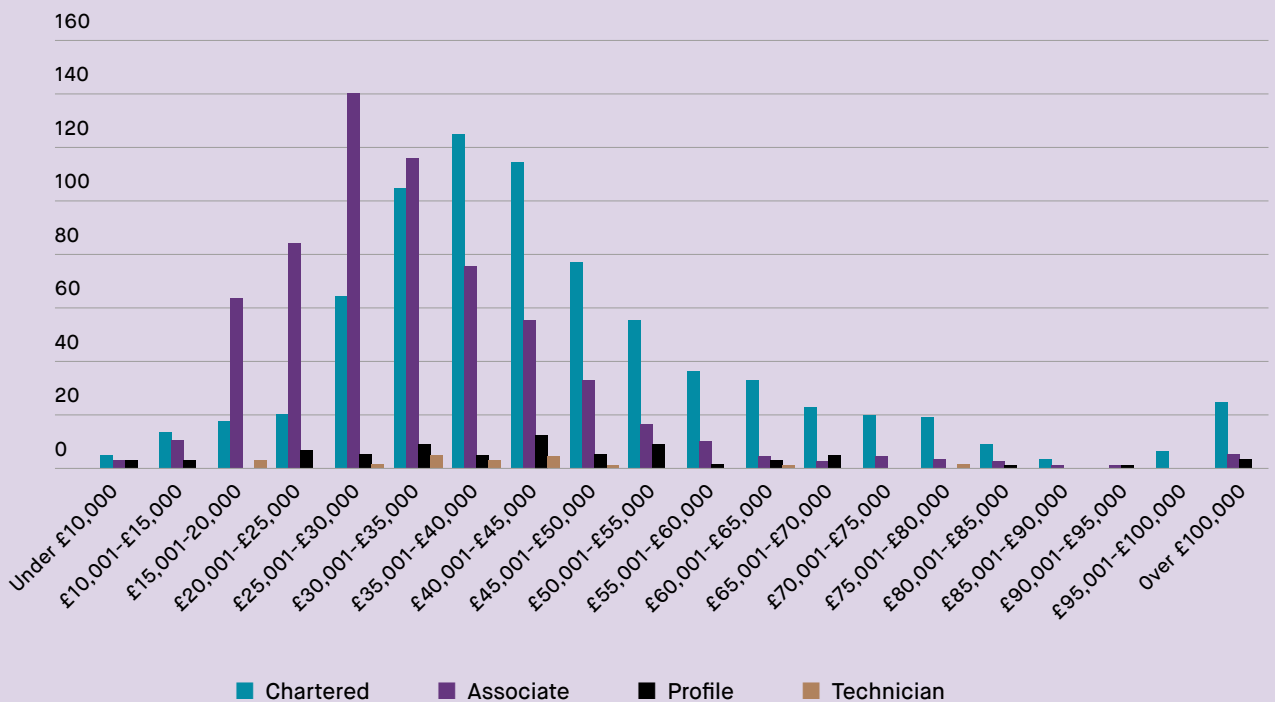
The top three functions/project types delivered by respondents' organisations were:

- New build
- Residential
- Commercial

Top three specialisms were:

- Principal Designer/CDM
- Building Information Modelling (BIM)
- Conservation

Modal gross salary range (&) by membership grade



Chartered Architectural Technologist earnings based on their job titles and geographical location

Northern, Yorkshire & North West

Job title	£ Range	£ Average*
Chartered Architectural Technologist	20,000-80,000	41,000
Managing Director	36,000-85,000	54,000
Partner	41,000-55,000	48,000
Director	26,000-85,000	53,000
Technical Director	41,000-50,000	45,000
Associate	36,000-65,000	45,000
Associate Director	36,000-80,000	58,000
Project Manager	31,000-75,000	55,000
Design Manager	41,000-85,000	59,000
Senior Architectural Technologist	31,000-65,000	48,000
Architectural Technologist	21,000-50,000	36,000
Architectural Technician	31,000-40,000	36,000
Senior Architectural Technician	41,000-60,000	51,000

London, Central & South East

Job title	£ Range	£ Average*
Chartered Architectural Technologist	20,000-80,000	49,000
Managing Director	26,000-80,000	53,000
Director	25,000-85,000	58,000
Technical Director	50,000-90,000	72,000
Associate	35,000-60,000	47,000
Associate Director	46,000-75,000	62,000
Project Manager	36,000-80,000	58,000
Design Manager	51,000-100,000	70,500
Senior Architectural Technologist	26,000-60,000	46,000
Architectural Technologist	31,000-50,000	42,000
Architectural Technician	31,000-35,000	33,000
Senior Architectural Technician	36,000-40,000	38,000
Professionally Qualified Architectural Technician	31,000-85,000	59,000
BIM Manager/Co-ordinator	36,000-75,000	57,000

East & West Midlands

Job title	£ Range	£ Average*
Chartered Architectural Technologist	20,000-80,000	43,000
Managing Director	30,000-80,000	51,000
Partner	40,000-90,000	65,000
Director	30,000-65,000	48,000
Technical Director	76,000-80,000	78,000
Associate	26,000-50,000	42,000
Associate Director	46,000-85,000	64,000
Project Manager	26,000-60,000	44,000
Design Manager	31,000-65,000	53,000
Senior Architectural Technologist	21,000-55,000	39,000
Architectural Technologist	26,000-35,000	31,000
Architectural Technician	26,000-30,000	28,000
BIM Manager/Co-ordinator	41,000-45,000	43,000
Senior Design Manager	76,000-80,000	78,000

Channel Islands

Job title	£ Range	£ Average*
Chartered Architectural Technologist	26,000-60,000	44,000
Managing Director	56,000-60,000	58,000
Technical Director	51,000-55,000	53,000
Project Manager	56,000-60,000	58,000
Senior Architectural Technologist	41,000-45,000	43,000

East Anglia

Job title	£ Range	£ Average*
Chartered Architectural Technologist	26,000-100,000	48,000
Managing Director	65,000-100,000	83,000
Partner	66,000-70,000	68,000
Director	35,000-75,000	62,000
Technical Director	41,000-45,000	43,000
Associate	31,000-55,000	44,000
Associate Director	56,000-60,000	58,000
Project Manager	46,000-100,000	67,000
Senior Architectural Technologist	26,000-65,000	42,000
Architectural Technologist	36,000-40,000	38,000
BIM Manager/Co-ordinator	66,000-70,000	68,000

Scotland East & West

Job title	£ Range	£ Average*
Chartered Architectural Technologist	25,000-50,000	38,000
Managing Director	21,000-100,000	50,000
Partner	46,000-50,000	48,000
Director	40,000-80,000	63,000
Technical Director	41,000-80,000	65,000
Associate	21,000-45,000	33,000
Project Manager	41,000-75,000	58,000
Design Manager	41,000-70,000	58,000
Senior Architectural Technologist	21,000-40,000	34,000
Architectural Technician	26,000-40,000	33,000
Senior Architectural Technician	31,000-40,000	36,000

Wales

Job title	£ Range	£ Average*
Chartered Architectural Technologist	26,000-85,000	46,000
Managing Director	45,000-55,000	50,000
Director	31,000-85,000	53,000
Technical Director	36,000-40,000	38,000
Associate	36,000-40,000	38,000
Associate Director	51,000-55,000	53,000
Senior Architectural Technologist	26,000-45,000	37,000
Architectural Technologist	46,000-50,000	48,000
Senior BIM Communicator	41,000-45,000	43,000

Northern Ireland

Job title	£ Range	£ Average*
Chartered Architectural Technologist	20,000-65,000	38,000
Director	31,000-40,000	36,000
Associate	31,000-35,000	33,000
Associate Director	31,000-35,000	33,000
Senior Architectural Technologist	26,000-45,000	36,000
Architectural Technologist	31,000-35,000	33,000
Architectural Technician	26,000-35,000	31,000
Senior Architectural Technician	31,000-35,000	33,000
BIM Manager/Co-ordinator	31,000-35,000	33,000

Wessex & Western

Job title	£ Range	£ Average*
Chartered Architectural Technologist	20,000-80,000	43,000
Managing Director	30,000-75,000	49,000
Partner	46,000-50,000	48,000
Director	20,000-65,000	46,000
Associate	16,000-55,000	42,000
Associate Director	21,000-45,000	32,000
Senior Architectural Technologist	26,000-55,000	42,000
Architectural Technologist	31,000-35,000	33,000
Senior Architectural Technician	31,000-45,000	39,000
Design Manager	41,000-70,000	56,000



Whittam Cox: AT champion

Words by James Evans, Communications & Digital Administrator

Whittam Cox Architects, a medium-sized practice headquartered in the Sheffield City region, employs more Chartered Architectural Technologists than any other practice in the UK.

CIAT were keen to learn what it is like to work there and what role Architectural Technology and Technologists play in its day-to-day operations. Their offices are both sleek and welcoming. Three distinct ‘studios’ sit alongside one another in a large open plan space. There are breakout areas available. A garden and allotments are also present; created and maintained by employees. I am conducting the interviews in a boardroom — one of very few ‘walled off’ spaces. There is clearly a focus on collaboration.

