



A L I C E

altitude

EPFL / ENAC / IA / ALICE atelier de la conception de l'espace fall semester 2008 dieter dietz, aline dubach, eveline galatis, olivier ottevaere, daniel pokora, isabella pasqualini katia ritz



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altitude

In semester 3 of the academic year 2008/2009 the ALICE studio developed projects along the newly opened m2-metro-line in Lausanne. The guiding topic in the ALICE curriculum was altitude.

Altitude locates us in a relative position in respect to the surface of our planet. It therefore addresses fundamental questions such as ground and gravity and presents a precise framework for a conscious process of designing an architectural tectonic project.

The studio developed inhabitable structures upon increasing heights. In learning how the environment is changing along a scale ranging from depth to high altitude (e.g. the change of pressure), we investigated how such shifting conditions can inform and impact on the conception of a responsive architecture project. At the same time we measured those conditions against our bodies by introducing a singular program performing adaptively at various heights.

The investigations are conducted by the means of the traditional tools of the architect: model, plan, section, as well as through the parallel implementation of computational technologies (2d and 3d modeling software).

The first-semester course is designed to give an introduction into investigations addressing space, scale, materiality, geometry and program. Through the course of the semester, the class developed design proposals in groups of 2 for an inhabitable platform performing specifically at different heights.

terre

meuble

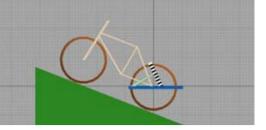
ALTIMETER

In the first week, each group had to invent a physical device measuring altitude. This device was to measure height and/or depth both as a local condition as well as to register altitude as a relative position in reference to the surface of the earth.

At the same time the device was to be able to record, amplify, or – more generally speaking – react to pressure.



WK 38 17SEPT WK 39 24SEPT







Altimeter

Conceptual model translating a topographical condition: Lausanne Flon

Samuel Devanthéry, Benjamin Melly

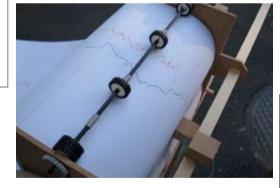


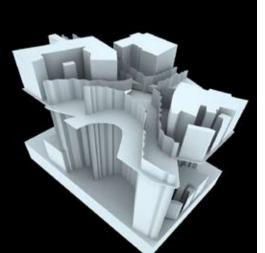


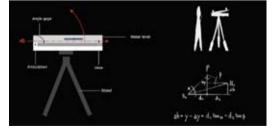


A bicycle transformed in a recording device, and the model derived from the data

Danny Te Kloese, Youcef Mezzour













Site survey below Place de la Riponne, Lausanne

Fabian Roth, Simon Wälti

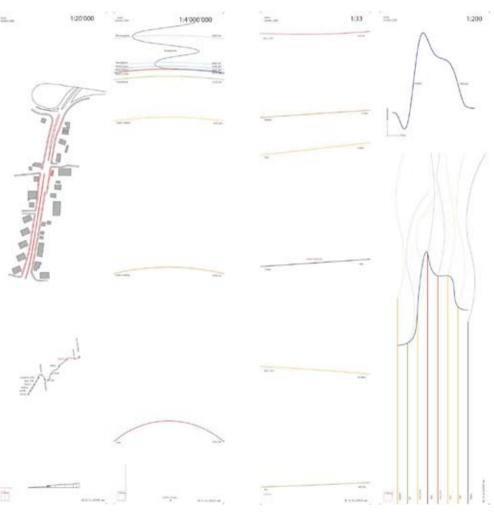




Cart for recording devices, data derived from surveys Augustin Clement,











SECTIONAL RECORDINGS

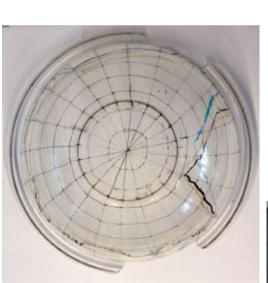
The altimeter was used to record heights in a given site and to draw sections accordingly. Drawing here was introduced as an instrument of analysis. This study in the form of a sequence of sections (for example tomographic) was focusing on the performance of the altimeter rising from a specific depth to various heights and the sectional condition of the given site.



