

Konstantina Vasilakopoulou

Architect, MSc.

Curriculum Vitae

Contact details

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Education & Training

Technical University Of Crete, Environmental Engineering Department (April 2011 onwards): PhD Thesis.

PhD Thesis subject: "Smart natural lighting systems. Development/optimization of light pipes with integrated low energy consumption artificial lighting, managed by smart controls"

(Tutor: As. Professor Dionysia Kolokotsa)

University College London, Bartlett School of Architecture, (September 2005 – September 2006): MSc in Light & Lighting.

Final Research Project: "The effect of lighting and colour on the wellbeing and mood of the users of psychiatric clinics: Case study of two Community Homes"

Final Design Project: "Skylight design for the Vantaa Helsinki airport, Finland"

(Tutor: Prof. Kevin Mansfield)

University of Patras, Polytechnic School, Department of Architecture (September 1999 – February 2005): Diploma in Architecture.

Final Research Project: "Contemporary church architecture in the Orthodox world"

(Tutor: Prof. Konstantinos Xanthopoulos)

Final Design Project: "Public space and community services in Aegion"

(Tutor: Prof. George Panetsos)

Scientific Interests

Lighting: Lighting design, energy efficiency in lighting, integration of natural and artificial lighting, lighting comfort, etc.

Design of exterior spaces: Bioclimatic design of urban areas, shading of exterior spaces, the impact of greenery, materials and thermal sinks, thermal comfort in exterior spaces, etc.

Working Experience

September 2006 onwards: Freelance Architect and Lighting designer. Main occupation: natural and artificial lighting projects, energy savings in lighting design.

July 2013-onwards: National & Kapodistrian University of Athens, Physics Department, Building Physics Sector: researcher. Areas of research: lighting design, energy efficiency in lighting, integration of natural and artificial lighting, lighting comfort, Bioclimatic design of urban areas, etc

July 2011-July 2013: Centre for Renewable Energy Sources (CRES), Greece. Management of programs of the National Strategic Reference Framework (NSRF), Operational Program "Environment - Sustainable Development".

January 2011- June 2011: Ministry of Environment, Energy & Climate Change.

January 2007- January 2011: National & Kapodistrian University of Athens, Physics Department, Building Physics Sector: researcher. Areas of research: lighting design, energy efficiency in lighting, integration of natural and artificial lighting, lighting comfort, etc.

Teaching Experience

2013 - onwards: Tutor of Lighting courses: E-learning expertise program "Sustainable energy design in the built environment", National Kapodistrian University of Athens

2008-2011: Supportive tutoring of students' diploma works related to natural and artificial building lighting, Physics Dept., University of Athens.

2008 - Participation with lectures and tutoring in the EUREC European Master in Renewable Energy.

Publications (books)

K. Vasilakopoulou, D. Kolokotsa, M. Santamouris: "**The contribution of bioclimatic architecture in the improvement of outdoor urban spaces**" (under publication)

K. Vasilakopoulou, D. Kolokotsa, M. Santamouris: Book: "Cities for Smart Environmental and Energy Futures", Chapter: "**Cities for Smart Environmental and Energy Futures - Urban heat island mitigation techniques for sustainable cities**", Editors: S. Rassaia, P. M. Pardalos, Springer, 2014

Publications (scientific journals)

Santamouris, M., Gaitani, N., Spanou, A., Saliari, M., Giannopoulou, K., Vasilakopoulou, K., Kardomateas, T.: "**Using cool paving materials to improve microclimate of urban areas - Design realization and results of the Flisvos project**", Building and Environment, Volume 53, July 2012

Santamouris, M., Xirafi, F., Gaitani, N., Spanou, A., Saliari, M., Vasilakopoulou, K.: "**Improving the microclimate in a dense urban area using**

experimental and theoretical techniques - The case of Marousi, Athens", International Journal of Ventilation, Volume 11, Issue 1, June 2012

