

Event:
Date:
Place:

ENERGY in BUILDINGS - CYPRUS 2017

Thursday May 4, 2017
Limassol, Cyprus



#	Zacharias Hadjigeorgiou Mechanical Engineer	
Title:	Owner, Managing Director, Technical Manager of HeatFlow Group of Companies, Nicosia , Cyprus	
email:	Zacharias@heatflow.com.cy	•
Presentation title:	Electrostatic Filtering Solution – Energy Efficiency contribution – A Case study	
<p>All forced air HVAC equipment utilize filtration mechanical media which impose resistance to the air flow either higher or lower depending on the filtration grade or type of filter. As the filters become dirty the pressure loss is increasing and at the same time, the performance characteristics of the air conditioning equipment are changing negatively while the energy consumption is increasing. The presentation would present the mechanical & the electrostatic filtration technologies and it will try to reveal the advantages of utilizing the electrostatic filters. At the end, a techno-economic study of replacing the bag filters in an existing project with the electrostatic ones will be presented to reveal the energy savings which are paying off the investment in a quite short time whilst same time the filtration efficiency is increased and the maintenance cost is reduced. Also, the environment is benefited from the avoidance of energy spoilage both from reduced running expenses and the energy needed for the proper disposal of mechanical filters.</p>		

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CV:

Zacharias Hadjigeorgiou was born in 1962 at Strongylos - Famagusta. As a result of the Turkish Invasion, today, he resides in Strovolos, Cyprus.

He studied Mechanical Engineering at Higher Technical Institute of Cyprus and at Pennsylvania State University in the USA where he earned a BSc degree 1983. In 2008, he earned a Post graduate Diploma in Project Management from Henley College of UK.

We worked for a contracting firm for a few years as project engineer in mechanical contracting projects. Since 1989, he maintains in partnership his own companies; namely HeatFlow Group (www.heatflow.com.cy), with all firms active in the field of HVAC mechanical engineering contracting, trading of HVAC machinery and the supply of support & maintenance of HVAC systems and equipment. He is licensed Engineer, member of the Scientific Technical Chamber of Cyprus. Apart from being member of the board and managing director, his position in the Heatflow Group is that of the Technical Manager.

He is demonstrating particular interest in the energy saving technologies and he has attained numerous relevant conferences, presentations and seminars in Cyprus and abroad. He is leader in introducing into the Cyprus market the solar cooling applications, the thermal storage with PCMs, the vertical geothermal installations and the use of well and sea water in building highly energy efficient HVAC plants.

He has been a founding and executive member of the Round table-8 Social Club and he has been past Chairman of the Mechanical Contractors Association of Cyprus for a number of consecutive terms. Today, he is the Secretary to the council of the Mechanical & Electrical Contractors Association of Cyprus. Also, he is a member of the Advisory Board of the Center for European and International Affairs of the University of Nicosia and since 2014 serves the center from the position of the Secretary to the Chairman.

He is an ASHRAE member and he has been a founding member and the President elect of the Cyprus ASHRAE section and since the advancement of the section into a chapter in late February 2017, he is the president of ASHRAE Cyprus Chapter.