

Event:
Date:
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ENERGY in BUILDINGS 2017
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#	<p>Lambros T. Doulos Physicist, PhD, MSc</p>	
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email:	<p>ldoulos@mail.ntua.gr, ldoulos@uth.gr</p>	
Presentation title:	<p>Harvesting daylight in a classroom, the case study of Leontios School</p>	
<p>The energy consumption for artificial lighting in school buildings is one of the main consumers of electricity during the year. In Greece where daylight is adequate during the year there is a missing opportunity for energy savings. Scope of this paper is to examine the lost opportunities for optimizing the lighting system combining with daylight harvesting techniques using photosensors. A case study of a classroom that utilizes photosensors is compared with an identical classroom that uses only artificial lighting. The energy savings in the lighting system are more than 56%. Considering near zero energy buildings the use of daylight controls should be obligatory in school buildings while their operation schedule in Greece is during daytime only.</p>		
CV:	<p>Lambros T. Doulos was born in Athens, Greece on September 19, 1975. He received the Dipl. in Physics from the University of Athens, Physics Department, in 1999, the MSc Dipl. in Environmental Physics from the University of Athens, Physics Department, in 2002 and the PhD Dipl. from the National Technical University of Athens in 2010. He is an expert in lighting design, rational use of energy in lighting systems, use of daylight in buildings, development of innovative photosensors, road and tunnel lighting measurements. He is a Post-Doctoral researcher at University of Thessaly (Department of Architecture, Volos) with subject "Zero Energy Lighting System for Schools". He works also as an Adjunct Professor in the MA program "Lighting Design" at Hellenic Open University where he teaches the course "Lighting Technology and connection with production" and at Lighting Laboratory (NTUA) as a Researcher. He is the writer of number of publications, and books dealing with lighting, lighting controls and energy saving. Several research projects have implemented by the researcher. He also offers consultancy services in lighting design and building's low energy techniques.</p> <p>The detailed CV could be found at this link: http://lighting.ece.ntua.gr/index.php?option=com_content&task=view&id=73 http://www.arch.uth.gr/en/staff/L_Doulos</p>	