I get a strong sense that people enjoy working at the practice. The first interviewee I speak to Luke Adin MCIAT is a Team Leader and has been at Whittam Cox Architects for over 11 years, throughout the interview he praises the inclusive culture and supportive nature of the practice. Dave Savage, a Board Director and Director of Learning and Development has spent even longer at the practice (he’s clocked over 26 years in total) and thinks he can pinpoint why employees tend to remain at the practice. He talks about a family culture, “people get on, there is a level of friendliness. The practice promotes a collaborative culture; there’s always a collective desire to do the very best.”

Coming from the Institute, I’m keen to learn why the practice employs so many CIAT members. One reason seems to be that the practice understands and values the work of its Architectural Technologists and the

commercial and technical level of thought in their work outputs. Dave expands on this, “The nature of the work we do demands that we have expertise at all levels, particularly at the interface of design and technology and buildability.” I am delighted to learn that the practice is also enthusiastic to promote the profession of Architectural Technology through their corporate and social responsibility (CSR) initiatives.

Zoey Nutt MCIAT, who has been at the practice for 14 years is a student coordinator. She regularly visits schools within the community to inspire the next generation of Architectural Technology professionals, as she worries that they misunderstand the profession. “Opening their eyes and helping them to understand the profession at a young age is vital.”

What is being a Chartered Architectural Technologist like at Whittam Cox Architects? As a Technologist the practice certainly don’t hold you back” says Chris Hand MCIAT. On the contrary, they empower Technologists. Lewis Meakin, a Technologist working towards his Chartership describes his current ‘day-to-day’ work at the practice. He is currently working on one of the practice’s retail schemes. Over the course of a day he might work on drawings, correspond with various people on site, collect information from subcontractors and collate information from different parties. It’s varied work.

The practice also has a learning and development forum, which is made up of individuals who have an interest in encouraging employees to improve their skills



Another interviewee, Joshua Kaye, who is also working towards his Chartership, tells me there isn't such a thing as an 'average day' at Whittam Cox Architects. He is currently working as part of the team who are managing the construction process on one of the practice's largest residential projects (Royal Wharf in London) where the work is exciting and varied. One of those at the heart of the push towards individuals'

Chartership is Zoey. She has been a Chartered Member herself since August 2014 and is a big advocate for Chartered Membership. She mentors those who are going through the process. Zoey looks over their application forms and portfolios to ensure they have the best chance of getting through their interviews. Moreover, she also actively "suggests [Chartership] to people who maybe haven't thought about being Chartered". Several interviewees praise her assistance.

The practice also pays members' fees and supports them in getting the breadth of experience they need. Natasha Coles MCIAT, who received her Chartered Membership four years ago and is an active member of Institute tells me that the practice actively encourages everyone to go forward with Chartership.

Employees at Whittam Cox Architects are not just supported when going through the initial process of Chartership. The practice runs regular CPD sessions in-house which all staff are invited to attend to help continually advance their personal skills and proficiency. Luke tells me that they have "a really good CPD regime here". A speaker will be in the office at least once a week. Chris adds, "If I'm in the office, I go to every single one".



Additionally, the practice has a 'Technical Forum' where individuals from across the company meet to share their experiences and best practice. The group investigates topics primarily focused on building and design based technical issues. Shared learnings from the forum are recorded in a series of technical guidance documents that are shared with the rest of the team. The forum is clearly something staff value as it is mentioned at various points by several interviewees.

The practice also has a learning and development forum, which is made up of individuals who have an interest in encouraging employees to improve their skills and knowledge to achieve their full potential. All training requests — including those that arise from appraisals — are discussed and considered here and help inform the CPD programme for the practice. They are also responsible for overseeing work experience placements.

I am also pleased to learn the practice supports Chartered Architectural Technologists that are keen to play an active role within the Institute. Natasha has served as Chair of the Yorkshire aspirATion Group and tells me that the practice gave her time to take on this role. As part of it she was also nominated and shortlisted for Best Woman Architectural Technologist at the prestigious European Women in Construction and Engineering (WICE) Awards. She is now Regional Councillor for the Yorkshire Region.

What is the future for Whittam Cox and its team? The practice has, in recent years, diversified. It was primarily focussed on retail developments but has taken on several residential projects. It is now focussing on further developing these core sectors, whilst seeking to further diversify into other markets such as leisure, commercial and logistics. Wherever the practice chooses to go next, it does so with a well-supported workforce — packed with Chartered Architectural Technologists — that will surely do its best to ensure the practice succeeds. Whittam Cox Architects is undoubtedly one to watch! ■



Top five practices
employing Chartered
Architectural Technologists
in descending order:

1. Whittam Cox Architects
2. Stride Treglown
3. P+HS Architects
4. FaulknerBrowns Architects
5. Bailey Partnership





UK Construction Week 2019

An innovation advisory board made up of construction clients, contractors and consultants has met to shape how innovation is placed at the heart of this year's UK Construction Week supported by CIAT.

It will also assist in scrutinising the latest projects, products and technologies being pitched for a new 'Innovation Zone' at this year's UK Construction Week event in October. UK Construction Week is the UK's largest construction event. Last year's show was attended by 34,012 delegates, featured 350 speakers delivering 300 hours of content, and more than 650 stands covering over 70,000 square metres providing launches, demos and offers on more than 10,000 products.

Now in its fifth year, UKCW will return to the NEC in Birmingham once again on 8-10 October 2019. It is free to attend and consists of multiple sections: Build, Building Tech, Civils, Energy and HVAC, Surface and Materials, and Timber. It also features the newly launched Concrete Expo (8-9 October only) and Grand Designs Live (9-10 October only). Following a successful inaugural year in 2018, the UKCW Role Models initiative is also back for 2019 and has had quadruple the amount of submissions.

The Role Models are chosen from all parts of the industry, identified as inspiring people who have a strong story to tell and can help to attract others into similar roles. They also act as mentors. Last year's Role Models have been out visiting schools and meeting young people to encourage them into construction as a rewarding career. They have also been promoting equality, diversity and inclusion in construction.

The shortlist for this year's Role Models will be announced on 24 May, and the overall winner on 8 October. One of the biggest draws to the show has always been its free CPD programme. This year there will be more than 150 hours of CPD content available. The programme will take on a different theme for each day

of the show, tackling fire safety, health and wellbeing and sustainability. There will be a dedicated timber programme of talks organised in association with TRADA. The backdrop to these talks will be a timber installation designed and built by internationally renowned Kinetech design, specialists in folding flexible design.

Other seminar spaces around the event will deliver bespoke content, including the Digital Construction Hub, Surface and Materials Hub, Offsite Theatre, just some of the 20 features in UKCW 2019.

The social side is also being promoted. Networking doesn't have to be formal – it can be carried out in the VIP Lounge or in the more relaxed environment of the Beer Festival. Thanks to its success last year, Rockaoke is back on the Wednesday night to help break the ice. There will be live music, street food and the Gin and Fizz bar also on hand to help visitors mix and mingle during the three-day show.

Nathan Garnett says:

"We hear time and time again that organised meetings and chance encounters at UKCW have created valuable new business for visitors. If you work in the construction industry, it is a must-attend event due to the calibre of the attendees which it attracts. The bulk of visitors are senior managers, 85% are authorised to spend, there are over 34,000 trade buyers under one roof working on more than 471,000 live projects, making UKCW a £50 billion-pound market place. It makes sense to register for UKCW and to meet your market in person." By registering once visitors will have access to all sections of this year's show. Registration opens on 1 June. ukconstructionweek.com ■

UK CONSTRUCTION WEEK | 2019



8-10 OCTOBER | NEC | BIRMINGHAM

**Register
FREE**



The UK's largest built environment event

INNOVATION | PRODUCTS | LEARNING | NETWORKING



Modern Methods of Construction



Digital / BIM



Fire Prevention



Health & Safety

ukconstructionweek.com

#UKCW2019 | @UK_CW



SPONSORS



AGM and fringe events

Glasgow, 2019

Saturday 9 November

The AGM weekend will be taking place this November in Glasgow, *AT Journal* looks at the full details of the events taking place.



Book early
to secure
your place

TBC

Annual General Meeting

Saturday 9 November

10:00 (subject to change)

200 SVS, 200 St Vincent Street, G2 5SG

#free for all members to attend, registration required

The Annual General meeting is the yearly business meeting for the Institute, as per the Laws of the Institute (please see the formal notice). Each Region/Centre has representation at the AGM, which is its Councillor and the Voting Delegates, elected to represent you by your Region/Centre Committee.

The AGM will receive and debate the Resolution(s) put forward. Regions/Centres who wish to table a Resolution for consideration at the AGM will need to advise the Chief Executive in line with the timetable issued in the first quarter of each year. For this year, the deadline is 30 August 2019. Individual members have the right to put submit a written proposal for consideration at the AGM as a Resolution. Such members may approach either their Regional/Centre Committee or the Chief Executive direct. Such proposals must be received as a Resolution by 30 August 2019.

In September, following the Council meeting, timings for the AGM will be confirmed along with any Resolution(s). Please register your attendance by completing the online booking form via the website or contacting the Chief Executive's Office.

