Wood Architecture & Pattern Books

Rauland & Ramme, Norway 16th – 23th May 2008

Background:

From the $16^{th} - 23^{th}$ of August 2008 the European School of Urbanism and Architecture (ESUA) held a workshop on Construction in Wood and Pattern Books in Norway. The workshop was divided in two parts, the first in Rauland the Telemark Region, and the second one in Ramme near Oslo.

The Rauland and Ramme Test Course:

The workshop consists of two modules:

Rauland module:

The module was divided into two parts:

- 1. Traditional architecture and building techniques;
- 2. Contemporary architecture and modern building techniques;

Goals of the workshop in Rauland:

To give the students an insight into wooden architecture and the complex process of constructing these types of building.

The Rauland module was organized by Ottar Romtveit, Arne Sødal and Claus Zapffe.

Ramme module:

After the Rauland module, the test course continued with a workshop in Ramme on Pattern Books.

Goals of the workshop in Ramme:

To give the students an introduction to the methodology of making Pattern Books, reading and observing and comparing different patterns.

The tutors for this module were Joanna Alimanestianu and Michael Mehaffy.

Original application

Based on the curriculum and training methodology hypothesis (WP 2), the WP partners will focus on the problems and possibilities in real-life situations by studying ongoing development and building projects in the city of Stavanger, Norway.

The partners will visit and make interviews in selected projects ranging from single buildings to urban areas, all included in the ongoing "Norwegian Wood" programme (neither funded by the ESUA project nor the Leonardo programme), which aims at building and exhibiting demonstration projects using new wood technologies. "Norwegian Wood" is an important element of Stavange`s "European Cultural Capital 2008" programme. We will also use our participation at the event for dissemination of preliminary project results to industry and academia.

Based on these experiences, the partners will participate in a three day test course located to the Telemark University College in Rauland, on traditional and new wood technologies.

The short course will include both workshop training and classroom teaching, and be open for participants from building industry, practicing architects, urban designers and students from the INTBAU / Prince`s Foundation network. The short course will be held in collaboration with two of the Affiliated Organisations, the NGO Stiftelsen Byens Fornyelse and the local construction company Rauland Aktivitets Service.

All participants in the test course will be invited to take part in the evaluation and critique of the event, and make proposals for a revised teaching methodology and curriculum.

Programme:

August 16: Arrival of participants from abroad. Romanian students will be picked up at Torp Airport. Accommodation one night in Arne Sodal's summer house close to the Torp airport.

August 17: Travel to Rauland by car (three hours). Accommodation at Rauland Academy (three nights). Introduction to the program. Norwegian students will travel directly to Rauland.

August 18 -19: Course in building techniques in wood, at Ottar Romtveit's workshop in Rauland. Mr. Romtveit also teaches traditional building crafts at the Rauland University College.

August 20: Departure from Rauland in the morning. Visit to factory making wooden building materials based on new technology. In the evening arrival at Ramme Farm, 40 kilometers from Oslo. Accommodation 3-4 nights.

August 21 - 22: Pattern Book exercise at Ramme farm. Tour of local traditional architecture to make comparison with the Romanian vernacular architecture studied for the pattern book exercise..

August 23: Morning: Final presentation and discussion. The Romanian students will depart for Torp airport after lunch. Other participants may attend the Ramme Music Festival the same evening.

August 24: Departure of the last participants from Ramme.

Participants

Tutors

Arne Sodal, Claus Zapffe (design and construction in wood).

Ottar Romtveit (crafts).

Michael Mehaffy, Joanna Alimanestianu (pattern books).

FU- Folkeuniversitetet representative: Audun Engh.

Students

Marko Brasovan (Ro) Bogdan Isopescu (Ro) Clara Piscoi (Ro) Sergiu Sabau (Ro) Alexandra Spiridon (Ro) Paul Valeanu (Ro)

Workshop resultsDuring the workshop the students produced a number of pattern book files, both studies of existing buildings and urban situation

















TOWN MAIN STREET

Urban Type Defining Characte

Description: Grown from the typology of the valley settlement, the
main street is the most representative street of the strate representative street of the settlement, like a
time consury. Has a logs must be tole
into consideration.

