

Teachers :

Arnstein Gilberg, Marius Waagaard and August Schmidt
AAR4623 – Topology, typology and tectonics (15 ects)
AAR4904 – Topology, typology and tectonics (7,5 ects)

ARCHITECTURAL DESIGN | an investigation of the meaning of local building materials – the case of Valdres



// TOPOLOGY

// TYPOLOGY

// TECTONIC

The course will investigate the meaning of the use of local materials in architecture. The question might seem controversial in a time where architecture and construction technology is based on use of materials from all over the globe. The course will discuss how global understanding and local thinking can enrich one other in a dualistic relationship, the meaning of the local in the global.

- What is the impact of the architects choices versus a local society when it comes to value a traditional building culture in today's industrialized production?
- What is the impact when it comes to value local raw materials, local competence in production, in handcraft and industrial building.
- Do the architect need only to choose between existing materials or do her or she see a possibility to invent new products?
- What is the impact on local economic, social and cultural life when building houses and constructions is based on local materials, local culture and local social life.

The investigation of the course is based on following three parts and the relationship and interaction between them:

A: VANG

Vang in Valdres , a village in between the eastern- and western part of Norway. In Vang, the western nature blends with eastern culture. The understanding of the history and economy together with the social- and cultural life, will be studied in relation to the topology of the place and the surrounding area.

Local partners: Innovangsjon SA and Vang municipality

B: INDUSTRY

The four local industry partners are Norsk Massivtre AS, producing solid wood elements, Begna Bruk AS and Miljøkledning, producing high quality spruce for structure and cladding to be exposed untreated, the local cattle farm Nørre Leirhol in Vang

C: NTNU

NTNU – Department of Architectural Design, History and Technology.

Course AAR 4623 and AAR 4904, students and teachers work.

Departments team on "Materials and constructions".

The ongoing research program "Tre I Valdres 2018"

Teaching

An experimental working method will be introduced. This as a way to open for questions of importance in a creative process and also as a way to give basic understanding of landscape, materials, and building practice as a source of meaning in architecture. It is less the right answers that have importance here, but more in which way questions are raised. The course will naturally attend to build up a wide range of knowledge. At the same time it will over and over emphasize a learning processes related to skills, as a source for necessary aesthetics, practical and theoretical experience. This again means "learning by doing – and reflection" as pedagogical method for developing competence.

The course will emphasize the value of local topology and local building culture as a base for industrial understanding. For the sake of the tectonic, it is a challenge to bring traditionally based knowledge into modern production.

The site and case for the course is the Nørre Leirhol farm in Vang. The project work will include a development strategy for the farm including architectural design.

The course also includes a design competition, detailing, planning and building a structure in 1:1 scale. The typology to be built is either a compact cottage or a bathing house with a small bridge and a viewpoint. This will be decided during the course. The site for the building is on the small mountain summer farm, which is a part of the main Nørre Leirhol farm, located 450 meters above.

Practical information

- Two trips to Valdres. Field trip in week 7 and building 1:1 in week 19 and 20
- Estimated cost pr. person is apx 3000NOK mainly to cover expenses related to the excursions
- Maximum number of students: 16
- Main language is english
- Starting date: Monday 6. of February 2017
- End date: Wednesday 7. of June 2017

Literature:

1: Towards a Critical Regionalism: Six points for an Architecture of Resistance.
Kenneth Frampton

2: "A typology for defining agritourism" 2009. Sharon Phillip, Colin Hunter
and Kirsty Blackstock