N.B.: Consideration is currently being given to how the afternoon may be used; should the business of the AGM allow for another session.

19:00

Presidents' Ball

Saturday 9 November

19:00-01:00

Grand Ballroom, Grand Central Hotel, G1 3SF

Dress: Black tie/long dresses and medals

Tickets: £100 per person

Table of 10: £950

10% discount for 5+ persons

The Presidents' Ball, hosted by the President and Immediate Past President, is the Institute's annual networking and social event to celebrate the continued successes of Architectural Technology and CIAT. Tickets include a pre-dinner drinks reception, three course dinner and a night of entertainment with a live band and dancing. The Gold Award recipients will be announced and presented. This is the last year for the Presidents' Ball.





Notice of the Annual General Meeting 2019

Notice is given that the Annual General Meeting of the Chartered Institute of Architectural Technologists will take place at 200 SVS, 200 St Vincent Street, Glasgow, G2 5SG on Saturday 9 November 2019 for the following purposes:

- To consider the Annual Review.
- To consider the accounts and balance sheet as at 30 April 2019.
- To re-appoint the Auditors and authorise Council to fix their remuneration.
- To receive and debate the Resolution(s).
- To announce the results of the election of members to the Council and Regional and Centre Committees.

Francesca Berriman MBE HonDTech
Chief Executive
June 2019

CIAT, 397 City Road, London, EC1V 1NH, UK

18:00

Friday event hosted by Scotland West Region

Friday 8 November

18:00 (subject to change)

Glasgow City Chambers, 80 George Square,
Glasgow, G2 1DU

Tickets: £30 per person. Open to all members
and their guests (subject to space).

10:00

A Taste of Glasgow: City walking tour

Saturday 9 November

10:00 – 13:00

Dress: Casual with appropriate footwear

Tickets: £10 per person

Whilst the AGM takes place, there will be a city walking tour open to all guests and partners to attend. The tour takes in the cultural and architectural sights with a coffee break.



Sponsorship

For sponsorship opportunities, please contact Adam Endacott, Communications Director (adam@ciat.org.uk) or visit ciat.org.uk/sponsorship.html

Further information

For further information on the events please contact Rochae Cook-Anderson, Events & Administrative Assistant (rochae@ciat.org.uk)

Updates and
information:
ciat.org.uk

Honorary Officer elections 2019 – Nominees standing for election

Following the call for nominations in the last issue of *AT Journal*, each candidate now takes the opportunity to explain why they should be elected.



Gordon J Souter MCIAT Honorary Secretary

I am delighted and honoured to have been nominated again for the position of Honorary Secretary and if elected, I will continue to serve the Institute with pride, passion and dedication.

I have been working in the built environment sector for over 30 years. During this time I have worked mainly in house building. Presently, I am Design Manager for Persimmon Homes North Scotland.

I have been a member of CIAT since 1993, involved Regionally for nearly 20 years and nationally for the last 14. During this time, I have gained a sound knowledge of the workings of the Institute, and it is this acquired knowledge I would utilise.

I am passionate about the Institute and believe I have shown this by my commitment over the years. As our Institute is run by the members for the members, it is important that members give their time to enhance the recognition of CIAT. I always encourage members to get involved, especially the youth, as they will shape the future of CIAT.

Whilst the position of Honorary Secretary is not as high profile as that of the other Officers, it is nonetheless an important position. At this time the Institute is functioning well and as Honorary Secretary, I would maintain this by dealing with potential issues swiftly and efficiently as well as providing support to my fellow Officers and the staff at Central Office. I am not afraid to make the tough decisions when/if required.

The position of Honorary Secretary requires a steady and level headed approach, with good analytical and mediation skills to ensure the smooth operation of the Institute and the correct application of its policies and procedures. I possess the necessary attributes to ensure this process is maintained.

An important part of any organisation is to ensure that the regulations and policies are current, fit for purpose and where possible future proof. I have, and would continue to, work closely with the staff to ensure currency of the Laws of the Institute, if elected. This will be especially important over the next two years with a full review of the Conduct procedures being undertaken.

I will also work closely with the Chief Executive, staff and Officers to drive forward the Corporate, Strategic and Business Plans to the benefit of the Institute. I do not have an agenda for radical changes, however if I see an opportunity to change systems for the benefit of the Institute then I will work with the appropriate Officers and staff to implement the changes as smoothly as possible.

If elected I would serve with diligence and dedication for the betterment of the discipline of Architectural Technology and in particular the Chartered Institute of Architectural Technologists. I would consider it an honour and a privilege to be given the opportunity to serve the members of CIAT for a further two years.



Matthew Brooke-Peat MCIAT Vice-President Education

I entered the industry in 1994 and since that time I have worked in construction, architectural practice, technical consultancy and academia. I hold a range of vocational and academic qualifications that were all obtained via part-time study. My education has taken a journey from a construction craft, through construction management, to Architectural Technology and building physics where I am in the final stage of completing a PhD. As a consequence of my experiences, spanning 25 years, I place great importance on education.

I am currently Programme Director (Grade 9) for Architectural Technology at Leeds Beckett University with responsibility for the development and delivery of several undergraduate and postgraduate programmes. Research, consultancy and enterprise form active parts of this role. In addition, I have been a member of the CIAT Education Board since 2013 and I am also currently the Regional Treasurer for Yorkshire. I have previously held the Regional Education Officer post twice, participated in many MCIAT and CEnv Professional Interview Panels, and contributed to several other groups for the Institute.

An opportunity exists to create a sustained growth of the Architectural Technology discipline to meet the ever-increasing demands that society places on the built environment. However, the recruitment of staff with the requisite knowledge and skills presents a significant challenge for practices. To tackle this issue, ways need to be found to attract people to study and pursue a career in Architectural Technology. Academic establishments promote their programmes, but the Institute also has a role to play in generating interest in the discipline.

There is a drive for alternative routes into the professions and higher apprenticeships are seen by the Government as a sustainable method. There is an Architectural Technology based degree apprenticeship standard in development that has not been approved for delivery to date by the Institute for Apprenticeships and Technical Education. The current version is primarily aimed at design manager roles in construction organisations. However, a large portion of levy paying companies that require Architectural Technologists are

architectural and multi-disciplinary design practices, and these need to be served. It is important to engage practitioners in the promotion of the discipline to open up and develop networks.

Furthermore, there needs to be greater integration of practice in the delivery of Architectural Technology education to strengthen this symbiotic relationship and ensure the currency of graduates. After completing their initial education, practitioners need to keep up to date with legal, technical and management issues. The Institute could extend the support of its members by further developing and exploiting existing infrastructure. In particular, the AT Academy could enable widespread dissemination of knowledge.

It is my belief that the Vice-President Education is key in addressing the above matters in line with the Institute's aims by leading the development and implementation of education focused initiatives that contribute to the realisation of the Strategic and Corporate Plans for 2018-23. To this end, I seek your support for my candidacy.



Paul Laycock MCIAT Vice-President Education

Once again I am honoured to accept the nomination for Vice-President-Education. If re-elected, I will continue my campaign to maintain and advance standards and ideals of excellence in both education and membership, ensuring no member is left behind in achieving their best.

I have greatly enjoyed my time as Vice-President Education so far and have seen some real evolution in education, research and membership in that time. The effort put in by myself, Central Office staff and members has been considerable and I would like to thank everyone for their support, ideas and encouragement over the years; and look forward to continuing this to further strengthen our position as the lead qualifying body in Architectural Technology.

Over the last few years I have actively worked with

the aspirATion Groups in a number of Regions. These are taking off and going from strength to strength. Some work is still needed in this area and this will be one of my focuses going forward.

Linked to this, I have worked in a number of Regions in strengthening their link with our Accredited programmes, an essential link if we are to ensure graduates are ready to move in to successful future careers. This is an area I am keen to continue and develop, and breakdown the barrier between industry and education.

The Membership Grade Review process has been one of the highlights of the last year. I look forward, with cautious optimism, to the realisation of this review and then the implementation of a clearer framework where the aspirations of members are supported and realised.

I continue my involvement in Accreditation, assessment and Professional Interviews, promoting the highest standard in all to bring the brightest minds and able Technologists forward ensuring the discipline and the institute develop and flourish at Regional, national and international levels.



Ann Vanner MCIAT Vice-President Education

I am delighted and honoured to have been nominated for the position of Vice-President Education. Those that have met me, know how passionate I am about the Institute, the profession and most importantly about education.

For the last ten years, I have worked in academia and I am currently the final year tutor for the Architectural Technology programme at University of Central Lancashire. I am acutely aware of the pressures faced by educational establishments, in an ever-changing landscape of funding, league tables and student expectations. Prior to that, I worked for several practices both in the UK and abroad.

Having been on the North West Regional Committee for the last three years, I now hold the position of Regional Education Officer, allowing me the opportunity to represent the Institute at college and school careers evenings, outreach events and various workshops.

