

# **SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA**

Uprzejmie zawiadamiamy, że w **PIĄTEK**

**28 września 2012 r., o godz. 10:00**

w sali 203 (bud. 1) odbędzie się seminarium, na którym

**Prof. Masahiro Yamaguchi**

*Tohoku University, Japonia*

wyłosi referat na temat:

## **Soft Magnetic Thin Film Applications at Radio Frequencies**

Development of new passive component technologies will enable a "More-than-Moore" paradigm leading to innovative application-specific compact systems. Ferromagnetic thin film materials, having high permeability at (and above) radio frequencies, are candidate materials for use in inductive passive components. This lecture begins with a review of new soft magnetic thin film applications at radio frequencies for future system-in-package (SiP) and system-on-chip (SoC) technologies. Discussions covered in this lecture include:

- (1) Development of international cross measurements of RF permeameters to evaluate RF permeability and related FMR profiles of magnetic films;
- (2) small signal lossy application to CMOS integrated electromagnetic noise suppressor;
- (3) small to medium signal applications as new metal/ferromagnetic multi-stack „conductors” to suppress skin effect utilizing negative permeability beyond the FMR frequency.

Serdecznie zapraszamy

Roman Puźniak  
Henryk Szymczak  
Andrzej Wiśniewski