

# IBSS ONLINE BROWN BAG “LUNCH & LEARN” SESSIONS

Y-Project – Developing a high-performance house for Solar Decathlon China 2021

**Date:** 2nd December 2020, Wednesday

**Time:** 12:10 – 12:50

**Event Language:** English

**Live link:** Link of seminar will be sent upon registration

**Registration:** Please [click here](#) or scan the QR code



Solar Decathlon is a worldwide renowned collegiate competition and applied research initiated by the US Department of Energy in 2002 and subsequently also held in China, Europe, Africa and the Middle East. Y-Project has been selected as one of the 15 finalists of Solar Decathlon China 2021 and granted a funding from China Overseas Development Association. Together with XJTU, the partnership comprises Thomas Jefferson University (Philadelphia, USA), Zhejiang University – University of Illinois at Urbana Champaign Joint Institute (Haining, Zhejiang), and the International Bamboo and Rattan Organisation (Beijing).

We will design and build a state-of-the-art solar house, showcasing the most advanced building technologies, control systems and design strategies. A structure in engineered bamboo, integrated renewable energy production, green walls and roofs, adaptive facades and advanced home automation are some of the main features of the project.

Our prototype will compete against the other international projects in ten contests, mostly performance-based, and after the exhibition in December 2021, will be kept as a demonstration facility for the 2022 Winter Olympics in Zhangjiakou.

Y-Team is looking for innovative and forward-thinking partners to join the team and be part of this exciting endeavour. We will develop with students, academics and industries a project that integrates the best of the current research and technology in a high-performance prototype thought to pave the way for future advancements in the residential building industry.

## About the Speaker: Dr Marco Cimillo

Marco Cimillo is an Associate Professor at the Department of Architecture and Design and is currently serving as Associate Dean of Learning and Teaching of the School of Design and Director of the Building Physics Lab, after being Programme Director of the BEng Architecture for two years.



He was awarded his Master's Degree in Architecture and his PhD in Environmental Design by Sapienza University of Rome, and is also a fully registered architect, a LEED Green Associate and a member of IBPSA (International Performance Simulation Association) and SITdA (Italian Society of Technology of Architecture).

Before joining XJTU in August 2016, he carried out research and teaching activities at Northumbria University in Newcastle, at Sapienza University and the Italian National Institute of Architecture in Rome and at University of Camerino. Furthermore, he was a visiting lecturer at Polis University in Tirana and taught numerous CDP courses for the Architect's Board of Rome and other Italian institutions. In Italy he also worked with several architecture firms as a designer and as a consultant.