

## Distinguished Educator Award:

### Andreas Cangellaris

"For outstanding contributions as a teacher, mentor, and role model for students in the microwave profession"



**Andreas Cangellaris** is M. E. Van Valkenburg Professor and Head in the Department of Electrical and Computer Engineering, at the University of Illinois, Urbana-Champaign. Professor Cangellaris received his Diploma in Electrical Engineering from the Aristotle University of Thessaloniki, Greece, in 1981, and the MS and PhD degrees in Electrical Engineering from the University of California, Berkeley, in 1983 and 1985. He has spent twenty five years in academia, first at the University of Arizona (1987-1997) and then at the University of Illinois (1997 – to date).

Professor Cangellaris' teaching and research interests include computational electromagnetics; CAD methodologies and tools for noise-aware design high-speed/high-frequency electronic components and systems; and modeling methodologies and tools for MEMS computer-aided design. To date, Prof. Cangellaris has supervised the education of more than forty MS students and twenty five PhD students. The majority of them have pursued careers in the semiconductor electronics industry and have populated several of the signal integrity groups in companies such as Intel, IBM, AMD, Motorola, Cisco, Hewlett-Packard, and NVIDIA. Several of the modeling methodologies and computer tools developed by Prof. Cangellaris and his graduate students for noise-aware analysis and design of high-speed/high-frequency electronics have been transferred to industry, and some of them have served as prototypes for the development of commercial-strength EDA tools.

Professor Cangellaris is the co-founder of the IEEE Conference on Electrical Performance of Electronic Packaging and Systems, which celebrated its twentieth anniversary in fall 2011. He is a Fellow of IEEE and serves as Editor of the IEEE Press Series on Electromagnetic Field Theory. During the period 2008-2010 he served as IEEE Microwave Theory & Techniques Distinguished Lecturer. Also, he currently serves as Chair of the IEEE MTT Technical Committee 15 on Microwave Field Theory.

A dedicated teacher, Prof. Cangellaris is a frequent member of the List of Teachers Ranked as Excellent by their Students at the University of Illinois published biannually. In 2001, he received the University of Illinois ECE Faculty Outstanding Teaching Award. For his contributions to engineering applications of electromagnetic field theory he received the Alexander von Humboldt Research Award from Germany in 2005. In 2011, he was recognized with the Army Research Laboratory Director's Coin for his contributions to the Multidisciplinary University Research Initiative on the Standoff Inverse Analysis and Manipulation of Electronic Systems.