

15th July 2010, TU-Berlin: International Jury announces the best concepts of the Longlife Design Class in the summer semester 2010

Fresh – Innovative – Inspirational Ideas for a sustainable, energy and cost efficient Prototype Residential Building in Baltic Sea Region



1st price: Daniel Mera Luna, Camilla Sacerdoti, Samuel Poubeau, Students from Ecuador, France and Italy

Twenty-two students worked in seven groups for four month and designed a sustainable, energy and cost efficient Prototype Residential Building. All seven groups presented their results - plans, papers, models - on 15 July 2010. More than 50 participants, guests and Longlife project partners attended this event. All of them were very impressed about the variety of strategies, the contributed ideas, the varying concepts and the strong engagement of all students. The goal of the TU Berlin Longlife design class was designing a sustainable and energy efficient prototype of multi-story residential building.

The new experience was that the students designed not only the architecture of a building but

rather a complete concept. They used the new approach of integrated planning. The design process included environmental, ecological, resource saving and cost efficiency aspects. Also the development of an energy concept, energy requirements, and proper materials and optimized construction system were required, while still designing based on the principals of modern and timeless aesthetics.

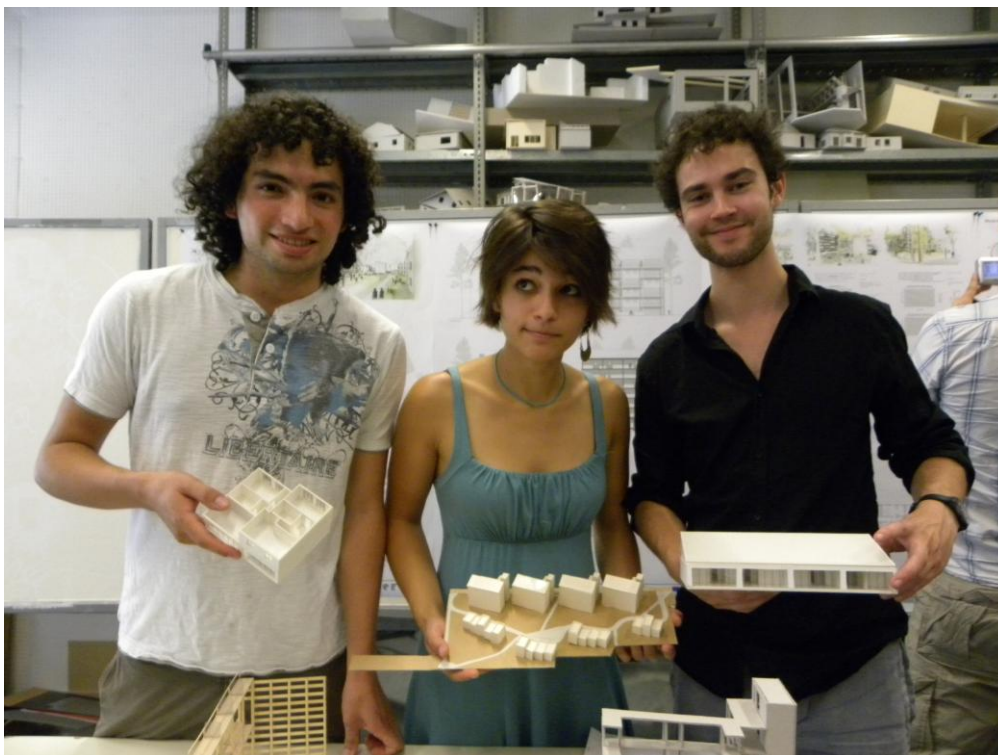
The winner groups are

1st Price: Daniel Mera Luna, Camilla Sacerdoti, Samuel Poubeau

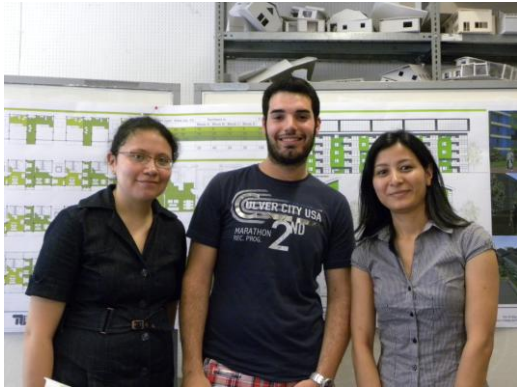
2nd Price: Martha Zarco, Josep Soler, Shritu Shrestha

3rd Price: Callum Lewis-Laverty, Anders Grevi Norman, Heidrun Laugsand

The group that won the first Price was an international team. The members come from different countries with different culture background and different climate conditions. Their concept was in accordance with performance requirements and had a very good structure. The highlights of their work that makes it special were that they found innovative solutions for the three aspects of sustainability - the ecology, the economy and the community. They presented a rich urban concept respecting the neighbourhood area, spatial hierarchy in different levels of project, precise analysis of project requirements, highly flexibility applied to the site, plans and structure of the buildings and finally the consideration of sustainability in cost-benefit in the life cycle of the building.



