

Daylight & Sustainable Transformation

Sharing Northern Experiences

In Architecture, Engineering and Urban Design

Conference November 18th 2013

The conference is supported by Realdania and is organized by the Technical University of Denmark (DTU) in collaboration with the Danish Association of Architects and the Danish Society of Engineers, society of civil engineering (IDA-BYG).



This conference focuses on sustainable transformation of the existing building stock with a special emphasis on utilizing daylight to enhance qualities and values of the built environment.

Speakers will present ideas, visions, new knowledge and concrete realized projects which may serve as models for the challenges of upgrading the existing building stock to meet quality, energy and climate targets.

Three themes: *Innovation, Daylight and Transformation* will bring together leading practitioners and researchers to discuss the challenges, and how to turn the necessity of change into an opportunity for improving cities, buildings and quality of life.

Participation is free, but a limited number of places are available. Book your place at:

<http://www.dtu.dk/Service/Kalender/2013/11/dagslys-og-renovering>

The program may be subject to change

Programme:

8.00 Registration Opens

9.00 Sustainable Transformation I

Klaus Dyhr – Krydsrum Arkitekter, Renovérprisen Winner

Birgitte Dela Stang – Alectia Research & Development

Birgit Risholt – Norwegian University of Technology and Science (NTNU) / Zero Emission Buildings

10.30 Collaborative Innovation

Peter Andreas Sattrup – *Technical University of Denmark*

Ole Hornbek – JJW Arkitekter

Marie-Claude Dubois & Kajsa Sperling – Lund University & White Arkitekter

12.30 Lunch Break

13.30 Daylight

Jakob Strømmand-Andersen – Henning Larsen Architects

Ulrike Brandi – Brandi Licht / Brandi Institute for Light and Design, Hamburg

15.00 Sustainable Transformation II

Adam Khan – Adam Khan Architects, Nordic Built Winner Denmark

Ola Broms Wessel – Spridd Arkitekter, Nordic Built Winner Sweden

Jette Birkeskov Mogensen & Heidi Merrild – SHL Architects & Loop Architects, Nordic Built Winners Norway

Moderators:

Kjeld Johnsen – SBi / Aalborg University

Peter Andreas Sattrup – Technical University of Denmark

THEMES:

Transformation - Upgrading the Existing Building Stock

How should we upgrade and transform our existing cities and buildings in order to meet the demands of new patterns of living and working while reducing energy use and managing resources efficiently?

Cities and buildings shape our daily life and frame the activity patterns of contemporary society. Buildings constitute a great share of societies' social and economic capital, and are meant to offer healthy, enjoyable, affordable and productive living and working conditions. The changing demographics and continued urbanization poses multiple challenges to the transformation and renovation of existing buildings and cities, while the energy demand and resource use of the built environment needs to be reduced. This conference bring together leading practitioners and researchers in order to discuss strategies, methods, and philosophies of how to improve the quality of the built environment for a sustainable future, - presenting new solutions and knowledge on sustainable transformation.

Daylight – Enhancing value and saving energy

Daylight is a key factor in sustainable architectural design which has important impacts on the experienced quality of buildings and urban spaces as well as well-being and health. Daylight and sun are sources of energy and may even add economic value to design solutions, and are therefore important resources in architecture and urban design. At the same time, the availability of daylight and sun are highly specific to local conditions, and are very dependent on architectural design decisions. Since daylight may be scarce at higher latitudes, the distribution and articulation of daylight is of particular importance in the design culture of Northern Europe. New projects show inspiring new ways of distributing and articulating light for energy efficient and aesthetically sophisticated buildings and urban spaces.

How can daylight design principles be used to improve buildings and urban spaces, achieve higher environmental quality and contribute to energy efficient design?

Collaborative Innovation between Practice and Research

In the day to day life of small and medium size enterprises, individual projects marked by limited funds and tight deadlines may provide a challenging ground for keeping up a continued effort of innovation and knowledge creation. Fusing short-term development projects and longer-term research projects in collaborations among businesses and universities may provide a fertile field for innovation in architecture, design methods, and evidence based decision making. Knowledge creation requires intuition, creativity and structured ways of knowledge sharing.

New methods of decision support in design are being developed in innovative collaborations between businesses and universities. Adding a life-cycle perspective on the processes of transformation of the built environment may aid policymakers, consultants and developers to situate and gauge design decisions with greater clarity, while digital modeling tools may provide useful feedback on complex design issues such as energy, resource use and environmental impacts.

How can research and development collaborations between businesses and research institutions accelerate knowledge creation and innovation in sustainable transformation of the built environment?

How can design guidelines be developed to assist policy makers, designers and individual property owners in navigating the process of sustainable transformation?

Venue & Audience

The target audience is professionals and decision makers in the building industry and planning along with researchers in architecture and engineering.

The Conference will take place 18th November 2013, 9.00-17.00 in Auditorium s1, Building 101 at the DTU campus in Lyngby north of Copenhagen. The auditorium is on the first floor up the spiral stairs immediately to the right of the main entrance from Anker Engelundsvej.



The campus is accessible by car or public transport. Travel time to the campus is 35-45 minutes by public transport or 20 minutes by car from central Copenhagen. See www.rejseplanen.dk for connections.

The conference is supported by the Realdania foundation, and access is free. There is a limited number of places available though, and attendance must be booked in advance before 6th November 2013 through the registration page: [Click here for registration](#).

Accommodation is available in all price ranges in central Copenhagen, and a small selection of hotels is available in the vicinity of the DTU Campus.

Sponsor:

Realdania - www.realdania.dk

Realdania is a strategic philanthropic association

Organizers:

Peter Andreas Sattrup, Architect MAA PhD Associate Professor – DTU -
pans@byg.dtu.dk

Danish Association of Architects – www.arkitekforeningen.dk

Danish Society of Engineers – www.ida.dk