

# **Prof. IOANNIS RAMPIAS**

## **CURRICULUM VITAE**

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### **Studies**

He studied at the University College of Cardiff in U. K., from where he received the degree of B.Sc. (Hon.) in Electrical - Electronic Engineering in 1979 and the degree of M.Sc. in Electrical - Electromagnetic of Engineering in 1981. He worked out his Doctoral thesis on "Power losses in amorphous ribbon materials – The effect of surface roughness on the power loss and harmonics content of flux density of amorphous ribbon materials" at Wolfson Centre for Magnetics Technology (UCC) in 1985. From 1983 until 1985 he worked as Research Engineer in the Industrial Centre of the University College of Cardiff (CUIC)

From 1986 until September 2018 he is Professor in the Department of Energy Technology Engineering at T.E.I. of Athens. He has served as Head and Assistant Head of the Department. He has been associated with teaching Materials for Electrical Engineers, Measurement Systems and Analog & Digital Systems.

Since September 2019 he is Professor in the Department of Electrical and Electronic Engineering at the University of West Attica, teaching Materials Technology and Electrical Measurements.

He has been lecturing, in many Western, Eastern European and Asian countries, on subjects related to Energy Management and Energy Efficient Technologies on seminars for Engineers from different industrial sectors under the framework of various EU Programmes.

Prof. Rampias had worked for two years as Head of Maintenance and Engineering Department of a large Deep Refrigeration Plant in Athens. Since 1993 he is working as Senior Energy Expert in various European and Greek Consulting Companies in a large number of Technical Assistance Projects on Energy Management, Energy Efficiency and Sustainable Energy Policy financed by EU, EBRD and World Bank.

Following his research work in the Industrial Centre of the University College of Cardiff (CUIC), he continues his research interest in innovative electric drive systems in cooperation with the Research Team of the Department of Electric Equipment, Technologies and Mechanics of the State Technical University of Tashkent (TSTU).

He is the author of several scientific articles in international magazines on "Amorphous Metal Alloys & Power Losses". As a result of joint research with TSTU, implemented during 2009-2010 he published a book on "Energy Saving Solid State Drives of Asynchronous Motors for Technological Machines and Installations" (ISBN 978-960-93-3063-3, 60 pp., Athens, 2011). He has also presented articles on subjects related to "High Efficiency Electric Motors", "VSDs" and "High Efficiency Distribution Transformers" in various workshops under Thermie Programme. His latest research activities involve use of Energy Information in Industry and Energy Efficiency Indicators in Policy Process.

### **Participation in EU Technical Assistance Projects (indicative list):**

\* "Provision of Advice and Assistance to Uzbekistan in the Development and Implementation of an Integrated Energy Saving Strategy", TA-CIS/92/EUZ030/E030, 1993-1995.

\* "EU Energy Centre for North West Russia - Renewal of the St. Petersburg Energy Centre", Tacis ERUS 9310, 1997-1998.

\* "Technical Assistance to the EU-China Liaoning Integrated Environmental Programme (LIEP) Lot E: Energy Management", 1999-2004.

\* "Industrial Energy Audits and Training Programme" and "Training Programme for Industrial Energy Management Systems", Serbian Energy Efficiency Agency, Projects funded by EAR, 2003-2005.

\* "Improvement of employability of young Palestinian refugees in Lebanon", MED/2005/105-179, 2005-2007.

\* "Creation of new jobs and improvement of living conditions through the establishment of a rural cooperative and the supply of renewable energy ", TACIS/2009/169-419, 2009-2011

\* "Strengthening Quality Infrastructure in Turkey", EuropeAid/126728/D/SER/TR, 2012.

\* "Short term high quality studies to support activities under the Eastern Partnership", Europe Aid/ 132574/C/ SER/Multi, 2014 - 2015.

### **List of main publications:**

- \* I. Rampias and K.J. Overshott, I. Aboalkaz, "The effect of annealing and surface roughness in the flux harmonic content (domain wall motion) of amorphous ribbons", IEEE Trans. Mag., Vol. MAG-19, No 5, Sept. 1983.
- \* I. Rampias and K.J. Overshott, "The effect of annealing and surface roughness on the Power Loss of amorphous ribbons", Journal of Mag. and Mag. Matl., Vol. 41, 1984.
- \* I. Rampias and K.J. Overshott, "Preparation, power loss and domain structure of electro-polished amorphous ribbons", Journal of Mag. and Mag. Matl., Vol. 41, 1984.
- \* D. Karolidis, A. Moronis, P. Prentakis, J. Rampias and M. Samarakou, "E-Study: A Learning Environment", Proceedings of the 2005 WSEAS International Conference on Engineering Education, Athens (Greece), 8 -10 July 2005-10 July 2005, p. 309-314.
- \* Prof. Ioannis Rampias and Prof. Khasimov A. A., "Energy and environmental impacts from an extensive use of VSD's in Uzbek industry", Euro-Asian Journal of sustainable energy development policy, Athens (Greece), 2009, p. 55-58.

### **Presentations in conferences/workshops:**

- \* Dr. Ioannis Rampias, "Variable Speed Drives and Potential Energy Savings in Typical Applications", Thermie Workshop on "Rational Use of Energy Technologies in the Chemical Industry", Brussels 4th November 1994.
- \* Dr. Ioannis Rampias, "Energy Saving through Transformer Losses Optimization", Thermie Workshop on "Technological advances towards low loss power distribution transformers", Bratislava 11th May 1995.
- \* Dr. Ioannis Rampias, "EU Market Study - Potential Energy Efficiency Improvements in Rotating Machinery" and "Variable Speed Drives and Potential Energy Savings in typical Applications", Thermie Workshop on Energy Efficient Motors and Drives, Moscow June 1995.
- \* Dr. Ioannis Rampias, "Energy Saving Potential through the use of VSDs", Thermie Seminar on "Efficient Motors and Drives", Budapest 28th October 1999.
- \* Prof. Ioannis Rampias, "Horizontal Energy Efficient Technologies in EU Industry", Scientific Conference on "Experience from the Implementation of Energy Efficiency Technologies" in TSTU, Uzbekistan 8th April 2010.
- \* Prof. Ioannis Rampias, "Brief Overview of European Innovation Policy", International Scientific Practical Conference on "Problems of Formation and Application of Innovation Technologies in the Conditions of Globalization" in TSTU, Uzbekistan 22nd - 24th September 2010.
- \* Prof. Rampias Ioannis and Ismailova Gulchehra Aripdjanovna, "The role of information and communication technology in the implementation of the energy conservation program of the Republic of Uzbekistan", 3rd International Scientific Conference of PROMITHEAS "Energy and Climate Change", 7th – 8th October 2010, Athens.
- \* Prof. Rampias Ioannis and Natalya Klimenko, "Experience of Renewable Energy Sources use in Uzbekistan", 3rd International Scientific Conference of PROMITHEAS "Energy and Climate Change", 7th – 8th October 2010, Athens.
- \* Przemyslaw Musialkowski and Prof. Ioannis Rampias, "High Quality Studies to Support the Activities under Eastern Partnership", 11th Meeting of the Eastern Partnership Platform III on Energy Security, 23rd June 2014, Brussels, Belgium