

**Name**

Dimitrios Kaliakatsos

Role

Associate Professor

Short CV

Born in Arta (Greece) on 10.07.1957, was graduated in Engineering of Industrial Technology (Mechanical Engineering) at the University of Calabria (Italy).

From 1.02.1992 was Researcher of Technical Physics at the Engineering Faculty of University of Calabria and from January 2002 is Associate Professor of Environmental Technical Physics.

On February 3, 2014 (session 2012) has received the National Scientific Qualification for Full Professor in the Academic Field 09C2, Thermal Sciences, Energy Technology and Building Physics, through the evaluation carried out by a National Commission that certifies the scientific qualifications of the candidates. He is member of the Italian Association of Air Conditioning, Heating and Refrigeration (AICARR), for which he was delegate for the Region of Calabria and of the board of Public Works of the Region of Calabria and participates in the Technical and Administrative Committee as an expert member of Air Conditioning Plants. Actually is the Energy manager of the University of Calabria.

His activity is summarized in numerous scientific papers published on International and National journals or presented as a speaker at International and National Congresses.

Teaching Activities

Professor of the course of “Heating Plants and Energy Certification of Buildings”, Second Degree Course of Energetics Engineering.

Professor of the course of “Applied Acoustics and Lighting”, Second Degree Course of Energetics Engineering.

Selected Publications

D. KALIAKATSOS, G. MIRABELLI, T. PIZZUTI. Noise risk assessment in the workplace: The case of a waste selection plant. *Noise and Vibration Worldwide*. ISSN: 0957-4565. 46 (5), pp. 8-17, (2015).

M. CUCUMO, V. FERRARO, D. KALIAKATSOS, M. MELE M. Analysis of the performances of a dish-Stirling system equipped with hot chamber. *International Journal of Heat and Technology*, Vol. 33, N° 4, pp. 125-136, DOI: 10.18280/ijht.330416 (2015).

M. CUCUMO, V. FERRARO, D. KALIAKATSOS, V. MARINELLI. Theoretical and experimental analysis of the performances of a heat sink with vertical orientation in natural convection, *International Journal of Energy and Environmental Engineering*, ISSN: 2008-9163, DOI 10.1007/s40095-014-0144-y (2014).

M. CUCUMO, V. FERRARO, D. KALIAKATSOS, V. MARINELLI. Simulation of the Thermal Behaviour of Buildings Equipped with Low-Emissivity Glazed Components. A Performance Analysis. *International Journal of Heat & Technology*, vol. 31, Issue 2, p. 111-118, ISSN: 0392-8764 (2013).

M. CUCUMO, V. FERRARO, D. KALIAKATSOS, V. MARINELLI. A Calculation Model for a Thermodynamic Analysis of Solar Plants with Parabolic Collectors Cooled by Air Evolving in an Open Joule-Brayton Cycle. INTERNATIONAL JOURNAL OF HEAT & TECHNOLOGY, vol. 31, Issue 2, p. 127-134, ISSN: 0392-8764 (2013).

Research Lines

- Passive cooling of buildings;
- Economic analysis of passive cooling of buildings;
- Hourly solar radiation on the vertical walls of the buildings: comparison between theoretical and experimental data;
- Application of Field Points for the a climate control system;
- Small boiler failures. Control and maintenance;
- Absorption Heat Pumps for air-conditioning in the hotel. Energy and economic assessments;
- Design and monitoring of an Exhibition box.
- Solar Cooling for an office building. Technical and economic assessments.
- Theoretical and experimental characterization of a heat sink in natural convection in vertical orientation.
- Air conditioning systems to geothermal heat pump.