Material: Turner with edges, an
panel adequals.

For intermedial and coremercial mive in equal amounts.

Final benefit.

Issue: The sidewalls have been surreadered to the austitine because of the intense auto miffic. The reduced sidewalks are again reduced by being occupied by ness-going commerce stalls.

Realtinships to comouns/Topogra-phy: It follows the natural topog-caphy.

Visus: The street curves strongly, allowing changing views. The custle is visible almost at all times.

Connection to other urban types: Bordering it with the Residential Artan, Foran Goues, Turist and Farmers Market, Residential Roads lead into it.

Materials: Tarreac with edges, and paved tidewalks. Famiture: Street loops, garbage bins, benebes.

Planting: Use plant arrangements and seruls to balance the artificial-ity of the buildings, powement and tannoc.

Billboards: First make sure it fits the building. Keep the color palent into synt, with the accepted settle-ment color pattern.

Conclusion: Although taking a part of the auto suffic, this steer has to have a predestrian life also. Sidulated a predestrian life also. Sidulated to the outsiles. The town furnishes and regetation will help create a preferration friendly and regenerative street for the consule.





MAIN STREET PERSPEC-







EXISTING SITUATION

BRAN MAIN STREE EXISTING SITUATION

A PATTERN BOOK FOR BRAN, ROMANIA

RESIDENTIAL STREET

Urban Type Defining Character

Description: The most communicated available in the settlement. In on the private lot. Mostly residential it can also be have a small connectal prosence for the second of the englishment of the public feel, compared to the Main. Street.

Street.
Issues: Here we can find infrestruc-ture problems. Sidewalks are miss-ing. Autolanes are impracticable.
Planting:

eng. Autoluses are impracticable.

Prosition: Hadining from the Town
Center, usually connected to the
Main Street or to other Residential.

Streets.

area, hillboarth win't be used.

Realitothips to communiTopognaghy. Keep a sight curve to the street to make the street fired as a space and not a causal. Insugator polacy for the post and the process of the main street. Attention records the main street. Attention must be placed even on the public space. Within the translation of the process of the main street. Attention must be placed even on the public space. Meaning that sidewalks, autobase and the sendences of themselves the point on the street.



Billboards. Mostly a residential area, hillboards won't be used.













STREET SECTION

SPECTIVE

STREET

VILLA WITH TOWER AND VERANDA



Cereal descripted

The tower and surends villa
in a concerny-side bosse, sheared in
a reidential area. It is a composition of a ranswar, nectungular brick
volume and a light, usually ceased
wooden finance, it is a composimodel for a principle of the glass of devided in survolume and a light, usually caused
wooden finance, it is a Lisabily
in law a 2.3-dm softwack from the
creek. The strong, white painted
volume creates a contrast with the
silightly decreated wooden states some
intermediary spaces in redistions are
strengthed spaces in redistions. The deconstant is used
or colorred with stoco, no side
in a ranke of natural store
in the resident space, to specify
variety, simulated storic, mossic or
committee.

Base

It is made of natural store
The cettrace is smally
through the proch and the veniral.
The contract is a to be use as a seabule.

Meterial and colorer
The structural walls of the
villa are ranked out of brick. The venmins and the porches are reade out
of brick. The vendata and colorer
The structural walls of the
villa are ranked out of brick. The vendata and the porches are reade out
of brick. The vendata and the porches are reade out
of wood. The two data the paint
is greet or cuttoulty used. The maisonary is covered with plaster and
white paint.

Eaver
The eaves are very expressive. The rafters can be seen and are slightly/decorated.







