

DESIGN REALISATION, ENGINEERING WORKSHOP 9-11.NOV

Dato: 23/10/2016
Side 1 af 3

The workshop will be held in groups of 6-7 students together with a professor from the studio, climate engineer and structural engineer (Each studio will make sure to divide students in the groups of 6-7 students see blow). Each group will use approx 2 hours on identifying the students structural or/and climate issues with prepared printed set of drawings to make a base to use for the discussion. All groups together with their studio teachers prepare a set of structural and climate issues based on the student projects to be discussed and analysed together. Each student prepare 5 minutes' presentation of their projects and their structural and climate issues are discussed. Many of the topics and issues even for student's individual projects might turn out to be the same, so therefore it might turn out that not all projects need to be discussed and the first model suggested might be the best. The idea of the workshop is to elaborate on as many structural and climate issues to give a brought insight to this topic together with a deeper understand of the individual projects concerning design Realisation.

Engineering workshop:

Studio 2A - 7 students per. Workshop (5 groups)

Studio 2B – 6 students per workshop (3 groups)

Studio 2C – 7 students per workshop (4 groups)

Wednesday 9. November

workshop 2A 1 (Stefan & Boris) / 2B 1 (Matthew & Andy)

workshop 2A 2 (Stefan & Boris)/ 2B 2 (Matthew & Andy)

15.00 – 17.00 Auditorium A, Lecture by Stefan Holst & Boris Peter

High Comfort Low Impact Buildings by Multidisciplinary Design: Energy and Structure Stefan Holst, Transsolar and Boris Peter, Knippers Helbig Advanced Engineering

Thursday 10. November

workshop 2A 3(Stefan & Boris) / 2B3 (Matthew & Andy)

workshop 2A 4(Stefan & Boris) / 2C1 (Matthew & Andy)

15.00 – 16.00 Auditorium A Lecture; Integrated Environmental Design of Buildings

Using Comfort and Delight as Strategic Design Drivers by Andy Ford Director of the Centre for Efficient and Renewable Energy in Buildings (CEREB).

16.00 – 17.00 Auditorium A Lecture 'Structural Engineering – Tools and Materials'

it will be a discussion of some different materials, forms and design methods by



Friday 11. November

workshop 2A 5(Stefan & Boris) / 2C 2(Matthew & Andy)

workshop 2C 3(Matthew & Andy) / 2C 4(Matthew & Andy)

End of workshop

Follow-up consultation 30 nov.- 2 Dec. 9.00-16.00

This will be an individual consultation approx. 20 minutes for each student since this might be too tight each studio has to make priority – some project might need more attention than others or some have similarities. Each studio will have to make a schedule. The alternative could be common pin up for selected projects, that all will get more knowledge out of. This might also be different from between studios. Let me know what you think or if you have other suggestions.

Consultants:

Structural engineering: Matthew Wells & Dominik Foertsch

Climate engineering: Stefan Holst & Markus Kraus

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Studio 2A – 35 students

Studio 2B – 18 students

Studio 2C – 25 student

Workshop External Associated professors:

Andy is Director of the Centre for Efficient and Renewable Energy in Buildings (CEREB).

Andy has a graduating as a mechanical engineer he was sponsored through his degree by RA Lister diesel engine manufactures in rural Gloucestershire. On graduating he moved to London and joined Max Fordham and Partners a highly regarded Building Services engineering practice in London with an unusual democratic structure and became a partner.

In 1983 at the age of 30 he left to establish his own consulting practice 'Fulcrum Consulting' which became famed for advanced integrated low energy building design and sustainable master planning. The practice has won many industry awards. Whilst the buildings he collaborated on have won architectural acclaim. Fulcrum as a practice continued independently for 25 years and grew to 150 staff before becoming part of Mott MacDonald in 2008.

Andy's involvement with the future direction of the industry has grown over the years. Fulcrum proactively lead the industry debate around sustainability and were founding members of the UKGBC. Andy was the Technical and Policy Chair for the first 3 years of operation and remains a UK Green Building council Ambassador. He has had a long interest in research, innovation and knowledge transfer working as a research manager in DTI Partners in Innovation program and serving on the Modern Built Environment Knowledge Transfer Network steering group since its foundation. He was awarded the IMechE Built Environment Prize in 2008 and an honorary doctorate by Herriot Watt University in 2012.

Structural engineer, architect and author, Matthew Wells

Matthew works across the fields of engineering, architectural design, and materials science. He founded his consultancy, Techniker, 20 years ago to bring inspiration to non-standard design problems. Projects include bridges, buildings, installations and books



Stefan Holst Managing Partner and CEO

Stefan leads Transsolar's Munich team with a wide background in high-comfort, low-impact building concepts in projects around the world. He joined Transsolar after having researched on solar energy storage systems and building integration in Munich. Stefan has collaborated with world known architects on numerous international design projects and competitions. He directed the team for Bangkok Airport, the company's first international large scale project, from the very first innovative concept ideas to final commissioning of the building's integral concept on site. Stefan has significantly contributed to the company's building and system simulation tools and directed the software development team for several years. He lectures on Klima Engineering at the Institute for Experimental Architecture at the University of Innsbruck and frequently giving talks at Universities and international conferences on sustainable design.

Boris Peter Structural Engineer

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Associate Professor

Heidi Merrild