

The Electrical and Computer Engineering Program presents

Power Electronics for Renewable Sea Wave and Wind Energy

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Wednesday, 13 April 2011, 12.30–1.30 p.m.

Lecture Hall 144

light lunch will be served

In recent years, because of energy problems on almost whole world, power electronics and electric machines as well as renewable energy market has been intensively developed. This talk has an objective to combine and disseminate information on power electronics for wind and sea wave energy converters. Most important sea wave energy conversion prototypes will be shown. The generators and power electronics solutions for Power Take Off system will be presented on the example of Wave Dragon MW sea wave energy converter. The Wave Dragon MW captures power from the sea waves by means of low-head turbines and convert it into rotating mechanical power. However, energy conversion from sea waves to electrical form is not well identified and further research should be carried out. Additionally, specific problems of grid connected AC/DC/AC converters under grid voltage distortions (harmonics and voltage dips) will be discussed.



(M'89-SM'91-F'98) received the M.S., Ph.D. and Dr. Sci. degrees in electrical engineering from the Institute of Control and Industrial Electronics (ICIE), Warsaw University of Technology, Poland, in 1968, 1972, and 1981, respectively. From 1987 to 2008, he was Director of ICIE. Since 2003 he has been also Head of the Centre of Excellence on Power Electronics Intelligent Control for Energy Conservation – PELINCEC at ICIE. He is the author or co-author of over 350 technical papers and reports, as well as 13 books and textbooks. Prof. Kazmierkowski was the recipient of an Honorary Doctorate degree from Aalborg University in 2004 and from the Institut National Polytechnique de Toulouse, France in 2010. In 2005 he received the Dr.-Ing. Eugene Mittelmann Achievement Award by the IEEE Industrial Electronics Society and in 2007 SIEMENS Research Award in Poland. In 2007 he has been elected as Corresponding Member of Polish Academy of Science. He was the Editor-in-Chief of the IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS (2004-2006). Currently, he is Dean of Technical Science Department, Polish Academy of Science.

FOR MORE INFORMATION:

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