

Name Natale Arcuri

Role Associate Professor

Short CV

Professor in Scientific Disciplinary Sector ING-IND/11 (Environmental Technical Physics), since 2008. Member of Department Council of DIMEG (July 2014 – today).

Energy Commission Member at University of Calabria (July 2014 - today).

He was the Science Project Manager of the University of Calabria for many international and national research projects and he is co-author of more than 100 publications.

Teaching Activities

Teacher "Technical Physics" at Construction/Architectural Engineering (A.A.2004/2005 - today)

Selected Publications

D. Mazzeo, G. Oliveti, N. Arcuri - INFLUENCE OF INTERNAL AND EXTERNAL BOUNDARY CONDITIONS ON THE DECREMENT FACTOR AND TIME LAG HEAT FLUX OF BUILDING WALLS IN STEADY PERIODIC REGIME, Applied Energy 164 (2016) 509-531 R. Bruno, G. Oliveti, N. Arcuri - AN ANALYTICAL MODEL FOR THE EVALUATION OF THE

CORRECTION FACTOR FW OF SOLAR GAINS THROUGH GLAZED SURFACES DEFINED IN EN ISO 13790 - Energy and Buildings 96 (2015) 1-9

N. Arcuri, R. Bruno, P. Bevilacqua - INFLUENCE OF THE OPTICAL AND GEOMETRICAL PROPERTIES OF INDOOR ENVIRONMENTS FOR THE THERMAL PERFORMANCES OF CHILLED CEILINGS - Energy and Buildings 2/2015; 88(2015) - pagg. 229-237

G. Oliveti, N. Arcuri, D. Mazzeo, M. De Simone - A NEW PARAMETER FOR THE DYNAMIC ANALYSIS OF BUILDING WALLS USING THE HARMONIC METHOD - International Journal of Thermal Sciences 01/2015; 88 (2015) pagg. 96-109

N. Arcuri, F. Reda, M. De Simone - ENERGY AND THERMO-FLUID-DYNAMICS EVALUATIONS OF PHOTOVOLTAIC PANELS COOLED BY WATER AND AIR - Solar Energy, Volume 105, 07/2014; July 2014, pagg. 147-156

Research Lines

- Thermal analysis of building components;
- Measurement of climatic variables;
- Behavior of occupants and energy consumption;

- Near Zero Energy Buildings;
- Innovative technologies for cooling buildings (Solar Cooling);
- Innovative photovoltaic system;
- Innovative walls with Phase Change Materials (PCM);
- High efficiency air conditioning systems.