ORNAMENTS





A PATTERN BOOK FOR BRAN, ROMANIA



Student feedback

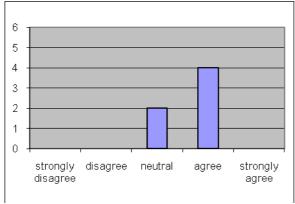
Feedback from the workshop and the ESUA project were harvested in four different ways.

Students were given an ESUA feedback form with 19 multiple-choice questions and 6 more open questions requiring more general answers and suggestions. The feedback form was based on the forms used for feedback at previous ESUA workshops, with several of the questions being similar, so that at the end of the project period the different stages of feedback can be compared. The content and results of these forms for the Rauland and Ramme workshop is given below

Six students have delivered the students feedback form. A group of students are as of July 2008 working on an independent student feedback report, which will be attached to this report in a future version.

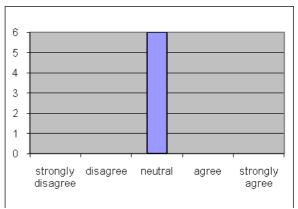
Below are the results from 19 multiple-choice questions given to the students in form of a questionaire:

Question 1 - "The teachers were good at explaining things to us"

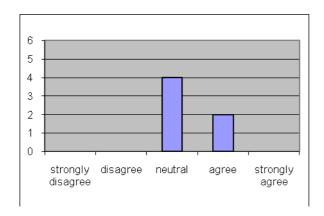


Question 3 – "This workshop felt important for my future profession"

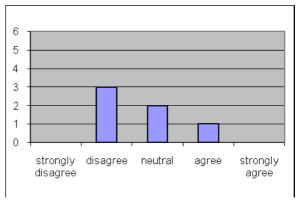
Question 2 – "The teachers have motivated me to do a good job"



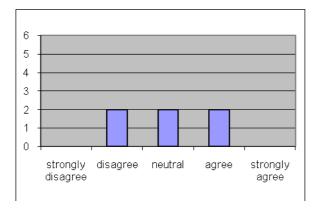
Question 4 – "For the most part I was aware of my progress in relation to the goals of the workshop"

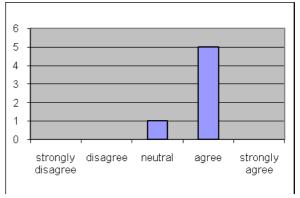


Question 5 – "For the most part it was made clear to me what was expected of me during the workshop"

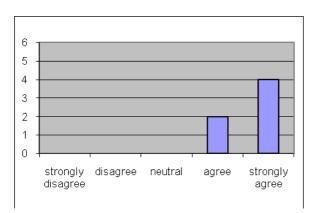


Question 6 – "We were allowed enough time to understand the things we had to learn"

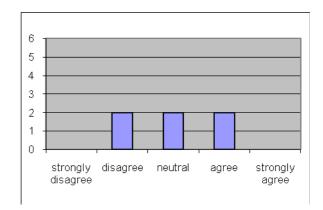




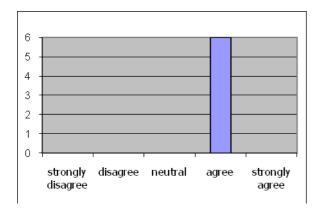
Question 7 – "The teacher listened to what we students had to say"



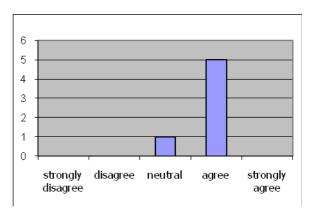
Question 8 – "I have devoted the necessary time to assigned tasks"



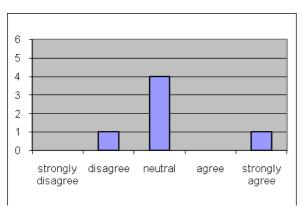
Question 9 – "The atmosphere in the class has been good"



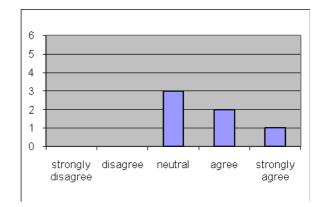
Question 10 — "The physical environment in the classroom / workshop venue has been satisfactory"



