Be Excited. This was the concluding statement from Jez Ralph, founding director of Timber Strategies, at INTBAU’s timber talk on 27th January. There is always room for skepticism, but on a dreary Monday in January, with the uncertainty of Brexit looming on the horizon, it was both refreshing and encouraging to receive a message that wasn’t laced with the panic-infused immediacy of the climate change agenda, supported by statistics about the construction industry’s contribution to global Co2 levels.

From the outset, it was clear that the varied panel was mirrored by the audience of architects, carpenters, and enthusiasts. Proponents from the conservation, forestry and commercial sectors were seated side by side. Some eyebrows were raised when one speaker highlighted with certainty the benefits of engineered timber sourced from monocultural plantations abroad. However, it was this contrast and at times, tension, which made the evening worthwhile.

First to speak was Charley Brentnall, an internationally recognised leader in timber construction and conservation, whose companies, Xylotek and Carpenter Oak are incredibly well renowned. Indeed, INTBAU was extremely lucky to have Charley’s rendition of the projects undertaken by the students at Hooke Park, the Architectural Association’s woodland campus in Dorset. Here, students experiment, engineer, ‘design and make’ impressive structures like Wood Chip Barn. By using an app on his iPhone, Charley showed how it was possible to 3D scan trees in situ, select only those with the correct angled forks, and carve joints for this otherworldly ark-like structure using a robotic arm. In doing so, he also implied that these technological advances needn’t represent a disconnect from traditional craft.

There is a definite need for more opportunities like this, that educate and retain an in-depth knowledge of timber at the heart of the curriculum for young architects and engineers, and facilitate more cross-disciplinary collaboration.

Following Charley was Richard Oxley, an experienced conservation architect, whose practice, Oxley Conservation, is based in the Chiltern Hills. Richard started by emphasising the versatility and durability of historic timber buildings. He spoke about timber’s innate ability to adapt to accommodate slight changes in humidity and temperature. He also used dendrochronology and archival records to illustrate that vital skills and attitudes to repair are at a danger of being lost in the 21st century. In the 1400s, individuals would travel for miles in the hope of selecting the appropriate timbers for their specific project, wasting very little material in the process, and relying upon a comprehensive knowledge of parts of the tree and its structural capacities. It was this same point about local knowledge and resources that Jez Ralph picked up upon later in the evening.

“A timber takeover?
Be excited: the future’s not so bleak.”

Richard also did well to reiterate the well-known fact that the greenest building is the one which already exists: a phrase coined by Carl Elefante and reiterated by INTBAU Trustee Robert Adam. Richard showed some ingenious examples of how repair and conservation could be done with timber derivatives such as Pavatherm insulation and wood fibre insulation in roofs and walls.

Also discussed was our apparent obsession with exposed timber in historic building facades. “Let us not greenwash but limewash” Richard argued; limewash being the traditional, authentic way of maintaining a timber framed building so that it can withstand the elements. Our tendency to strip back brick and expose timbers is informed by the mock Tudor revival style of the late 19th century, which has manifested itself in half-timbering, masonry veneer techniques that have played their
He highlighted the frightening impact of climate change in the UK, and used a table to emphasise the increasing incompatibility of species like sitka spruce, birch and beech in Dorset forests, which can no longer be planted. Jez’s vision of a sustainable future certainly brought the debate from the global to the local, as he emphasised the benefits of relying upon mixed plantations in the UK and a more localised form of processing at a regional level. This was delivered in spite of the fact that only 12% of the UK’s land is forested in comparison to 48% in Austria and 75% in Sweden.

It was therefore this question of demand and supply, rather than form or aesthetics, that framed the debate. This was also quite revealing about where the future of timber construction is heading. It is clear that the rhetoric of carbon sequestration alone is appealing, but has its flaws and is often too readily adopted. More discussion is required if we are to have any say in how we build and we’d better hurry: the last timber build probably took the same amount of time it took to put on this event.

However, we should also be excited. The timber buildings of the future do not have to make reference to previous structural forms. With more hands-on training, workshops and collaborative projects, it will be possible to educate a new cohort of practitioners. The next generation should be aligned with the needs of both our forests and our cities, and possess a more comprehensive understanding of this complex building material.