Altimeter

Hemispherical device recording silhouettes and angular conditions of contours

Vy Pham Thi Hoang, Nicolas Feihl





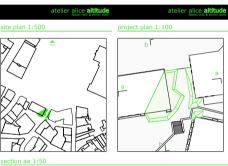


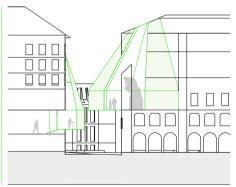
















BUILT SECTION

While the drawing exploration was ongoing, the students were extracting in parallel working models from the drawing sequence: a physical model as a reinterpretation of the drawings in the form of a built section. Emphasis was put on the found data in the site in relation to data referring to the altimeter.

The program of passage was introduced to link different data and in both drawing and the 1/33 model.

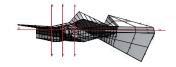
Built Section

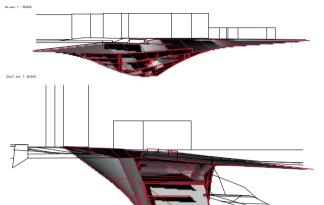
Sectional drawing, 3d-model, physical model, below Place de la Riponne

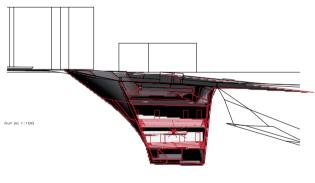
Fabian Roth, Simon Wälti

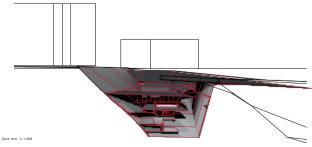
Cut ee 1:100

JULIEN PRUDHOMME - CAROLE WESTHOFF









Flat Forms

Scalar operations introduce inhabitable space

Julian Prudhomme, Carole Westhoff



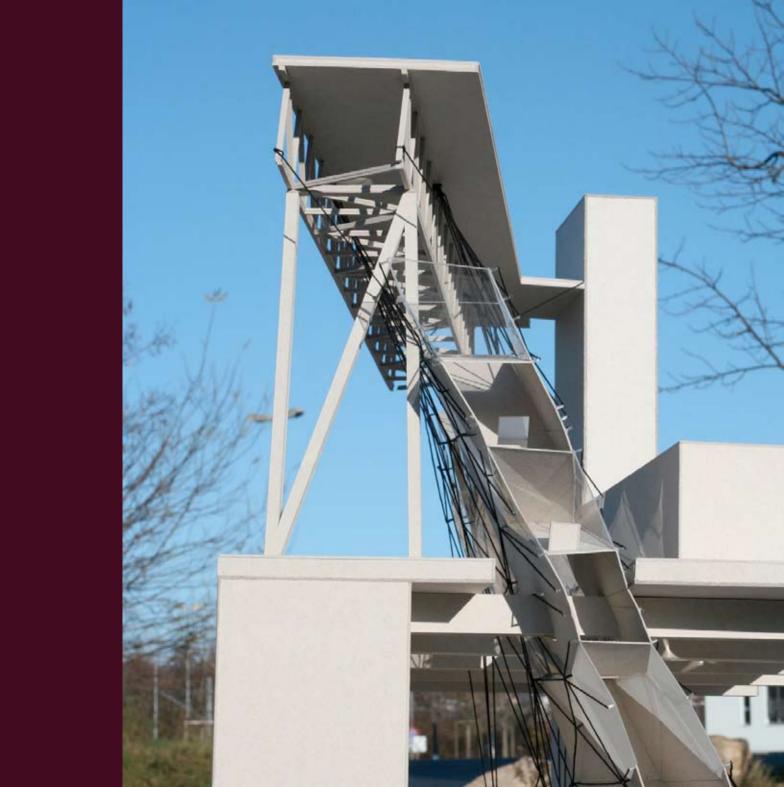


flat forms

DESIGN PROPOSAL

n a first part focus was set on responding to the prototypical site, the program, and the responsive scale of the platform and speculate on how the public will interact with the proposed program.

