

**Lara Slivnik**  
**AN OVERVIEW OF MUSHROOM STRUCTURES**  
**IN SLOVENE STRUCTURALISM**

**Third International Congress on Construction History,**  
**Brandenburg University of Technology, Cottbus, Germany,**  
**20th - 24th May 2009,**  
<http://www.ch2009.de/>

Mednarodni kongres prirejajo na tri leta in udeležijo se ga arhitekti, gradbeniki, umetnostni zgodovinarji in vsi tisti, ki se ukvarjajo z zgodovine gradnje od prvih človekovih začetkov do arhitekture moderne. Na kongresu je bilo predstavljenih šest uvodnih predavanj in preko 200 prispevkov. Referat o gobastih konstrukcijah v slovenskem strukturalizmu je bil predavan v sekciji "konstrukcije".

**Izvleček**

This paper is an overview of mushroom and umbrella structures in Slovenia. It starts with a brief introduction to the development of mushroom and umbrella structures. The main part of the paper describes five selected buildings in Slovenia which are all based upon the idea of a single central column supporting the roof. All of them were built between 1960 and 1971, a decade when Structuralism dominated Slovene architecture. The selection has been made according to their importance for Slovene architecture and therefore the analysis is made from the architectural point of view. At the end, various reasons for their sudden disappearance from Slovene architecture after 1970 are discussed.

*SLIVNIK, Lara. An overview of mushroom structures in Slovene structuralism. V: KURRER, Karl-Eugen (ur.), LORENZ, Werner (ur.), WETZK, Volker (ur.). Proceedings of the Third International Congress on Construction History, Brandenburg University of Technology Cottbus, Germany 20th - 24th May 2009. Vol.3. Cottbus: Chair of Construction History and Structural Preservation of the Brandenburg University of Technology, cop. 2009, str. 1339-1346, ilustr. [COBISS.SI-ID 2294148]*

**Martina Zbašnik-Senegačnik**  
**PASSIVE HOUSE IN SLOVENIA**

**1<sup>st</sup> Alps-Adria Conference on Passive Houses, Pecs,**  
**Madžarska,**  
**4.-5. september 2009**  
[http://www.matserv.pmmf.hu/passzivhaz/index\\_en.html](http://www.matserv.pmmf.hu/passzivhaz/index_en.html)

**Vabljen predavanje na mednarodni konferenci**

**Abstract**

The environmental attitude has grown also in Slovenia, although not as fast as Austria, Germany and Switzerland. There is a growing interest for ecological materials, for very

low energy houses and in last year also for the passive houses. Large shifts occurred in 2008 in the introduction of passive houses into Slovenia. These shifts were undoubtedly the result of all the activities that had been carried out in previous years. We can divide these activities into two areas: promotional activities (Articles in the popular and professional reviews, The monograph 'The Passive House', Presentations of the passive house, Construction fairs in Ljubljana and Gornja Radgona, Professional trainings and seminars, Production of an educational film on the construction of a passive house, Media support, Activities towards the construction of a trial settlement of passive houses in Slovenia, Saint-Gobain Isover student competition) and concrete measures to introduce energy-efficiency standards into buildings (Subsidies for the construction of energy-efficient houses, The Passive House Consortium, Education and training for the planning of passive house construction, Rules on the Efficient Use of Energy in Buildings). In the article the activities in last year will be described.

*Predavanje je kot članek objavljeno v: ZBAŠNIK-SENEGAČNIK, Martina. Passive house in Slovenia. V: 1st Alps-Adria Conference on Passive Houses, Pecs, 4-5 September 2009 : proceedings. Pecs: Alps-Adria Conference on Passive Houses, 2009, str. [1-6]. [COBISS.SI-ID 2324612]*

**Martina Zbašnik-Senegačnik**  
**HOW MUCH DOES THE PASSIVE HOUSE**  
**COST?**

**1<sup>st</sup> Alps-Adria Conference on Passive Houses, Pecs, Madžarska,**  
**4.-5. september 2009**  
[http://www.matserv.pmmf.hu/passzivhaz/index\\_en.html](http://www.matserv.pmmf.hu/passzivhaz/index_en.html)

**Abstract**

Lately, the term "passive house" has been gaining ground in Slovenia, representing the most favourable cost-benefit ratio – energy saving – to date. A passive house uses less than 15 kWh/(m<sup>2</sup>a) in heating energy. There still remains the conviction among laymen, as well as among experts, that passive houses are expensive. This paper describes a high-quality low-energy family house in the vicinity of Ljubljana and outlines a comparison of the actual cost of its construction and a cost estimate for the construction of a passive house.

The analysis of approximate costs of the construction of a passive house, therefore, shows that in Slovenia the price should not exceed the price of a high-quality, thoroughly designed and built low-energy house by more than 10 %.

*ZBAŠNIK-SENEGAČNIK, Martina. How much does the passive house cost?. V: 1st Alps-Adria Conference on Passive Houses, Pecs, 4-5 September 2009 : proceedings. Pecs: Alps-Adria Conference on Passive Houses, 2009, str. 1-6, ilustr. [COBISS.SI-ID 2324868]*