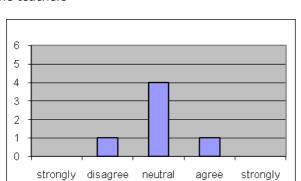
Question 11 – "The workshop has been relevant to my university studies"



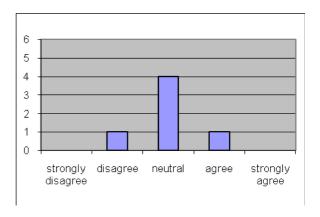
Question 12 – "The lectures have been interesting"



Question 13 – "There has been a good mix between assignments / work and lectures / information from the teachers"



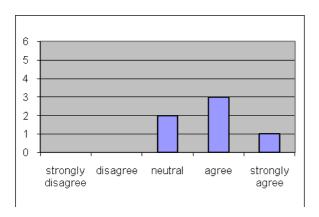
Question 14 – "The workshop has corresponded well to information given in advance / my expectations"



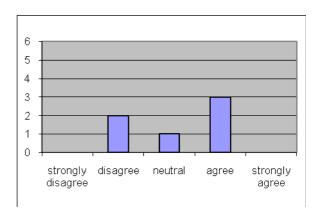
Question 15 – "I would like to learn more about the topics touched upon in the workshop"

agree

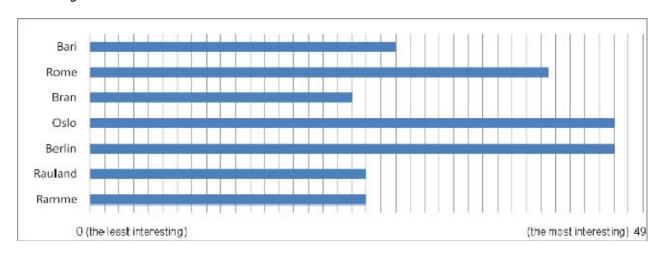
disagree



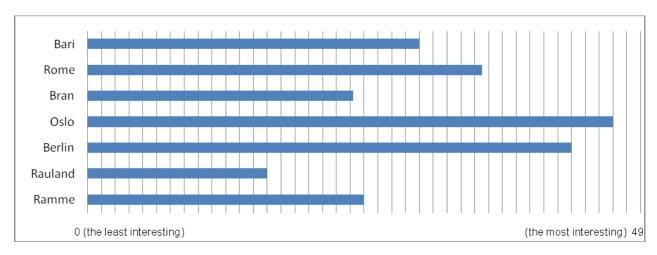
Question 16 – "The content of the workshop could form the basis for a one-year course at my architecture school"



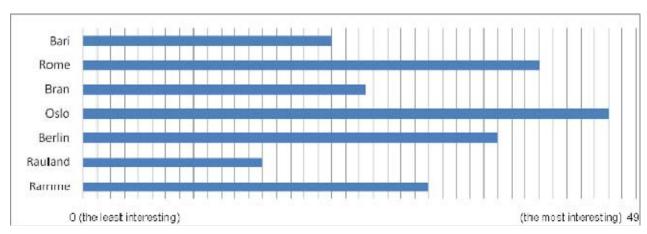
Question 17 – "Please rate the workshops according to **how interesting** you **personally** found them. Give each workshop a unique rating: 1 to the least interesting one, and 7 to the most interesting one "



Question 18 – "Please rate the workshops according to <u>how relevant to your current and future</u> <u>profession</u> you found them. Give each workshop a unique rating: 1 to the least interesting one, and 7 to the most interesting one "



Question 19 – "Please rate the workshops according to <u>how desirable to be the basis for a future</u> <u>full-scale architectural education</u> they are. Give each workshop a unique rating: 1 to the least interesting one, and 7 to the most interesting one "



In addition to the above 19 multiple-choice questions the students were given 6 more general questions to which they were encouraged to answer in their own words.

