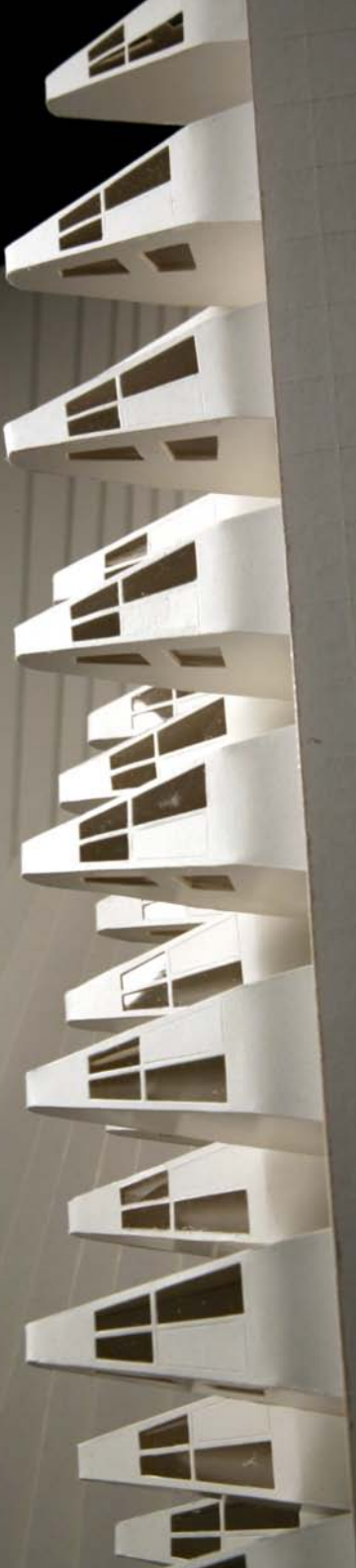


stuttgart design workshop 2011

sustainable architectural concepts

10.01. – 18.02.2011



„Pinokio“ by Jürgen Utz



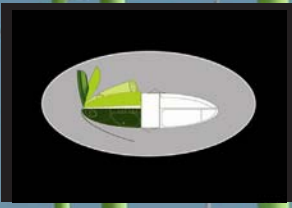
Universität Stuttgart

ibbte

Institut für Baustofflehre, Bauphysik,
Technischen Ausbau und Entwerfen

The Office of International Affairs at the Universität Stuttgart in collaboration with the Institute for Building Technology and Design is hosting a six-week architecture workshop for the third time in January/ February 2011 for students from Australian universities. The main focus of this workshop is the development of innovative and integrative architectural and technical concepts. In special studios,

participating students will work in creative teams together with students from the Universität Stuttgart. Emphasis will be given to sustainable construction and to the intelligent application of renewable energy in architecture. Lectures related to the workshop topic and excursions to interesting architectural sights will accompany the workshop program.





stuttgart design workshop | 2011

The objective of the workshop is to deal creatively with issues important in architecture today: This does not only concern construction and building materials, but is also a question of energy consumption and comfort.

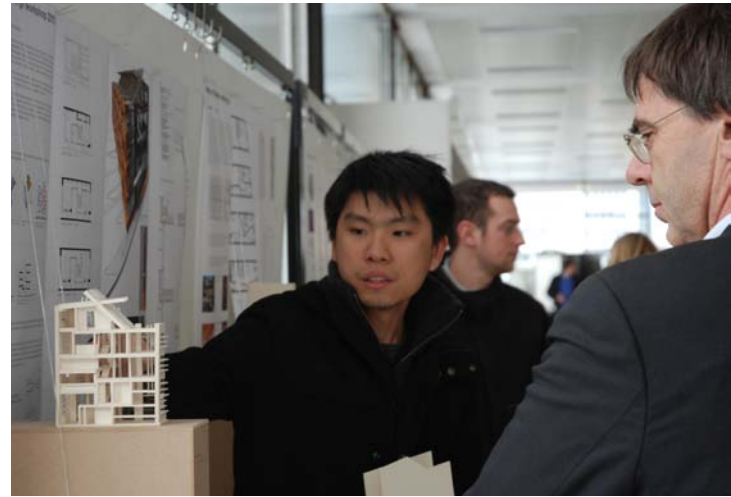
Concepts and solutions to be worked out during the workshop will be developed in an experimental way using different available design tools. The workshop will be conducted and tutored by professors and colleagues from the Institute for Building Technology and Design.



How do the colleagues from the other part of the world design?

Special studios from the faculty will be made available to the participating students, where they can work on the workshop project together with a group of Stuttgart students and exchange experiences with them.

The projects will be discussed and experiences exchanged during regularly planned presentations. A final presentation of the gathered results will conclude the workshop phase. In the course of the workshop, excursions will be organised in which project-related examples of architecture will be visited and building systems and concepts analysed. Furthermore, an introductory German course will be offered parallel to the workshop. Australian students with minimal or no knowledge of the German language will have the chance to get to know the German language and culture.



The interplay between building materials, building physics and building systems is of importance in achieving architectural quality. The influences range from physiological aspects to physical and technical necessities, to form finding and ageing process. For this reason IBBTE engages in resource-conscious building, energy-efficient concepts and constructions as well as with the meaningful and adequate use of building materials.