I continue to be involved with the MCIAT Professional Assessment, both as a Panel Member and as an Interviewer, and have recently been asked to become a mentor for the process. My vision if I was to become Vice-President Education would be as follows:

Continuity

Build on what we have already established. If elected, I would continue to promote the work that is currently being undertaken, the Accreditation and growth of our undergraduate and post graduate degree programmes and the magnificent work of the aspirATion Groups. In addition, the work on our membership routes, to ensure a widening and deepening participation, but also in its diversity, skills set and expertise, we can claim as being part of the Institute and the profession. I believe it is essential we continue this good work.

Collaboration

There is an increasing acknowledgement of the role played by the Chartered Architectural Technologist in the project and design management process, as the industry diversifies with growing specialisms. The Chartered Architectural Technologist is best placed to respond to these changes and innovations. The education that they receive through the various Accredited programmes across the country ensures that they are agile, adaptable and highly employable.

Rising to the new challenge of working towards the Architectural Technology degree apprenticeship, which is a critical development in continuing the growth and ensuring the sustainability of the Institute. I believe we need to further develop, and foster closer relationships, with other professional bodies and employers and listen to what their needs are. I would also encourage greater engagement with the next generation throughout their educational journey. This would be from primary school through to colleges, with the students, the parents, the teachers and the policy makers, at local, regional, national and international level.

We should also develop the idea of a 'ladder of opportunity'. Access to the profession, should not be limited to those leaving school or college, but also those who are attracted to the profession later in life.

Communication

We must continue to improve our visibility and communication to all. The built environment surrounds every one of us, and the role the Chartered Architectural Technologist has is key to ensuring these environments are safe, accessible to all, fit for purpose, recyclable and energy efficient and with the ability to deal with user's wellbeing or have a positive impact on climate change.

I shall continue, as always, to raise the profile of what we have already achieved by clearly articulating the objectives held within the Strategic and Corporate Plans. I consider it a privilege to be nominated for the position of Vice-President Education and I look forward to receiving your support.



Rob Thomas MCIAT Vice-President Practice

Firstly, I am very honoured to be considered for election to the post of Vice-President Practice. I have been a member for over 15 years. During that time, the Institute has evolved in a positive way, and I would wish to take the role of Vice-President Practice forward in line with the Strategic and Corporate Plans.

My career history and experience consist of working in the construction industry since 1987, including working at architectural practices, building surveying practices, national house builders, and have now been running my own architectural practice for three years. I believe I have a wealth of experience in all matters relating to different aspects of Architectural Technology, as well as construction matters. I have attended and chaired many professional meetings in which I have developed skills of constructing an intelligent and informed viewpoint as well as negotiating and debating to ensure sensible results, both with the general public and external contractors.

My involvement in CIAT started back in 2007, when I was approached by Central Office to assist in the reformation of the South East Region. I, along with other new and existing Regional members, came together to set up a new Regional Committee with me as Regional Councillor. My involvement with CIAT has included roles at Regional level, as well as past attendance at Council and Finance Committee. In addition, I am currently an attending member of the Special Issues Taskforce. I previously held the Regional Chairman's role at the time of the Region's successful AGM in Southampton. I continue to actively support the Region and the Institute to develop our discipline.

Before accepting the nomination for Vice-President Practice, I have liaised with a number of people active within CIAT, including the former Vice-President Practice Gary Mees PPCIAT MCIAT. It is a role that is not to be taken lightly, but with the support of family, staff at Central Office and my Region, I feel that I can build upon the great work Eddie Weir, and Gary before him, have carried out during their tenures.

It is a time when our discipline can excel, and in the role of Vice-President Practice, I intend to be proactive in pushing forward our members so that they are able

to work in sectors that are not currently recognising the skill and expertise that Chartered Architectural Technologists possess. This would include pushing forward plans for the CIAT initiative of 'Open and Fair Competition in Public Procurement Documents' ensuring we are at the table when submitting bids for public sector work.

I would be looking at developing the Vice-President Practice role in line with the core values set out in the Strategic and Corporate Plans 2018-23 but also to go back to basics. By this, I mean to review the role of the Architectural Technologist within practice, as well as academic and members employed by product manufacturers, and ensure that our skills are recognised and promoted effectively. I believe too much emphasis is placed on job titles, rather than explaining and promoting our value in all areas of design and technical expertise at all grade levels of CIAT, i.e. Technician/Technologist. ■

What happens next?

The full manifestos for the nominated candidates have been issued to members by email and can be found on our website. A campaign trail is now in progress with the election taking place at Council on 7 September 2019.

Key dates summary

Campaigning by candidates
20 May-6 September 2019 inclusive
Election ealerts and updates on the website
20 May-6 September 2019 inclusive
Election at Council
7 September 2019
Ealert announcing the election results
9 September 2019
Assumption of position
10 November 2019 close of 2019 AGM



Conference on Architectural Technology in Delhi, India

Words by Amina Khanum, Assistant International Director

According to GlobalData's 'Construction in India – Key Trends and Opportunities to 2023' India's construction industry is expected to grow at an average rate of 6.44% per year to US\$690.9 billion in 2023.

In the past three years, the Institute has been focusing on the development of Architectural Technology in India, meeting with architectural practitioners, academics and officials at government level. Several meetings have been held with the Council of Architecture (COA), the regulatory body for architects which oversees the standards of education and practice in this field. Through these meetings it was agreed that CIAT would hold a conference on Architectural Technology in India, to raise awareness of the discipline to educational establishments, students and practitioners.

The two-day conference on Architectural Technology took place in Delhi in April 2019 and was held at the headquarters of the All India Council for Technical Education (AICTE), which is the statutory body and national council for technical education.

The purpose of the event was to introduce the discipline of Architectural Technology as an academic and professional discipline and brought together Indian academic institutions, universities that offer CIAT Accredited degree programmes, students, practitioners and other professionals within the industry.

The conference was opened by Alex Naraiian PCIAT and Dr Jaffer AA Khan, an architect and great advocate for Architectural Technology in India, who runs an architectural studio at Auckland University of Technology in New Zealand, as well as working as a senior faculty member at the Dar Al Hekma University in Jeddah, Saudi Arabia and is an adjunct Professor at Vellore Institute of Technology.

The first day was primarily aimed at practitioners and students, with the President introducing the Institute and discipline, and Dr Khan explained the need for Architectural Technology in the industry.

The welcome address was given by Vijay Garg, President of Council of Architecture and Dr M P Poonia, Vice Chairman of the All India Council for Technical Education, and both honoured guests were presented with a gift by CIAT. There was also representation at Government level from Suresh Jain, National Organising Secretary Senior Pracharak, who was also honoured on stage and spoke of his support for CIAT and needed to promote the discipline.

Presentations were given throughout the day by Joe Healey MCIAT, formally of Gensler Dubai; Deependra Prasad, Deependra Prasad and Planners, an architectural design and planning practice in Delhi; Justin Kelly MCIAT and architect from BPTW, a design led architectural studio based in Greenwich, who talked about the differences between a Chartered Architectural Technologist and an architect, and Sushant Verma from rat[LAB], a research based organisation and network of designers and researchers specialising in computational design and similar technology related domains in Delhi.

Other presenters included William Holland MCIAT and Jamie Yorkston MCIAT who spoke during the two days about their experiences as both graduates from a CIAT Accredited programme, and now as practitioners. They also introduced aspirATion Group, William being the current aspirATion Chair for Northern Ireland and Jamie for Scotland East. They explained the purpose of the aspirATion initiative which is aimed at future Architectural Technology professionals to encourage engagement with the Institute. Both William and Jamie spoke about the activities carried out in their Regions which are a mixture of both educational and social events. The second day was mainly aimed at academics and presentations and included overviews of Accredited Architectural Technology programmes from five educational establishments.

Presentations were given by Ashok Iyer, Chairperson and Professor from the School of Design and Architecture at Manipal Academy of Higher Education, Dr Boris Ceranic PhD MCIAT, Senior Academic and Researcher at University of Derby, Gordon Chisholm MCIAT, Lecturer from Waterford Institute of Technology, Paul Newman PPSAAT PPBIAT MCIAT, Lecturer at Nottingham Trent University and Roger Taylor MCIAT, International Marketing Coordinator

and Lecturer in Design and Construction for the Department of Architectural Technology and Construction Management at VIA University College, Denmark.

The second day saw lively interaction between the presenters and the attendees, who gave their views about Architectural Technology and whether they considered it to be relevant, important and if it could be implemented in their institutions. Presentations concluded with a summary of information on CIAT's Accreditation process and membership. The Institute is looking at strengthening relationships with the AICTE and COA and will continue with its work in promoting the discipline in India. ■

We would like to thank the support of the members in the UAE in making the visit vibrant, positive and identifying real opportunities for the discipline, profession and Institute



The President with Members and representatives in India

EVENT PARTNER



QUALITY IN CONSTRUCTION SUMMIT

Sponsored by



3 JULY 2019 | EXCEL LONDON

**CIAT
MEMBER OFFER**
£149 + VAT
(Full Price £249)
QUOTE
CIAT149

TOPICS INCLUDE

- DIGITALISING QUALITY
- FIRE SAFETY AND THE QUALITY PROCESS
- MODERN METHODS OF CONSTRUCTION
- THE LATEST PROCESSES AND GUIDELINES

SPEAKERS ANNOUNCED



DAME JUDITH HACKITT
DBE FRENG
OF THE HACKITT REPORT



MARK FARMER
FOUNDING DIRECTOR AND
CEO AT CAST



GEOFF WILKINSON
MANAGING DIRECTOR
WILKINSON CONSTRUCTION
CONSULTANTS LTD

BOOK NOW
AT CONSTRUCTIONSUMMITS.COM

**SAVE
£100**

ASSOCIATIONS



MEDIA PARTNERS



CERTIFIED BY



ORGANISED BY



Membership Grade Review

Words by James Banks, Membership Director

“The Review is essential for the future development of the Institute, discipline, profession and members” is how Professor Sam Allwinkle PPBIAT MCIAT describes the work that has been going on behind the scenes for the Membership Grade Review.