Question 1 – "The best part of the course / workshop, that should be developed further:"

- Insights in the way materials are being used and developed. Visits to factories and exemplary projects
- The part regarding the wood specific crafts
- The visits to the sites relevant to the course
- The constant interaction between students and tutors -> conclusions
- Diversity of topics: academic and practical work while changing the setting
- The pattern book-the dissection of what are the authentic characteristics of a place
- Thinking how to handle damaged places
- Building techniques in wood

Question 2 - "The parts of the course / workshop that should not be repeated - and why:":

- A better structure to the programme
- Talking about Bran beeing in Norway
- Don't work on a project like Bran from Norway, it's not in the ESUA spirit
- It was a bit strange to work on the Bran project while we were in Norway. Being on the site is important for collecting more information and feeling the place
- Working on Bran while beeing in Norway
- The dissection of how one style of architecture is better then others

Question 3 – "If the ESUA project were to design a one-year module in Norway (as part of a European five-year architectural education) based on this test course in Norway, what academic and practical content should the module focus on? "

- Sensitive observation of context
- Hands-on approach on wooden traditional buildings
- Wooden architecture, wood related crafts (modern and traditional)
- Wood technology
- Small scale settlements
- Community building how to build settlements with a sense of community
- "import or use local elements ?"
- Maybe it should focus on wood studies. Studying Norway's traditional architecture would be the main academic content while understanding the material both artisticaly and structuraly
- Pattern books
- Learning about traditional, but also modern building techniques ->comparison, advantages, etc
- Wood architecture

Question 4 – "Which elements would you propose to include in such a one-year module that were not touched during the test course? "

- Tehnology (Wood) physics of materials, designing with wood
- A huge amount of practical work with wood
- If it's possible hands-on approach to building
- Hands-on approach to designing wooden buildings
- Art seminars would be very nice. Experimenting by carving, playing with surfaces, combining materials etc
- Detailed local analysis for pattern books
- Designing with wood
- Hands on approach on wood
- Building in the natural environment, relating to the natural landscape

Question 5 – "General comments on the test course"

- I feel happy about the choice og bringing us in Rauland and see the Norwegian landscape
- Great field trips
- Some visits parts of the visits didn't have a relevant imput for the course (Raindeer center)
- The tasks of this course were not very clear. Sometimes it was very ambigous ad when it began to be clear it was to late. Maybe it should focus only on one task, two tasks were to much
- I thought it was interesting to work on different subjects and have different tasks (academical and practical) I think we didn't have enough time to get acquainted to either of them
- The Rauland part of the test course should have been much more complex, a lot more things could have been done and disused on the matter of wooden architecture and the impact of new building techniques.
- The Ramme part of the workshop was very interesting, but I am not convinced that we should have discussed the Bran issues there.
- The atmosphere was very pleasant in the second part of the test cores but not in the firs because of the lack of activity.
- Fantastic places, great people.

Question 6 – "General comments on the ESUA project"

- The experience of the last five workshops has determined the way I see my education, the profession, the craft, the human values that are connected with skills and life
- It is positive when teacher inform in advance on the content of the workshops
- Usually crafts can be learn by living tradition. ESUA proposes a kind of architect which will learn a bit artificialy. Even so, this kind of architect would have the knowledge to adapt to a generalized world and it's needs
- There were few lectures about buildings, building techniques, I felt always worked on a macro scale (besides the pattern book exercise)
- More practical work (working and experimenting with materials, textures), would balance the academical part, and the lectures
- Tradition is very important, but I think the way it evolved and the means of modern technology were not properly taken into consideration during the lectures and the practical exercises
- While doing a charrette or a pattern book (especially a pattern book), I think it would be very important for people involved to try to start searching for a result, to announce it to the local authorities, to negotiate, to understand the juridical means of implementing it and start doing
- I feel that the ESUA project is based on very good ideas and that it should be taken further
- For me the ESUA project was the most exceptional experience of my architectural education