1st price: Daniel Mera Luna, Camilla Sacerdoti, Samuel Poubeau, Students from Ecuador, France and Italy



2nd Price: Martha Zarco, Josep Soler, Shritu Shrestha (Students from Spain and Nepal)



3rd Price: Callum Lewis-Laverty, Anders Grivi Norman, Heidrun Laugsand (Students from Scotland and Norway)

An international jury from Germany, Lithuania and Russia evaluated the concepts for a sustainable, energy and cost efficient Prototype Residential Building. The members of the jury were:

- Alexy Polyakov**, Hypothecary Agency of Leningrad Region, (IPOTEKA), Chairman, Russia
- Professor Josifas Parasonis**, Vilnius Gediminas Technical University, Head of Department of Architectural Engineering, Lithuania
- Kirstin Gebauer**, ProPotsdam GmbH, Germany
- Ralf Protz**, Center of Competence for Major Housing Berlin, Germany
- Nicholas Deinhardt**, Berlin University of Technology - Institute of Architecture, Germany
- Effatosadat Shahriari**, Berlin University of Technology - Institute of Architecture, Iran
- Sven Boog**, Berlin University of Technology - Institute of Architecture, Germany



Jury discussion

The winner group is invited to the next Longlife workshop in December 2010, which will be held again in Roskilde, Denmark. The students will present their work and attend the design process for the Longlife prototype.

All results of the Longlife design will be collected in documentation and published on the Longlife webpage.

True winners will also be the future residents of Longlife Prototype residential buildings in Denmark, Germany, Lithuania, Poland and Russia.

Longlife - Sustainable, energy efficient and resource saving residential buildings considering unified procedures and new adapted technologies - is a project in the Baltic Sea Region Programme 2007-2013 and part financed by the European Union. The involved countries are Denmark, Germany, Lithuania, Poland and Russia.

Longlife aims to optimize methods of construction, adapt and implement new technologies for building and harmonize building procedures between the countries. This will lead to a reduction of energy consumption during a building's life cycle.

In order to use the capacities of the project Longlife project partners decided in their workshop in Roskilde 2009 to hold design classes in the participating countries such as Lithuania, Denmark and Germany.

The design class at the TU Berlin was held in an international context. This allowed students from different countries with various educational backgrounds to work together. This led to a highly rich result.

Professor Dr.-Ing. Klaus Rückert, the Longlife Lead partner and head of the Chair Design and Structure TU Berlin provided the design class with a wide range of lectures held by well known experts. He was grateful and sent special thanks to

Prof. Dr.-Ing. E.h. Werner Sobek, Werner Sobek Stuttgart GmbH & Co. KG and Chairman of DGNB: "Sustainable Construction and certification aspects"

Dr. Jan Hennig, Gleiss Lutz; "Legal aspects"

Prof. Dr.-Ing. Christoph Nytsch-Geusen, Universität der Künste Berlin: "Simulation"

Dipl.-Ing. Architekt Clemens Deilmann, Leibniz-Institut für ökologische Raumentwicklung e.V. (IÖR): "Sustainability"

Dr. Hendrik Müller, Hochschule Wismar, "Building Life Cycle"

Dr. Simon Vidrih, Hottgenroth Software Verwaltung GmbH: "Software for energy efficient planning as a solution tool"

Dr. Klaus Kalberlah, EUROSUN Solartechnik AG: „EUROSUN PVT-Hybridsystem“

Dipl.-Ing. Ralf Protz, Kompetenzzentrum Großsiedlungen e.V.: "Sustainable housing from the user perspective" and excursion

Patrick Faika and Ingo Rausch, Vertrieb Wohnungsbau Ost, Stiebel Eltron GmbH & Co. KG: "Heat pump technology"

The students of design class had specific consultations each week with the research assistants **Effatosadat Shahriari, Sven Boog** and tutor **Ingo Nolte**, TU Berlin, tek.

The Company Pro Potsdam GmbH provided a construction site, which enabled the students to design under realistic conditions. The site is situated in Potsdam and covers a total area of 13.159 m².

We are very grateful to the Company Pro Potsdam GmbH, one of the Longlife project partners, that is very likely going to build the German prototype building:

“Pro Potsdam GmbH has expertise in the administration and redevelopment of residential areas. In the Longlife project, we will be sharing knowledge about practices and finding real solutions for residential buildings as regards energy efficiency and sustainability.”

Horst Müller-Zinsius, Managing Director, Pro Potsdam GmbH

More information and contact:

Dipl.-Ing. Maria-Ilona Kiefel, Longlife Communication Manager of the Lead partner
Mobile: +49 171 800 22 61

maria-ilona.kiefel@campus.tu-berlin.de
info@kiefelundpartner.de

On behalf of:
Prof. Dr.-Ing. Klaus Rückert
Lead partner project Longlife
Technische Universität Berlin, Sekretariat A16,
Straße des 17. Juni 152, 10623 Berlin, Germany

www.longlife-world.eu