“It is an exciting project for the whole membership which aligns with our Strategic and Corporate Plans”, continues Sam, co-Chair of the Review Group, “there are opportunities for all Architectural Technology professionals to achieve and enhance themselves further in the discipline and in the Institute’s membership structure.”

It is an exciting project for the whole membership which aligns with our Strategic and Corporate Plans



So what is the Membership Grade Review? It has been a year-long project reviewing all grades of membership. It is a direct result of the Institute’s growth and continued success, and consequently to prepare for future challenges and development, ongoing growth and expansion of the discipline and profession within the UK and globally.

Chief Executive, Francesca Berriman MBE explains further, “The Executive Board and Council approved the Terms of Reference for a holistic review of the membership grades,

structure and qualifying mechanisms. This will lead to a strengthened membership for the Institute and increase our influence and stature further.”

Following a presentation at the 2018 AGM, Professor Allwinkle and Paul Laycock MCIAT, Vice-President Education, led the Grade Review which has involved hours of research, consultation with a cross section of the membership and several working groups including Region, Centre and aspirATion Groups. This work has now been approved by the Executive Board and Council and will be presented as Resolutions at the AGM this year in Glasgow.

The proposal

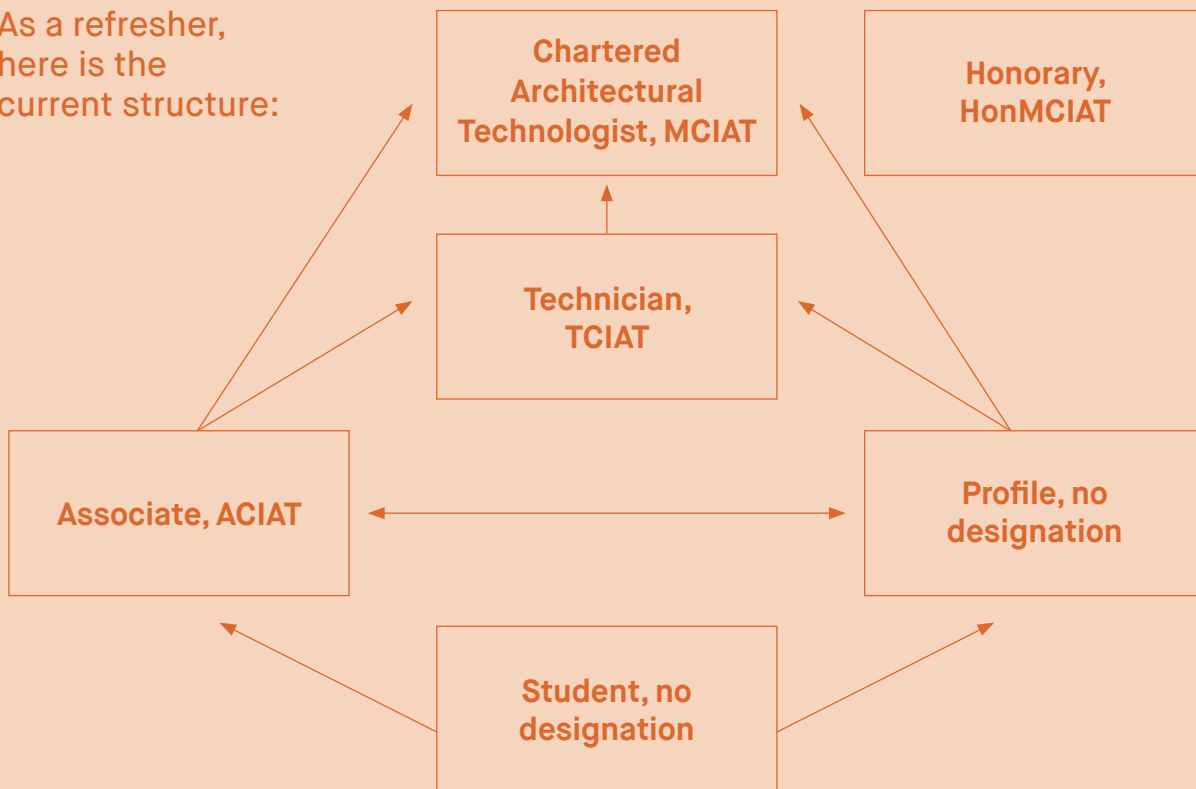
“Future proofing the Institute in its sixth decade is vital” says Paul Laycock, “the enthusiasm and excitement arising out of what we have discussed, analysed and developed is infectious and we think that the membership will be excited by it also.”

“There are a lot of arrows!” muses Paul, “so we broke down each grade, their purpose and method of attainment and thought outside the box. I hope my fellow members will agree that what we are proposing has streamlined and expanded the opportunities for everybody in the discipline and for those who want to be a part of CIAT.”

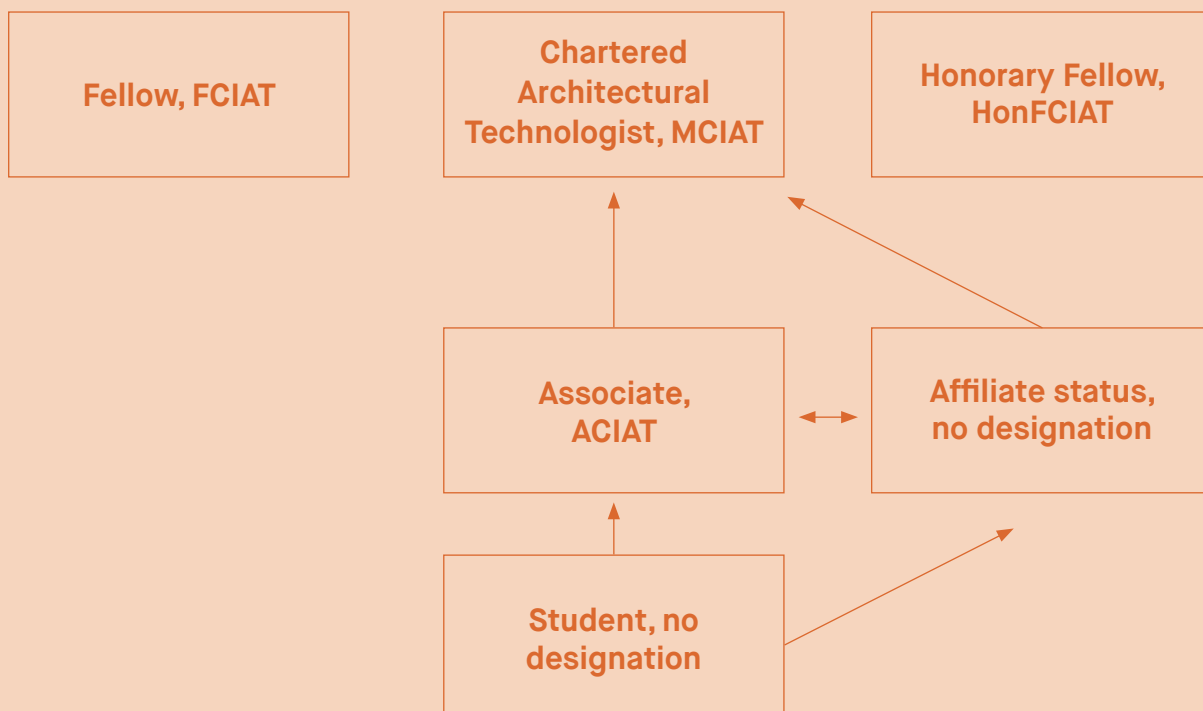
Professor Allwinkle explains further, “We feel the time is right for the introduction of a Fellow grade. This allows further recognition for Chartered Members for their excellence and/or for their significant contribution to the advancement of the discipline, profession or practice of Architectural Technology. This complements the Chartered Architectural Technologist qualification and is an aspirational achievement for Members to demonstrate their skills, roles and functions further.” This is not to be confused with the Gold Award, which recognises outstanding service made by a Chartered Member to the Institute.

The proposal is to remove the Technician grade, TCIAT, and the profile candidate. “This is a progressive step for the Institute”, says Paul, “the Affiliate will be the natural home for those who are currently profile candidates and to engage those in the sector who want to support and/or have an interest in CIAT. This gives credibility and those profile candidates will undertake the same qualifying process as before to attain Chartered Membership and beyond.” Paul continues, “the decision to remove the Technician grade is a positive one also.

