

**Lecture 4**

Wednesday 19 January 2011. 1400 – 1600

***Architects' Approaches to Sustainable Design.***

**Harald N. Røstvik**, Sivilarkitekt MNAL.

This lecture studies different approaches to sustainability challenges through the examples of selected architects. The works studied include the use of natural materials, natural ventilation and evaporative cooling as well as using mass to stabilise temperature changes over the seasons (Hassan Fathy, Egypt). The European and Asian examples are selected among the work of Renzo Piano and Foster & partners. Some are works of relevance to Norwegian climate. The New visionaries include architects like French Vincent Callebaut, Spanish Ecosistema Urbano and British Smith & Gill.

**Lecture 5**

Wednesday 02 February 2011. 1400 – 1600

***Building Materials and Sustainability.***

**Bjørn Berge**, Sivilarkitekt MNAL, Gaia Lista.

The knowledge of environmental impact on the use of materials should lead to us choosing materials with as little impact as possible. Architects play a crucial role in so doing. The impact should be containing knowledge about the whole process (cradle to cradle) and include the transportation energy necessary to move materials. Naturally the recycling or reuse issue is also a key element.

Bjørn Berge is the “guru” in Norway as regards environmental impacts of different materials. He has written several books on the issue.

**Mini Symposium - same day – but before the lecture !**

Wednesday 02 February 2011. 0915 – 1245

***Building Materials and Sustainability.***

Bjørn Berge will hold an informal mini symposium at BAS for all interested parties. It will be in the format of a questions and answers session leading to discussions where everyone can raise issues related to materials and sustainability.

**Lecture 6**

Wednesday 16 February 2011. 1400 – 1600

***Natural Ventilation.***

**Harald N. Røstvik**, Sivilarkitekt MNAL.

It is easy to be “for” natural ventilation. It is much harder to figure out where and when it works and why. Natural ventilation has its pros and cons. To even begin to understand it as something more than a “wishful thinking slogan” symbolised by colourful arrows on drawings, we need to take a critical view at the science of natural ventilation. Through a range of examples this lecture will identify the parameters of how natural ventilation can work, as well as where and why it does not work and should be abandoned.