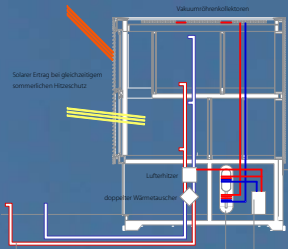
Architects and engineers are constantly confronted with questions of energy consumption in buildings, with topics of renewable energy and environmental concerns, with innovative building technologies, the choice of appropriate building materials as well as their integration in the design process. In view of the shortage of oil resources, rising energy costs and increasing energy consumption, technologies using alternative and regenerative energy is becoming more significant. For this reason it is important to develop an awareness for these issues (electricity and heat from sunlight, geothermal heating, fuel cells, CO2 emission, energy saving, etc.)

Architects by profession deal incessantly with technical concerns and scientific phenomenon whether relating to physics, chemistry, but also mechanics, environmental technology, etc. We are so to say "lateral thinkers" at the juncture between science and technology but also design, sociology and art.

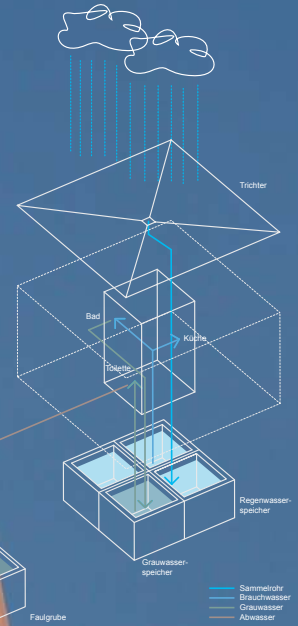
The stuttgart design workshop 2011 offers participants:

- Information about European material and energy saving standards and energy-efficient construction
- Opportunity to get to know new architectural concepts
- and to get to know innovative, technical concepts and their implementation
- Collaboration and exchange with German and Australian students

The participants will be confronted with all these issues during the workshop, and can collectively approach the problem in creative and diverse ways.



„Finnmark Tower“ by Markus Bidingmaier



„Unpack“ by Meiling Huang

How to apply

Applicants should submit their applications as a pdf-file (one file per student) on a data storage device (CD or USB) at the International Office of their home institution.

Deadline: October 15, 2010

The International Office should put together a data storage device (CD or USB) including all applications and send it by mail (express mail preferred) to:

Ms. Katja Schuster
University of Stuttgart
International Affairs
Pfaffenwaldring 60 (IZ)
70569 Stuttgart
Germany

Applicants need to have studied at least 3 years of Architecture by the time the workshop begins.

The number of participants is limited. Participants will be chosen by selection process should there be more applications received. The selected students will be notified promptly.

The following documents are necessary for the application:

1. Cover letter / Letter of motivation
2. Letter of approval of participation from home institution (department / faculty)
3. Curriculum vitae (including photo)
4. Official academic transcript from home institution
5. Portfolio with work samples (eight to ten A4 clear and legible copies of a range of recent design work, including drawings, images and photos of built models)

The workshop is part of a collaboration between the Universität Stuttgart and respective Australian universities. The credits for the workshop can be applied to home university studies. A maximum of 15 ECTS-credits (European Credit Transfer and Accumulation System) is possible.



Universität Stuttgart

ibbte

Institut für Baustofflehre, Bauphysik,
Technischen Ausbau und Entwerfen



Overview of common thermal insulation materials

Stuttgart, capital of the state of Baden-Württemberg in the south of Germany, world-famous through companies such as Bosch, Daimler-Benz and Porsche is just as much a center for architecture: There are not only spectacular, modern buildings like the Mercedes-Benz Museum, the new Porsche Museum or the Residence R128, but also the world-renowned Weißenhofsiedlung with buildings from Le Corbusier, Hans Scharoun and Mies van der Rohe. There are also the Stuttgart television tower from Fritz Leonhard and Frei Otto's former Institute for Lightweight Structures, now directed by Werner Sobek.



stuttgart design workshop | 2011

10. January until 18. February 2011

Organisation:

Universität Stuttgart

IA - International Affairs

Director: Dr. Heiko Richter

Coordination IA

Katja Schuster

Contextual concept and realisation:

Institut für Baustofflehre, Bauphysik,

Technischen Ausbau und Entwerfen

Director: Professor Peter Schürmann

Coordination IBBTE

Cecilia Perez

Coordination and Instruction of workshop:

Professor Peter Schürmann, Architect

Cecilia Perez, Architect

with

Armin Kammer, Architect and Energy Consultant

Thomas Löffler, Architect

Professor Jürgen Schreiber, Engineer

Building Systems

Professor Dr.-Ing Hanno Ertel, Engineer

Building Physics and Room Acoustics

Universität Stuttgart

Fakultät 1
Architektur und Stadtplanung

Institut für Baustofflehre, Bauphysik
Technischen Ausbau und Entwerfen

Director:
Prof. Dipl.-Ing. Peter Schürmann

Prof. Dr.-Ing. Hanno Ertel
Prof. Dipl.-Ing. Jürgen Schreiber
Dipl.-Ing. Armin Kammer

Keplerstrasse 11
70174 Stuttgart

Telefon: +49 (0) 711 685-83230
Telefax: +49 (0) 711 685-82335

institut@ibbte.uni-stuttgart.de

www.ibbte.de

in collaboration with:

IA - International Affairs

Director
Dr. Heiko Richter

Pfaffenwaldring 60
70569 Stuttgart

Telefon: +49 (0) 711 685-68553
Telefax: +49 (0) 711 685-58553

schuster@ia.uni-stuttgart.de

<http://www.ia.uni-stuttgart.de>



Universität Stuttgart

ibbte

Institut für Baustofflehre, Bauphysik,
Technischen Ausbau und Entwerfen