

# PASSIVHAUS STUDENT COMPETITION

The Trust launched a nationwide pilot Passivhaus student competition, kindly sponsored by Tarmac, in October 2014 at the UK Passivhaus Conference. The key objective of the competition is to give architecture & planning students a creative vehicle to learn about transforming an existing area in need of regeneration, and its buildings, into a low-energy sustainable place using the Passivhaus standard and principles.

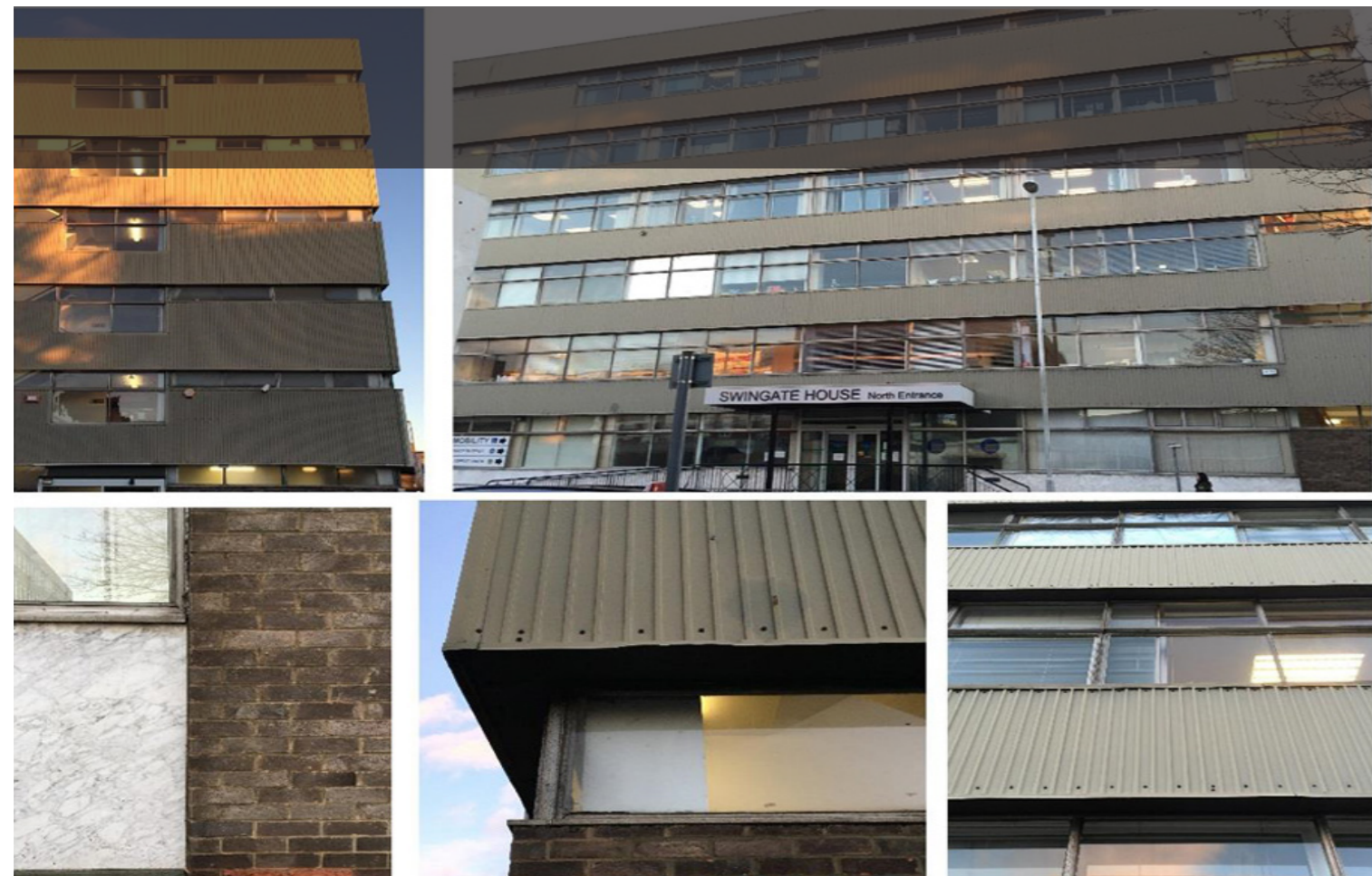
The competition formed part of the students' ongoing course work; they developed a masterplan to improve an existing town centre. Within this masterplan the competitors were asked to identify one retrofit or new build project and provide detailed design to turn this into a certifiable Passivhaus building. Each university has identified a live regeneration scheme with support from the associated council; student projects have the chance to potentially inform & influence the local redevelopments. The locations have similar post-war, concrete urban centre characteristics.

As part of the competition, students received Passivhaus teaching from external Passivhaus experts as part of their coursework, had access to PHPP & DesignPH, as well as undertaking a site visit to experience at first hand the award-winning Hereford Archive and Records Centre, which is aiming for Passivhaus certification.

Each University shortlisted 3-4 projects for the competition, from which the judges picked 3 winners.



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## ANDREW SMITH: DEEP GREEN & KEEP IT SIMPLE

A report for Stevenage Borough Council outlining refurbishment options on the former Lloyds office building in the centre in Stevenage focusing on an analysis of external and internal wall insulation.

University of Hertfordshire Shortlist:

- Amy Tempest
- Andrew Smith
- John Shuttleworth
- Raymond Lee

“ We're proud to sponsor the Passivhaus student competition. The products and solutions we create play a fundamental role in creating a more sustainable built environment and sustainable communities so I very much enjoyed seeing all the students' entries. I'd like to extend congratulations to the winners and all who took part. Working with these talented young architects and planning students is key to supporting their development, and unlocking creative design ideas that place whole life sustainability at the forefront.

**Martyn Kenny, Tarmac**



## CHENGLEI SHENG: MULTI-BEESTOWN

After working on group masterplans, students developed their own designs for either a new build or retrofit mixed use development designed to Passivhaus Standard. The brief included an iconic destination building that links with important landmarks, and has appropriate scale & presence to the new tram.

University of Nottingham

- Chenglei Sheng
- Lui Fengling
- Sabrina Mostofa - Highly commended

JUDGES  
 Martyn Kenny, Tarmac  
 Fran Bradshaw, Anne Thorne Architects  
 Prof Mark Gillott, University of Nottingham  
 Jon Bootland, Passivhaus Trust

“ It has been interesting to see the variety of entries from the students, as they represent the different skills that are needed to deliver a successful Passivhaus, from concept design through detailed design and PHPP calculations and energy efficiency measures to be implemented. It's great to see such an enthusiastic response to Passivhaus from the next generation of designers and consultants!

We've been delighted to work with Tarmac, particularly because the choice of materials has such an impact on the thermal performance of a building in terms of managing both heat losses and thermal gains.

**Jon Bootland, Passivhaus Trust**



## THEO SCARAMANGA: WATER PHENOMENA

Students were encouraged to produce 'civic' minded projects focusing on the repair of city fabric by the insertion of an appropriate master plan, a multi-occupant Performance in Education complex and well considered public space, as well as the retrofitting of a 1960's office block to Passivhaus standards.

University of West of England Shortlist:

- Theo Scaramanga
- Will Webb
- Anna Sturtivant
- Michaela Malia



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## PARTICIPATING UNIVERSITIES

