

Event:  
Date:  
Place:

**ENERGY in BUILDINGS 2018**  
Saturday November 3, 2018  
Athens, Hellas



<b>EinB109</b>	<b>Olympia Ardavani</b> <ul style="list-style-type: none"><li>▪ Architect Engineer (MArch, NTUA)</li><li>▪ Environmental Engineer (MEnvSci, HOU)</li><li>▪ Lighting Designer, (Diploma, SBU-UCL)</li><li>▪ PHD candidate (HOU)</li></ul>	
Title:	Project Manager of Atlantis Design Studio	
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Presentation title:	<b>Simulation of Daylight Penetration through Roof Openings with varying Geometrical Data Relations, in a Small Industrial Building in Greece: Evaluation of Photometric Results (Poster 1 &amp;2)</b>	
<p>The aim of this thesis is to present the use, the technology and the perspectives of the roof openings of the buildings as Daylight entries, in addition to the side effects, which derive under certain climatic conditions. It also refers to the relevant researches and solutions, which have been developed in order to face the above difficulties. Within a case study, of an industrial building in Greece, day lit by side windows, a new top lit scenario is presented, which suggests a total replacement of the existing windows by roof openings, with their geometry varying in parametrical way –according to the bibliographic review. The new photometric data is considered in a simulation process and the results are compared, aiming for the detection of the more effective daylight schema. However, the evaluation made with the above simulation is indicative and mainly concerns the application of theoretical rules on the appropriate design of natural light for a craft building and not a final suggestion of substitution of the lateral openings from corresponding roof.</p>		

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**Atlantis Design**

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## **CURICULLUM VITAE**

**NAME:** Olympia Ardavani

### **Studies, Degrees, Thesis:**

- *Architect Engineer (March, NTUA), 1980 (d. 8, 58).*
- *Environmental Design of Cities and Buildings (MEnvSci, HOU), 2009 (d. 9, 2).*
- *Lighting Design, (Diploma, SBU-UCL, London), 2000*
- *Postgraduate studies in Lighting Design (candidate for Mart, School of Multimedia Applications, HOU)*
- *PHD candidate (School of Applied Arts, HOU)*
- *Energy inspector certification, (TEE, 2015)*
- *Continuous training through seminars and workshops (NTUA, University of Athens, Private Institutions), on technological developments and software design in drawing, parametrical drawing and lighting design*
- *Training on Stage lighting (IEK Delta, Athens)2010*

### **Subject of degree lecture, NTUA:**

« Traditional Arab settlements in Tunisia: Case study, Medina Tunis», (The survey was conducted during training stage in Société Nationale Immobiliere de Tunis, through student exchange program, IAESTE) (exc.)

### **Subject of thesis, NTUA:**

«Minoan Studies Centre in Akrotiri, Santorini: Proposals to meet the energy needs of buildings with passive solar systems and wind energy», (subject of an international student competition) (exc.)

### **Subject of thesis, HOU:**

«Natural lighting through the roof of buildings: Case study of a craft building in Athenian suburb», (exc.)

### **Subject of ongoing PHD, HOU:**

«The use of bioluminescence, as a proposal to save energy in Greek suburban areas»

**Language knowledge:** Greek (exc.), English (v.g), French (g.), German (m.)

### **Professional experience:**

#### • 1976-1986

a. Free lancer and partner in private architectural offices and companies, focusing in: urban and summer housing, landscaping, religious settlements, tourist facilities, ethnic restaurants (Egypt)

b. Processing editing and drawing up tables and drawings in the textbook «Urban Design», author Professor A. Aravantinos, 1984

c. Member of the Polytechnic Committee for the population protection from Earthquakes and other Natural Disasters, (1982-1985)

#### • 1986-2018

Establishment of the architectural studio «Atlantis Design», where a large number of private architectural projects have been carried out, as well as landscaping, lighting design and interior decoration, (offices, luxury residences, conservatories, embassies, shops and exhibition stands) in Greece, Riyadh, Tunis and London, as well as renovation of preserved buildings in Athens and Santorini.

#### • Other activities 1980-2018

Participation in many conferences, seminars and workshops on architecture, sustainability, lighting design, computational design. Teaching in private training center (IEK Praxis) lessons of history of art and architecture and constructive materials as well.