

**GIOULI MICHALAKAKOU**  
**CURRICULUM VITAE**

**Personal Information**

First Name : Giouli

Family Name: Michalakakou

Profession : Professor in Environmental Physics, Department of Mechanical Engineering & Aeronautics, University of Patras

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**University Studies**

Ph.D., Division of Applied Physics, Department of Physics, Faculty of Science, University of Athens

Master Diploma (Msc), Division of Applied Physics, Department of Physics, Faculty of Science, University of Athens

Diploma of Physics, Department of Physics, Faculty of Science , University of Athens

**Post Doctoral Research Grant**

- Marie Curie Fellowship, Category : 30 (Post-Doctoral research), Energy Research Group, School of Architecture, University College Dublin, Ireland, Contract No ERBCHBGCT 920156
- Marie Curie Fellowship, Category : 30 (Post-Doctoral research), Division of Environmental Physics, Department of Physics, Faculty of Science, University of Athens

**Dissertations**

1. "Modeling an earth-to-air heat exchangers system for space cooling", Ph.D. Dissertation, Department of Physics, University of Athens
2. "Heat flux calculations in the atmospheric boundary layer", Msc Degree Dissert., Department of Physics, University of Athens
3. "Fission of elementary particles", Diploma thesis, Department of Physics, University of Athens

**Research Activities**

- Physics of the urban environment
- Physics of the built environment and particularly on the following topics: Heat and mass transfer when passive cooling systems are used, Bioclimatic and Energy conscious design, Indoor Air Quality, Renewable Energy Sources, Passive Cooling and Heating Systems
- Atmospheric Physics and Meteorology

**Professional Experience:**

1992-1995: Research Associate participating in several European Union research projects on the subject of Applications of Solar Energy in the Built Environment. Laboratory of Environmental Physics, Department of Physics, University of Athens, Greece.

1995-1997 : Post Doctoral Marie Curie Fellow on a joint appointment of the School of Architecture and the Environmental Institute, University College Dublin, Dublin, Ireland.  
1998-1999: Post Doctoral Marie Curie Fellow (Return Grant), Laboratory of Environmental Physics, Department of Physics, University of Athens, Greece  
2000-2003: Research Associate Research Associate participating in several European Union research projects on the subject of Applications of Solar Energy in the Built Environment. Laboratory of Environmental Physics, Department of Physics, University of Athens, Greece.  
2004-2008 : Associate Professor on Environmental Physics, Department of Environmental & Natural Resources Management, University of Patras, Agrinio, Greece.  
2008-Today : Professor on Environmental Physics, Department of Environmental & Natural Resources Management, University of Patras, Agrinio, Greece.

### **Teaching Experience**

2004- today : Lectures and Laboratories in an extensive number of subjects such as Meteorology, Environmental Physics, Bioclimatic Architecture, Renewable Energy, Physics, Department of Environmental and Natural Resources Management, School of Engineering, University of Patras.

1997-1998 : Lectures on the subject of "Energy Conscious Design in Buildings", School of Architecture, University College Dublin, Ireland

1999-2004: Lectures (and Laboratories) on the subject "Atmospheric Physics" for the 3rd year students, Department of Physics, University of Athens, Greece

Moreover,;

2005-2015: Supervisor of 5 awarded Ph.D. students on the critical subject of Energy Conscious Design in Buildings and Buildings' Physics. Department of Environmental and Natural Resources, Management, School of Engineering, University of Patras, Greece

2013-today: Supervisor of 7 Ph.D. students, the three of them in the final stage of writing their Dissertation. Department of Environmental and Natural Resources Management, School of Engineering, University of Patras, Greece

2004-today: Supervisor of more than 20 Master Dissertations. Department of Environmental and Natural Resources Management, School of Engineering, University of Patras, Greece

2004-today : Supervisor of more than 100 Diploma Dissertations. Department of Environmental and Natural Resources Management, School of Engineering, University of Patras, Greece

### **General Research Profile**

G. Mihalakakou is Professor on the Environmental Physics in the above mentioned Department. Prof. Mihalakakou has extensive research work on the subject of Physics of Urban Environment and Urban Heat Island effect, Physics of the built environment, (particularly in heat and mass transfer when passive cooling systems are used, in bioclimatic and energy conscious design and in indoor air quality), in renewable energy sources, and in atmospheric physics. She is reviewer in International Journals such as Solar Energy Journal, Energy-the International Journal, Energy and Building, Journal of Geophysical Research and Journal of Applied Methodology. Moreover, she is expert in neural networks and fuzzy logic. She has joined 25 projects till now and in 12 was co-ordinator. Since 2004 she created the Laboratory of Environmental Physics in the Department of Environmental and Natural

Resources Management where she has her own research group. The research activities of the above mentioned Laboratory are mainly focused on Buildings' Physics, Energy Conservation and Efficiency in Buildings, Renewable Energy Sources, Indoor Air Quality, Urban Climate and microclimate, Atmospheric Physics and Meteorology. She has published more than 70 articles in International Scientific Journals, more than 6000 citations and h-index 44.

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