As a refresher,
here is the
current structure:



The proposed structure:



These proposals are an exciting development and enhances the Institute's profile, stature and influence



We recognise the Architectural Technician job role and terminology, however, the focus for the Institute must be for its members to achieve Chartered Architectural Technologist status with the recognition, value and impact that it has for all members, the Institute and all stakeholders involved in the built environment. Interestingly, the Review identified that the Associate grade has a greater profile with many Architectural Technicians making this their preferred grade of membership." Paul would like to reassure those currently qualified as or working towards Technician membership.

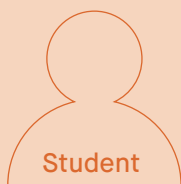
"There will be a phase out timetable and support which should enable you to progress to Chartered Membership in a streamlined manner." "Part of the Review includes the proposal to enhance and update the Honorary grade to Honorary Fellow" confirms Professor Allwinkle. "This will be for distinguished individuals with either pre-eminence in their field, a significant contribution to the profession and/or an ongoing relationship with the profession."

"I very much hope you will agree that these proposals are an exciting development and enhances the Institute's profile, stature and influence" enthuses Francesca, "they will be presented at the Region, Centre and aspirATion Summit in June and then formally submitted to your Executive Board and Council for approval. We invite your support for these changes when they are presented as the Resolutions for the AGM this year — please engage with us if you have any comments, views, opinions or observations."

You are encouraged to get in touch by either:

1. contacting your Regional/Centre Committee or aspirATion Group (details available upon request from info@ciat.org.uk)
2. contacting James Banks, Membership Director – james@ciat.org.uk ■

Summary of the proposed changes



Student

no change



Associate

no change



Chartered

no change



Affiliate

Architectural
Technology
professional

built
environment
sector



Technician

to cease use in
favour of Associate
and affiliate



Profile

to cease use in
favour of affiliate



Fellow

a new grade



Honorary
HonMCIAT

change to
Honorary Fellow



Architectural Technology Academy (ATA)

Words by Tara Page, Education Director

The work of CIAT in terms of education, CPD and training has grown and evolved and continues to do so, and to recognise, streamline and consolidate this activity, the Institute launched the Architectural Technology Academy (ATA), on 1 May as a subsidiary company of CIAT.

The ATA is an exciting initiative and operates as the home for all the Institute's educational ventures. It aims to not only support the development and promotion of Architectural Technology as an academic discipline, but acts as a mechanism to help and support the membership to develop professionally, enhancing their knowledge and competences, which in turn will help boost the skills of industry.

The ATA's portfolio includes, but is not limited to:

- Educational standards development for Accreditation, membership and bespoke or specialist qualifications;
- Accreditation of Honours degree level programmes;
- Accreditation of Masters degree level programmes;
- Approval of sub-Honours degree level programmes;
- Awarding Centre of Excellence status;
- Accredited Conservationist Register;
- Chartered Environmentalist qualification;
- AT CPD Register;
- Developing and promoting research in Architectural Technology.

Future projects will be added to the ATA portfolio as they develop. This development will ensure the delivery of a consistent, clear and meaningful brand, assist in raising the profile and awareness of CIAT's educational work further, as well as the discipline and the Institute. It also validates the Institute as a thought leader in the field of education, training and development relating to Architectural Technology. For any queries or you would like further details on any of the above then please email education@ciat.org.uk ■



ipax DUBAI,
AFRICA
& ARABIA
12 June 2019
London

ipax USA &
AMERICAS
3 October 2019
Toronto

ipax UK &
EUROPE
24 October 2019
London

ipax GLOBAL
2 December 2019
London



Meet award-winning designers, developers, interiors experts, and real estate professionals

The IPAX events combine the presentations of the International Property Awards with a full business event designed to connect property companies from different disciplines within the industry, generating sales and association opportunities.

Attended by top-level CEOs, Owners and Managing Directors, these are the perfect events for anyone involved with property, architecture, interior design or the real estate industry.

- ▶ Seminars
- ▶ Presentations
- ▶ Exhibition
- ▶ Networking



**RESERVE
SPACE
NOW!**

Exhibition places are now available. Call +44 (0)1245 250981
or email events@ipropertymedia.com

REGISTER!

Register for more information at www.ipaxglobal.com



The future workforce of the built environment

Words by Nooshin Akrami MCIAT

What can we do to ensure we invest efficiently and contribute to the growth of our industry, the growth of the professional body and maintain recruitment and retention for CIAT Accredited programmes?

It is becoming more and more apparent that we need to replace an aging workforce and recognise that ours is an industry ever evolving and growing and becoming more automated and digitised. In September 2016, the University of Bolton stopped recruiting in the majority of its built environment programmes, including Architectural Technology. However, for almost a year prior to the programmes' closure, staff worked tirelessly to encourage the academic team to commit to outreach activities with schools.

I do not believe that our quest to engage the younger generation with built environment professions is unique. If you are familiar with the industry, you will appreciate that this is a situation that's needs addressing urgently, and time is not a luxury we possess!

There is a direct link between successful recruitment and retention in higher education and the supply of membership for the professional body. Those with an Accredited undergraduate degree are encouraged to join CIAT upon graduation as an Associate member and subsequently encouraged to progress to Chartered Membership. Clearly, any effort to support educational establishments offering Accredited programmes in regard to recruitment and retention should have a positive impact on membership growth eventually.

Recently, I had the opportunity to discuss these issues with Alison Watson MBE, land surveyor, founder

and designer of the programme Design Engineer Construct (DEC) and Chief Executive of Class of Your Own (COYO) to capture her points of view and the opportunities that we should not miss.

Class of Your Own Limited has been delivering one day workshops and other built environment student engagement programmes to schools/colleges since 2009 and, from September 2012, the full and accredited DEC learning programme.

Design Engineer Construct! (DEC) is an accredited learning programme for secondary-school age students and has been expertly developed to create and inspire the next generation of built environment professionals. Through a project-based approach, DEC applies pure academic subjects to the latest construction industry practices.

Over to Alison, Nooshin is right to feel anxious and frustrated about the future of the built environment. The media can paint a great picture of success, but I am not entirely sure how far we have come! I do not want to be doom and gloom – there are some great initiatives out there, and so many people are trying hard to excite the next generation about our industry.

However, we tend to work in silos. I think the greatest issue with DEC is that people see it as another one of those 'initiatives', and it gets lost in translation. DEC is not a 'one-hit wonder' and it is not a quick route



There are some great initiatives out there, and so many people are trying hard to excite the next generation



to ticking the corporate social responsibility boxes to win a bid. DEC is a curriculum subject that develops great teachers and spans a young person's secondary school life from 11-18; one that we expect to be embedded within the school curriculum, and one that enables all great 'initiatives' to hang on – a great washing line for the entire industry on which to peg their opportunities, from careers advice and CV writing workshops to apprenticeship recruitment and university sponsorship.

The trouble is, there is very

little collaboration, indeed very little appetite, to work together. Everyone I talk to, from universities to professional bodies, industry giants to SMEs, know there is a great problem to solve. A problem shared is a problem halved, you cannot eat the elephant whole, two heads are better than one... it does not matter which cliché you choose, it is a fact that working together would bring greater rewards. Do not throw money at the problem – a flashier website, better leaflets or a cooler VR app do not work if you do not have an audience that opens the door and lets you in. Your great problem supporting DEC is getting out once you are in! Hence, long-term relationships are developed, and you change the perception of our industry by working closely with the very people you have been trying to recruit for the past decade or more.

Let us take the skyline of Manchester as a beacon of success. There has never been more exciting, living breathing advertisement for the industry, where even superstar footballers are in on the act. Yet, do parents look at the cranes and the traffic cones as an opportunity or a threat?

In fairness, even the media struggles with our industry. A recent article from a leading Russell Group university and Tier One contractor promoting structural and civil engineering opportunities for young people headlined with a photograph of a guy on a roof – with no PPE, no safety harness and no scaffolding. My blood ran cold... this is not the first time I have had to challenge the media. There's an education programme needed there too!

I wrote an article a few years ago entitled 'BIM Leaders of the Future' for the 'Construction Manager's BIM Handbook' (John Eynon, ISBN 9781118896471). As Class of Your Own reaches its tenth birthday, I wonder how much has changed since I wrote it?:

- Is industry doing all it can to make a profound difference on our ever-increasing skills gap?
- Is the government supporting industry's digital transformation in education?
- Does current policy make it any easier for young people to access the careers available to them in our great sector?

Whether you are a student, a teacher, an academic, a government official or you work in the built environment, any or all of this will resonate. These are questions that I've asked myself every year, for the past ten years. Many of the events I attend and the articles I read have become a talking shop. A meeting for a meeting's sake. Have we really moved on when issues we discussed and debated ten years ago are pretty much the same?

It is now 2019. Politicians have moved on to different roles, we've had the BREXIT vote, the apprenticeship levy and education policy has changed yet again, more vocational qualifications have been devalued in schools and now we read the biggest challenge is student mental health and teacher recruitment and retention. Has industry plugged its skills gap? Are universities building bigger campuses for Architectural Technology – or any other built environment faculty, for that matter?

