

Università degli Studi di Napoli Federico II



Scuola Politecnica e
delle Scienze di Base



Dipartimento di Ingegneria Industriale

Invited Lecture

Aspects and expectations for solar energy application in 21st century

Prof. Yiannis Tripanagnostopoulos

Thursday, April 28th 2016, 12:30 – 14:00 am

Biblioteca Storica, 2nd floor, P.le Tecchio 80, 80125-Naples

Outline

The lecture includes aspects for the global energy and environmental problems, the availability of fossil fuels for the next years and the potential of renewable energies. In particular, the Building Integrated PhotoVoltaic (BIPV), PhotoVoltaic/Thermal (BIPV/T) collectors and the Building Integrated Solar Thermal Systems (BISTS) are analysed, also considering their application in existing and future buildings. In addition, details about the main solar energy systems that have been developed in the Solar Energy Laboratory at the University of Patras and the results of the carried out experimental campaigns are briefly described. Finally, some suggestions to improve public sensitivity for the sustainability, using innovative solutions with photovoltaics and wind turbines, will be provided.



Born in Piraeus, Greece in 1950. Professor of Solar Energy in Physics Dept. and Director of the Environmental Sciences Dept. for post-graduate studies, both at the University of Patras. His research work is mainly in the field of Solar Energy Systems, as thermal collectors, photovoltaics and hybrid PV/T systems. He has collaboration with Universities and Research Centers in Europe and has performed a considerable number of National and EC funded projects. He has more than 200 publications in International Journals (h-index = 19) and Conference Proceedings, being also reviewer for scientific articles. He has been international examiner for PhD Thesis and has given courses to European post-graduate students on solar energy systems. He is member of Scientific Societies and has participated to the IEA Task35 for PV/T collectors, to the ESTTP for solar thermal collectors, to the COST Action TU-1205 for Building Integrated Solar Thermal Systems. In 2015 he was elected as member of the Academy of Science and Arts of Republic of SRPSKA.