tensile architecture

international student workshop

Lyon 2011
international student workshop

Ecole Nationale Supérieure d'Architecture
de Montpellier, France

Ecole Nationale Supérieure d’Architecture
de Nancy, France

Ecole Nationale Supérieure d’Architecture
de Grenoble, France

School of Architecture, HTW/
University of Applied Sciences, Germany

Lyon 2011

University of Applied Sciences, Saarbrücken
School of Architecture

1st edition 2011
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Several years ago, the cooperation between the ENSA Nancy, France and the HTW Saarbrücken, Germany started in the field of Light Weight Structures. Last year two more partners from France joined the cooperation ENSA Grenoble and ENSA Montpellier for a joint workshop on Membrane Structures, held in March 2011 at the ‘Grands Ateliers’ in Lyon, France. The purpose of this year workshop was the modelling and construction of large scale membrane constructions with special focus on the realisation of models.

During the one week workshop colleagues and students from the four participating European Universities worked closely together at the ‘Grands Ateliers’. This location is perfectly equipped and designed for hosting workshops oriented towards the main purpose of the ‘Grands Ateliers’ which is experimental constructing. The Region Rhônes-Alpes has set up the ‘Grands Ateliers’ for Universities in the greater region to enhance innovation in construction methods and modelling.

On the way to Lyon the participating workshop members had the opportunity to visit several examples of Modern Architecture this year focussed on the work of Le Corbusier.
programme

international student workshop, architecture of tensile constructions
ENSAmontpellier, ENSAnancy, ENSAgrenoble, HTWsaar

date: 21st march to 25th march 2011

site: everywhere outside like inside

project: the design and realisation processes of the Tensile Architecture are the heart of the training. Theoretical aspects of Form Finding, Pre-dimensioning as well as Cutting Pattern are presented. Afterwards there is an application in physical reality with small model experiments and scale 1 to 1 realisation for a textile structure with free purpose.

objectives: the purpose of this training, is to give theoretical and practical basics of the textile and cable nets building design. Each step of the design process is clearly described in order to overcome the complexity and allow the students to use these new design tools directly in an architectural practice. The proposed experiments use the professional materials in order to well understand the specific knowledge needed by the company technicians.

participants: 26 students of the ENSA Grenoble
22 students of the ENSA Nancy
6 students of the HTW Saar

teams: mixed

teachers: ENSA Montpellier: Nicolas Pauli
ENSAGrenoble: Olivier Bavarel
ENSANancy: Daniel Gross
HTW Saar: Klaus Köehler

studio: Les Grands Ateliers de l’Isle d’Abeau, Villefontaine

equipment: all provided by Les Grands Ateliers

material: all provided by Les Grands Ateliers
teachers
<table>
<thead>
<tr>
<th>Students</th>
<th>University</th>
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<td>Bessières Guillaume</td>
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<td>Zieger Florian</td>
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1st day
2nd day
3rd day
all together
Firmingny
Le Corbusier
Lyon
Musée
Gallo-romain
Ronchamp
Le Corbusier
groupe A - l’arkymétrie

jacquet fanny
colombo pauline
mekki-berrada antoine
monteiro dany
hafner sina
groupe B - Dou Li

seyedy mitra
fernandez juan pablo
d'andrea ariane
lahitette lydie
bendezu rayner
groupe C - 6lys
risse anthony
stel benoit
azevedo eduardo
rigard hugo
peraro lionel
brunello joanna
groupe D - axel

delduque gabriel
gras alice
halin quentin
maillot julien
thuiller diane
li hanyu
groupe E - gramophone
bergmann benjamin
janssem olivia
la rosa chloé
leyva perez sara
moyano garcia isabel
blanc caroline
groupe F - de2tensions
arthelemy guillaume
gozzo gabriel
paperin noëmie
tonin maxime
fournier carole
groupe G - le chaperon
bessières guillaume
martin marielle
welsch clémence
zieger florian
pery philippe
groupe H - focus
bolmer märri
dugaud delphine
campos alcaraz ignacio
demeure damien
oughlissi dounia
groupe I - déploiement

quiroz karina
fernandez guellermo colina
challier marielle
tamas simona
zibell nadine
groupe J - devil fish
chavanne antoine
de francesco gaetano
ceccin guillaume
faye florent
grimal francois
desenclos quentin

Ambiance nocturne
l’arkymétrie
realisation
dou-li
realisation
gramophone
realisation
focus
realisation
devil fish
realisation