On 5 May 2019, Class of Your Own celebrated the work of our hugely resilient teachers and students who, despite some unbelievable challenges in the past few years, have pushed their way to the front and screamed "look what we can do!" To those of you who noticed and got involved, a heartfelt "thank you".

I leave you with a text message, received last month, from a wonderful young woman, a DEC student, a trainee Highways Engineer, an award-winning apprentice, an ICE QUEST scholar and Jean Venables Medal finalist, an example of what can be achieved with the support of a great industry, a great school, a great teacher and great parents. Undoubtedly, a BIM leader of the future.

'Just something I wanted to tell you for the new year – I'm two years in and my salary is so high now I've bought my first house, all by myself and only my name on all the paper work – nothing joint with parents, and that's all thanks to you and Mr McDonagh setting me off. You really did set me up for life – thank you.' There are some inspirational quotes that go down in history as all-time greats. This is mine. If you would like to discuss this further or would like to contact the author, please email Nooshin directly, n.akrami@bolton.ac.uk ■

Alex's Insights

Why we should not be 'Jacks' of All Trades'



Words by: Alex Narayan PCIAT

Our distinct and recognised profession is critically important to the success of the built environment, in creating communities and ensuring we leave a sustainable legacy for future generations.

So, when I hear some in our discipline simply say they are able to perform the same role as an architect, as well as other professions it frustrates me. I will always take the time to gently correct the person/s saying this if I hear it being said.

I'll tell you why it so frustrates me. Ours is a STEM discipline (Science, Technology, Engineering and Maths), with a different focus with its own specialisms. Whereas architecture is a social science. There is, of course, overlap between the disciplines and yes, some of our membership hold both professional titles of Chartered Architectural Technologist and architect, but they are

distinctly different and focus on differing, but complementary, aspects.

For our profession to continue its growth, within the UK and internationally in terms of our presence and relevance, it is vital that we understand and grasp this. Our voices need to be united and resolute over this and we must stand 'shoulder-to-shoulder' when it comes to our identity. We should not be comparing ourselves to other professions or wishing to call ourselves anything other than what we have all worked hard to achieve and for which I am extremely proud to be called, a Chartered Architectural Technologist! Comparing ourselves to other disciplines, rather than celebrating the various complementary and differing skill sets allied professions bring to the table, places us at risk of diluting

our very desirable and needed discipline, blurring who we are and what we have to offer for the betterment of society, our membership and a more holistic built environment.

I look at business and collaboration as any businessperson would. First and foremost, pipeline, cashflow, turnover and profitability are paramount, but of equal importance, is a clear understanding of my strengths and core skills. By this, I would not build a team around me of clones of myself, but of complementary, contrasting and diverse skills to broaden overall ability and efficiency.

I am sure that you will have come across Belbin's team roles and how to shape high performing teams. I recommend you Google Belbin if you have not come across this. It is extremely useful in running not just a task driven business, but helps to understand complementary personalities that drive quality and efficiency within a business and when collaborating outside consultants etc. for a project.

In construction, we play a very dangerous game if we think we can do everything without respecting and including other disciplines. A little bit of knowledge about a myriad of subjects can be catastrophic in the sense that one can become a 'Jack of all trades and master of none'. I am sure we have all come across someone who professes to be an expert in architecture, Architectural Technology, interior design, landscape architecture etc. I certainly have and when you dig deeper with a few questions, rapidly realise how little expertise the person actually possesses and how dangerous, unprofessional, corrosive and damaging this can be.

Working with others on projects, whilst respecting what they bring to the table is a vital ingredient for high quality design and delivery of our built environment. It is a privilege and responsibility that we must bear with integrity.

I encourage you to be clear on our identity and respect other professions so that we live up to our reputation of being the 'go to' profession in the built environment sector, known for being collaborative, positive, professional and competent, so that we leave a positive legacy for future generations.

We are not to be known as 'Jacks' of all trades and masters of none'. We are Architectural Technology professionals and we must ensure that we continue to maintain and widen our reputation for being the foremost leaders and experts of Architectural Technology, which of course, we are. ■

The AT suite of literature is available from Central Office, please email info@ciat.org.uk

In construction, we play a very dangerous game if we think we can do everything without respecting and including other disciplines



Membership News

Chartered Members

We would like to congratulate the following members who successfully attended their Professional Interview and have attained Chartered Membership, MCIAT:

024844	Benjamin Checkley	Northern, 01
026672	Emma Cook	Northern, 01
029022	Matthew Ing	Yorkshire, 02
030698	Nicholas Johnson	Yorkshire, 02
027846	Joshua Lancaster	Yorkshire, 02
030200	Owen Nuttall	Yorkshire, 02
022246	Michael Todd	Yorkshire, 02
032403	Alexander Tsotos	Yorkshire, 02
023732	Ian Turrell	Yorkshire, 02
021097	Peter Skidmore	North West, 03
018458	Karl Jenkins	East Midlands, 04
032434	Haroon Hussain	West Midlands, 05
024628	Gareth Latham	West Midlands, 05
029235	Simon Brookes	Wessex, 06
026971	James Gray	Wessex, 06
027025	Antony O'Toole	East Anglia, 07
021344	Matthew Smith	East Anglia, 07
028052	Graham Theobald	East Anglia, 07
033712	Matthew Toone	East Anglia, 07
024067	Craig Woods	East Anglia, 07
022309	Christopher Baxter	Central, 08
030195	Anna Carton	Central, 08
025034	Thomas McEwen	Central, 08
024591	Duncan Smith	Central, 08
031120	Heba Elsharkawy	Greater London, 09
032262	David Gradden	South East, 10
029703	Nathan Green	South East, 10
032552	Ian Murray	South East, 10
025280	David Tindall	South East, 10
015641	Trevor Watts	South East, 10
016156	James Frampton	Western, 12
020132	James Moore	Western, 12
025336	Karen Norman	Western, 12
018256	Matthew Payne	Western, 12
031682	Henry Tizzard	Western, 12
033930	Stephen Home	Scotland West, 13
031449	Tony Zanieri	Scotland West, 13
032537	Nirvaan Chettri	Scotland East, 14
019335	Michael Gerrie	Scotland East, 14
032557	Neal McTavish	Scotland East, 14
029088	Nicholas Price	Wales, 16

In memoriam

We regret to announce the death of the following members:

001988	Graham Lake	Central, 08
030547	Romello McCook	Central, 08
008077	Stephen McGonagle	Scotland West, 13

Accredited-Conservationists

We would like to congratulate the following members who successfully attained their accreditation as a CIAT-Accredited Conservationist:

025365	Joshua Fenwick-Catt
009613	Barry Hill

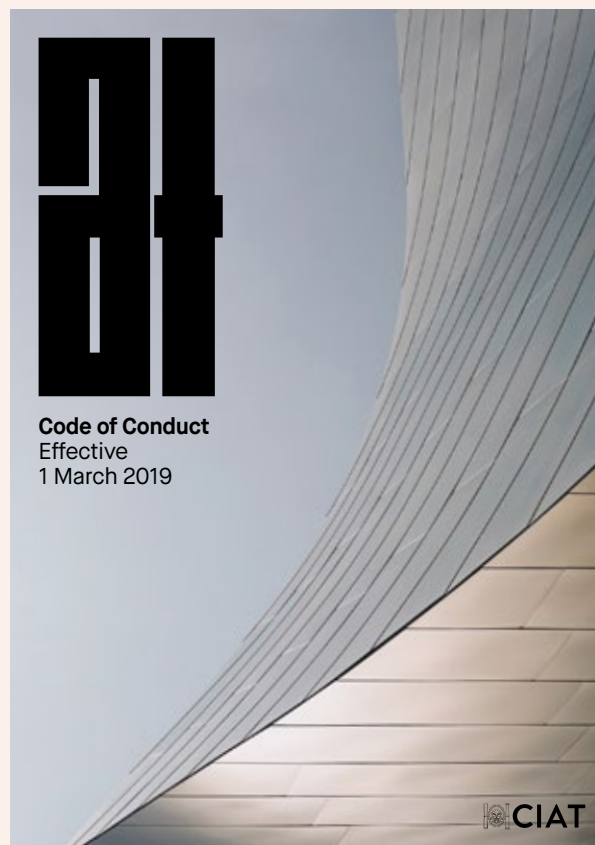
Code of Conduct

The Code of Conduct included as an insert in the last issue of the Journal, effective from 1 March 2019, included a printing error.

Clause 2a)ii) should read:

“ii) they possess other qualifications or perform other functions which allow the use of other descriptions.”

We apologise for this error.



Conduct

Member 017118 — Timothy Bailey

Mr Bailey was found in breach of Clause 1b), Clause 1f) and Clause 2c) from the Code of Conduct effective 1 May 2011:

Clause 1: Professional Conduct

The members shall at all times:

- b) act faithfully and honourably in their professional responsibilities;
- f) not knowingly misrepresent their professional qualification.

Clause 2: Descriptors

- c) Other classes of membership should describe themselves factually and in good faith or as the Board directs.