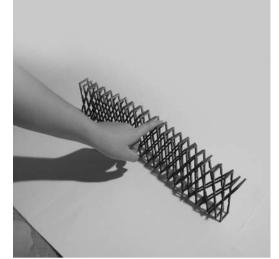
In a second part we were elaborating on a comprehensive structural system and on ar assembly of building systems and choices or materials.









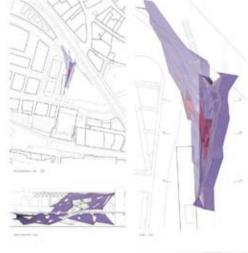


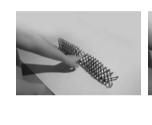
Project, Stage 1

A New Passage at Lausanne Ours

Danny Te Kloese, Youcef Mezzour

























Project, Stage 1 Climbing Wall at Lausanne Flon

Samuel Maire, Olivier Di Giambattista

visible world

FROM DESIGN DEVELOPMENT TO FABRICATION

The semester concluded with a three weeks charrette in which the proposed concepts and programs of the design proposal projects were revisited and articulated to become a comprehensive architectural project.







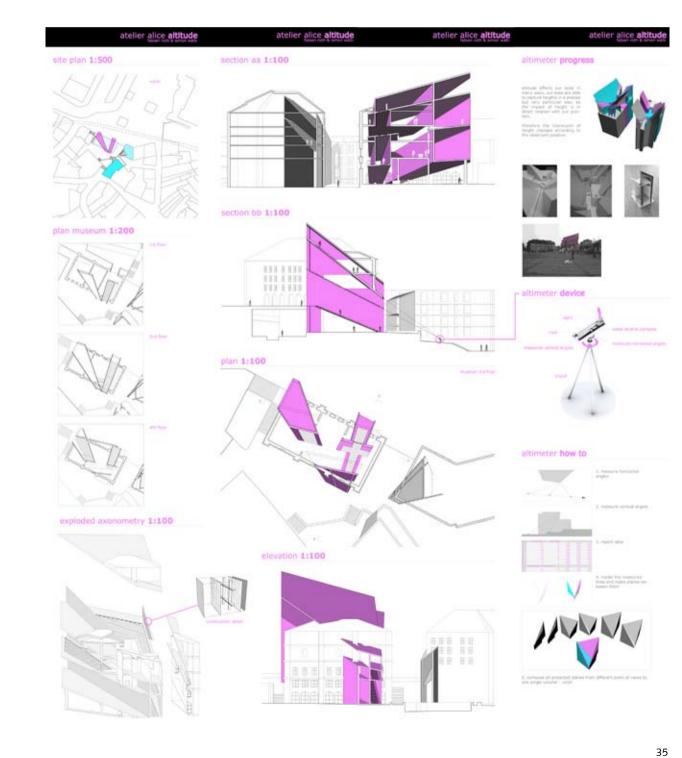




Museum Extension below Place de la Riponne

Fabian Roth, Simon Wälti





Final Project WK 49 3DEC

Greenhouse Intervention

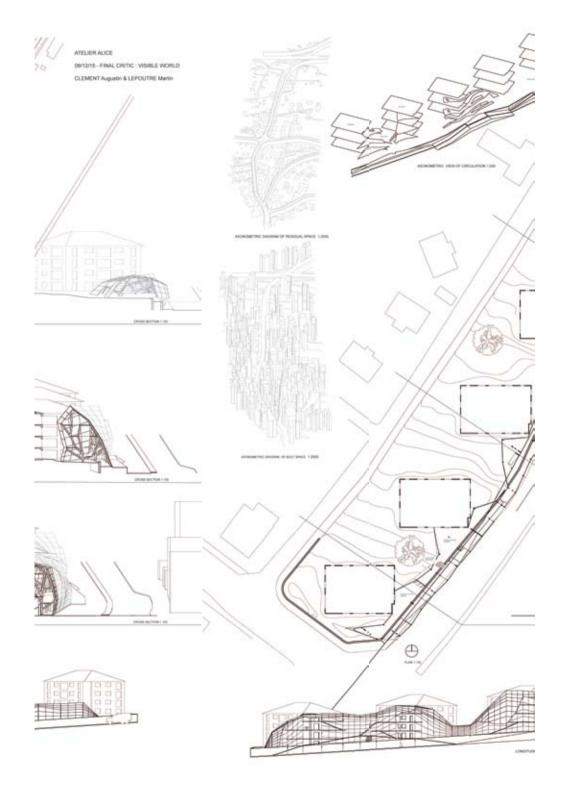
Augustin Clement, Martin Lepoutre



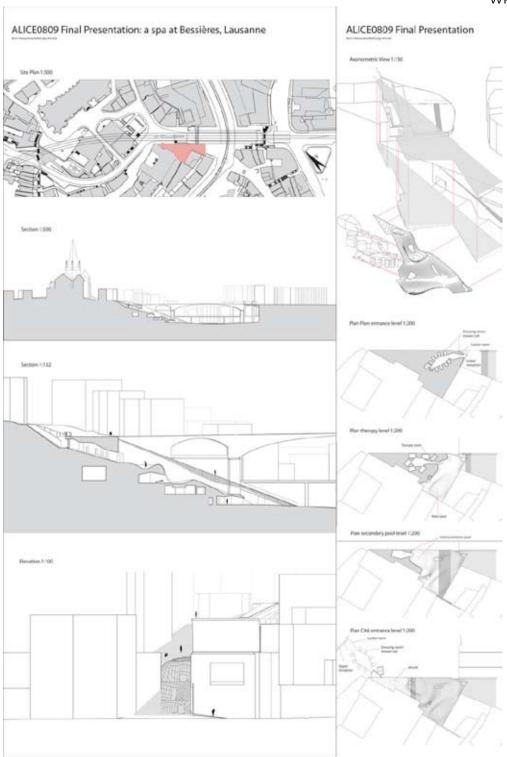


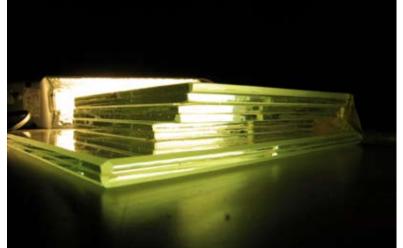


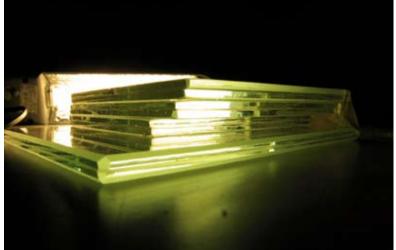




WK 50 10DEC













WK 51 16DEC

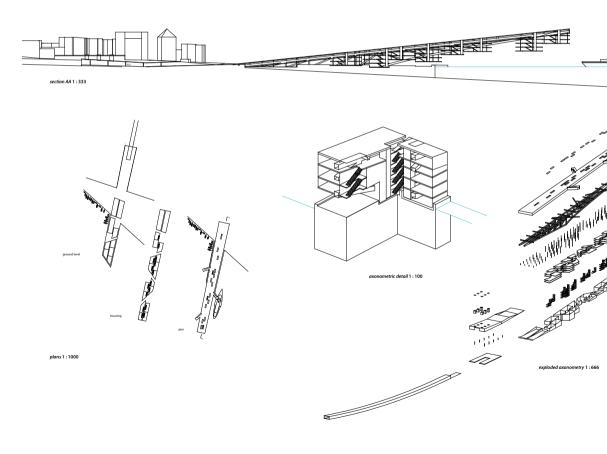
ALICE_altitude Epiney Lionel & Meredith Adrian Final Proposal / 081216











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team

acknowledgments

alice students 2008/2009

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alice team

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http://alice.epfl.ch/

