

Event:
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ENERGY in BUILDINGS – Northern Hellas 2019

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Thessaloniki, Hellas



#	<p>Dimitris Aravantinos professor at the Department of Civil Engineering of the School of Engineering in the Aristotle University of Thessaloniki</p>	
Title:	Professor Department of Civil Engineering, Aristotle University of Thessaloniki	
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Presentation title:	The influence of Planted Roofs to Buildings' Thermal Behaviour	
<p>The paper briefly presents the structure, the materials and the order of the layers in a planted roof, as well as the conditions for its construction, the issues to take special care of and the measures of protection against the risk of moisture problems' occurrence.</p> <p>Their contribution to the improvement of air quality, the reduction of noise pollution and the reduction of thermal loads due to solar radiation is briefly highlighted.</p> <p>The results of the research on planted rooms' thermal behavior are presented by comparing conventional and planted roofs with and without a thermal insulation layer, through the recording of the course of temperature from the interior to the external environment during both the winter and the summer period, based upon estimated heat and refrigerant loads.</p>		
CV:		
<p>Dimitris Aravantinos is a professor in the Laboratory of Building Construction and Building Physics of the Department of Civil Engineering, AUTH. He teaches the courses of "Building Construction" and "Energy Design of Buildings". His fields of interest include thermal insulation and waterproofing of structures and especially the treatment of moisture problems in new buildings as well as in old buildings and monuments.</p> <p>He has participated in many national and European projects in the fields of building physics and energy design of buildings. He also participated in Greek and international conferences with announcements, as well as with publications in valid magazines on issues related to his areas of activity.</p> <p>He was a member of the National Coordination Committee to update the national legislation on the energy performance of buildings set up by the Ministry of the Environment and Energy. He participated in the committees that drafted the Energy Efficiency Regulation in 2010 and the revised one in 2017, as well as in the Scientific Committees that drafted the energy inspectors training manuals. He was a member of the research team and the scientific responsible of the program to determine the key features of nearly zero-energy buildings.</p> <p>He has been collaborating since 1998 with the technical magazine "Building", for which he has written many articles, as well as 4 books on building construction, thermal insulation, waterproofing and energy behaviour of buildings.</p>		