Disciplinary action:

In accordance with the Conduct & Disciplinary Procedures Item 18c), Schedule of Disciplinary Action, Mr Bailey has been excluded from the Institute for a period of five years in respect of the breach of Clause 1b) from the Code of Conduct effective 1 May 2011.

In accordance with the Conduct & Disciplinary Procedures Item 18c), Schedule of Disciplinary Action, Mr Bailey has been excluded from the Institute for a period of five years in respect of the breach of Clause 1f) from the Code of Conduct effective 1 May 2011.

In accordance with the Conduct & Disciplinary Procedures Item 18c), Schedule of Disciplinary Action, Mr Bailey has been excluded from the Institute for a period of one year in respect of the breach of Clause 2c) from the Code of Conduct effective 1 May 2011.

These periods of exclusion are to run concurrently, and therefore the total period of exclusion from the Institute is five years.

Member 025315 — Carl Collins

Two complaints were raised against Carl Collins. In the first complaint, Mr Collins was found in breach of Clause 1b), Clause 1e) and Clause 8c) from the Code of Conduct effective 1 May 2014.

Clause 1: Professional Conduct

The members shall at all times:

- b) act faithfully and honourably in their professional responsibilities;
- e) not knowingly misrepresent the views of the Institute.

Clause 8: Breaches of this Code

The members shall:

- c) when subject to an investigation by the Institute of an alleged breach of this Code use their best endeavours to assist in that investigation at their own cost.

Disciplinary action:

In accordance with the Conduct & Disciplinary Procedures Item 18c), Schedule of Disciplinary Action, the Conduct Committee has determined that Mr Collins was to be excluded from the Institute for a period of three years in respect of the breach of Clause 1b) from the Code of Conduct effective 1 May 2014.

In accordance with the Conduct & Disciplinary Procedures Item 18d), Schedule of Disciplinary Action, the Conduct Committee has determined that Mr Collins was to be expelled from the Institute in respect of the breach of Clause 1e) from the Code of Conduct effective 1 May 2014.

In accordance with the Conduct & Disciplinary Procedures Item 18c), Schedule of Disciplinary Action, the Conduct Committee has determined that Mr Collins was to be excluded from the Institute for a period of three years in respect of the breach of Clause 8c) from the Code of Conduct effective 1 May 2014.

In the second complaint, Mr Collins was found to be in breach of Clause 8c) from the Code of Conduct effective 1 May 2014

Clause 8: Breaches of this Code

The members shall:

- c) when subject to an investigation by the Institute of an alleged breach of this Code use their best endeavours to assist in that investigation at their own cost.

Disciplinary action:

In accordance with the Conduct & Disciplinary Procedures Item 18d), Schedule of Disciplinary Action, the Conduct Committee has determined that Mr Collins was to be expelled from the Institute in respect of the breach of Clause 8c) from the Code of Conduct effective 1 May 2014.

Member 022385 — Simon Grove

Mr Grove was found in breach of Clause 1b) from the Code of Conduct effective 1 May 2011:

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 & Disciplinary Procedures Item 18b), Schedule of Disciplinary Action, Mr Grove was reprimanded in respect of this breach and was required to give an undertaking in writing to refrain from further contraventions of the Code of Conduct, this he has duly done. ■

AT CPD Register Directory

For full details please visit ciat.org.uk/education/cpd/cpd-register.html

CDM

JRA CDM

This one-day, interactive, introductory course will equip delegates with the knowledge and understanding to undertake the new CDM2015 Principal Designer role on small and medium sized projects.

Cost/fee for attendance: £150.00

Contact: James Ritchie

E: james@jamesritchie.com

T: 07785915687

jracdm.com

BIM

BIM Strategy and Concepts (ACM015) and BIM Application (ACM016)

Learning will take place through the Robert Gordon University virtual campus with a mix of online lectures, tutorials and self guided study. Each topic within the module will have a number of self required and obligatory activities aimed at emphasising the learning.

Cost/fee for attendance: £600 per module

Contact: Professor Richard Laing

E: r.laing@rgu.ac.uk

T: 01224 263716

rgu.ac.uk/bim

How Virtual Reality saves time and resources (VR for Architecture)

To demonstrate how the sensation of actually being inside a building makes VR a powerful and money saving tool for communicating design intent.

Cost/fee for attendance: a nominal fee of £10 for the VR viewer

Contact: Scott Berry

E: scott.berry@applecoredesigns.co.uk

T: 0121 447 7788

applecoredesigns.co.uk

Building Regulations

Reducing the Performance Gap Through Fabric First

The presentation will improve understanding and confidence regarding insulation and how it is used; how its performance is measured; the role of the designer/specifier in ensuring that manufacturers provide accurate U-value calculations and

condensation risk analyses; and where insulation works with airtightness and thermal bridging details to contribute to a 'fabric first' approach.

U-value Calculations and Condensation Risk

This presentation will improve understanding and confidence regarding insulation and how it is used; how its performance is measured; the role of the designer/specifier in ensuring that manufacturers provide accurate U-value calculations and condensation risk analyses; and where insulation works with airtightness and thermal bridging details to contribute to a 'fabric first' approach.

Cost/fee for attendance: free to groups/practices

Contact: Lee Buckley

E: buckley.lee@recticel.com

T: 01782 590470

recticelinsulation.co.uk

Rainscreen Cladding: Compliance with BR135

Topic areas for this CPD course include Rainscreen Cladding, BR135 and Fire Performance of External Thermal Insulation for Walls of Multistorey Buildings.

Part L1A 2013 – Fabric Performance and Towards Passive, NZEB Targets

Topic areas for this CPD course include Building Regulations – Part L1A 2013 targets and corresponding specifications, Thermal Bridging and Airtightness Targets.

Section 6 2015 Scotland – Fabric Performance and Towards Passive

CPD topic areas include Building Regulations – Section 6 2015, Thermal Bridging and Towards NZEB/Zero Carbon House/Passive Standards.

Conventions for U-value Calculations – In accordance with BR443

Topic areas for this CPD course include Standards for U-values Calculations, Fabric Performance, Thermal Measurement and BR 443 Conventions.

Contact: Linda Smith

E: marketing@xtratherm.com

T: +353 46 9066079

xtratherm.com

Materials

Low carbon GRP daylight solutions for the metal building envelope

The seminar delivers an understanding of how rooflight choices in relation to key performance requirements can impact on the overall contribution rooflights can make to the metal building envelope.

Cost/fee for attendance: free

Contact : Nicola Hancock

E: nicola.hancock@ncsservices.co.uk

T : 07956 847533

hambleside-danelaw.co.uk

Other

Using Drone Technology within architecture

This half-day, interactive, introductory course will equip delegates with the knowledge and understanding of how the latest advances in drone technology are changing and enhancing traditional architectural working techniques.

Cost/fee for attendance: £49.00

Contact: Ian Tansey

E: ian@prodroneorx.co.uk

T: 07805 864642

prodroneorx.co.uk

Loft insulation isn't working – what can we do about it?

A one-hour online CPD module by LoftZone will explain the 'in-use factors' that limit the effectiveness of loft insulation; the research by the National Physical Laboratory and Carbon Trust that show how widespread these factors are; traditional insulation and building methods which are no longer appropriate; alternative techniques to maximise insulation performance; specific design considerations and a U-value calculator and safety requirements in lofts.

Cost/fee for attendance: free

Contact: Dave Raval

E: cpd@loftzone.com

T: 01483 600304

loftzone.co.uk

BREEAM Associate

This BRE Academy course has been designed to help understand, in depth, the essence of what BREEAM is about, what it involves, and how to successfully support the BREEAM process day to day.

Cost/fee for attendance: £195

breeam.com

Landscape

THE INDUSTRY TRADE SHOW

BATTERSEA PARK, LONDON

Tuesday 17 & Wednesday 18 September 2019

The trade event dedicated to bringing the landscape industry together by introducing its visitors to the latest products, services and techniques.

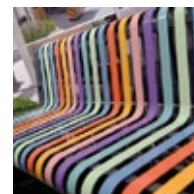
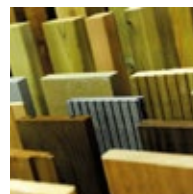
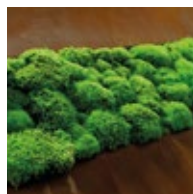
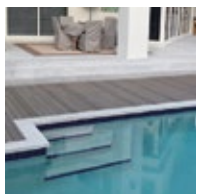
EXHIBITORS

LANDSCAPE exhibitors include manufacturers and suppliers of everything from vases, pots and flag stones to furniture and conservatories, water features and sundials. Our exhibitors provide architectural iron work, planters, sheds, turf, sculpture, soil, plants and paving as well as lighting, heating, trees and tools.

VISITORS

Our international visitors include Garden Designers, Landscape Designers & Contractors, Architectural Technology Professionals, Facilities Managers, Groundsmen & Parks Officers, Event Florists, Creative Directors, Garden Centres, Contract Gardeners, Hotels and Interior Designers.

Register for your free tickets at
www.landscapeshow.co.uk/register



+44 (0)20 7821 8221



landscapeshow.co.uk



@LandscapeEvent
#Landscape2019



landscape.show