N. Gaitani, A. Spanou, M. Saliari, A. Synnefa, , K. Vassilakopoulou K. Papadopoulou K. Pavlou, M. Santamouris, M. Papaioannou, A. Lagoudaki: **"Improving the Microclimate in Urban Areas. A Case Study in the Centre of Athens"**, Building Services Engineering Research and Technology, Volume 32, Issue 1, February 2011

K. Pavlou, K. Vassilakopoulou, M. Santamouris: **"The Impact of Several Construction Elements on the Thermal Performance of Solar Chimneys"**, The International Journal of Ventilation, Special Edition- The Third International Workshop on Natural Ventilation, Tokyo Japan, March 2009, Volume 8, N.3, 2009.

Publications (conferences)

K. Vasilakopoulou, A. Synnefa, D. Kolokotsa, T. Karlessi, M. Santamouris: **"Development of an algorithm for predicting the performance and optimizing the design of an energy efficient lighting system"**, AIVC 2013 Conference, Athens, 9/2013

A. Spanou, K. Vassilakopoulou, M. Santamouris: **"Energy performance and lighting design of an historic building in Greece"**, Palenc Conference, Rhodes, 9/2010

S. Pieri, P. Pieris, K. Sfakianaki, K. Vasilakopoulou, M. Santamouris: **"Prototype Zero Energy Tourist Settlement"**, Palenc Conference, Rhodes, 9/2010

K. Sfakianaki, K. Vassilakopoulou, M.N. Assimakopoulos, P. Doukas, K. Pavlou, N. Gaitani, M. Santamouris: **"Energy and environmental rehabilitation of a listed neoclassic building in Athens, Greece"** Proc, 2nd Palenc Conference and 28th AIVC Conference, 27-29/9/2007.

M. Santamouris, K. Kapsis, D. Korres, I. Livada and K. Vassilakopoulou: **"On the Relation Between Energy and Social Characteristics of the Residential Sector"**, Proc 2nd EPEQB Conference, Milos, 2007.

Reviewer of scientific articles

Advances in Building Energy Research, Taylor & Francis

International Journal of Low-Carbon Technologies, Oxford Journals

Energy and Buildings, Elsevier

Architectural Competitions

September 2012 – European Competition: "Rethink Athens: Towards a new city center" (Environmental and energy planning for the proposal of Exs architects – Karanastasi E., griik architects –Kiriakidi A., Collaborators: Kritikou E., Iglezos M., Vlahiotis S., Ntzoufras S., Skalogianni K., Telo M., Grivas K., welovethecity-An. Geerse, L+DG-Gravanis T.)

June 2010 – National competition: “Architectural design of Nikis Square in the municipality of Kozani” (Artificial lighting design for the participation of the architects: A. Matrakidou, G. Foukas)

May 2010 – International competition: “Architectural design of a roundabout in the municipality of Paphos, Cyprus” (Artificial lighting design for the participation of the architectural office: K. Scroubelos & Associates Architects)

September 2009 - International competition: “2009 OPEN ARCHITECTURE CHALLENGE, BETTER CLASSROOM DESIGN”, Architecture for Humanity (Participation with M. Mavroudi, V. Neokosmou)

June 2009 – International competition: “URBAN DESIGN & HARMONY OF RAMSES SQUARE CAIRO EGYPT”, (Artificial lighting design for the participation of the architects: S. Mavrommati, K. Moraiti, A. Moraitou, G. Goumopoulou)

June 2007 – Competition for the renovation of the “Greek Company for the Environment and Culture” in Plaka, Athens. (Artificial lighting design for the participation of the architect E. Choriti)

Personal Skills & Competences

Professional Skills

6/2005: Member of the Technical Chamber of Greece

1/2011: Professional engineer license holder (license for architectural and environmental studies of public projects).

Computer Skills

Autocad/ 3Ds Studio Max/ Microsoft Office/ Adobe Photoshop/ Ecotect/ Relux/ Dialux / IES VE pro / Radiance / Photopia

Foreign Languages

English: Proficient user

French: Basic user