It is a honor for Amrita School of Engineering, Bengaluru Campus to have Dr. Ralph M. Kennel to be a part of the IEEE PELS Distinguished Lecture Program (DLP). The brief discourse of talk through DLP is given in the pamphlet.

We encourage all the young Technologist, Researchers, Industry Professionals to get benefited through this program by registering at the earliest through the link given below.

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Dr. Ralph M. Kennel

ABSTRACT

This lecture presents an interesting approach for Power-Hardware-in-the-Loop (PHiL) testing of voltage source inverters for drive applications. For this purpose the inverter under test is not connected to a real machine, but to a second inverter instead, which behaves like an electrical machine. The power capability of the so-called “Virtual Machine” is increased by sequential switching of parallel connected standard inverters. The parallel connected inverters can be of the same type as the inverter under test. As the “Virtual Machine” can be scaled, there is no practical power limitation for drive inverter testing with respect to the product range of the manufacturer.

DISTINGUISHED LECTURE PROGRAM

"Hardware-in-the-Loop Systems with Power Electronics - a Powerful Simulation Tool"

20th January 2016
2:00- 4:00 PM.

Krishna Hall,
Amrita VishwaVidyapeetham
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Amrita Vishwa Vidyapeetham (University) is one of the youngest group of higher educational institutions in India to be conferred the “University” status under “Section 3 of the UGC Act 1956” by the Government of India in 2003 and the first to have a multidisciplinary, multi-campus set up at the outset. With head quarters at Coimbatore and campuses at Amritapuri, Kochi, Bengaluru and Mysuru, Amrita University is emerging as one of the fastest growing institutions for higher education in the country. Amrita Vishwa Vidyapeetham is managed by Mata Amritanandamayi Math with Satguru Sri Mata Amritanandamayi Devi (AMMA), one of the foremost humanitarian leaders in the world today, as the Chancellor. The University offers high quality undergraduate, postgraduate and doctoral programmes in Engineering, Business, Medicine, Dentistry, Pharmacy, Nursing, Journalism, Biotechnology, Information Technology, Arts & Science, Health Sciences, Education, Microbiology, Hospital Management, Communication & Visual Media Studies and Ayurveda. Based on the evaluation of all the campuses and programmes by a peer review committee, the University has been accredited by National Assessment and Accreditation Council (NAAC) with ‘A’ grade.

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The department of Electrical and Electronics Engineering (EEE) was established in the year 2004. It offers B.Tech., M.Tech. (Power Electronics) and Ph.D. programmes. The department has highly qualified, experienced and dedicated faculty from industry and academia. The department is equipped with excellent infrastructure, state-of-art laboratories and funded research lab (DST-SERC, MHRD, Government of India). The faculty members of the department are actively involved in contemporary research. The department also offers several programmes to support the overall development of the students.

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About the SPEAKER

Ralph M. Kennel was born in 1955 at Kaiserslautern (Germany). In 1979 he got his diploma degree and in 1984 his Dr.-Ing. (Ph.D.) degree from the University of Kaiserslautern. From 1983 to 1999 he worked on several positions with Robert BOSCH GmbH (Germany). Until 1997 he was responsible for the development of servo drives. Dr. Kennel was one of the main supporters of VECON and SERCOS interface, two multi-company development projects for a microcontroller and a digital interface especially dedicated to servo drives. Furthermore he took active part in the definition and release of new standards with respect to CE marking for servo drives. Between 1997 and 1999 Dr. Kennel was responsible for "Advanced and Product Development of Fractional Horsepower Motors" in automotive applications. His main activity was preparing the introduction of brushless drive concepts to the automotive market.

From 1994 to 1999 Dr. Kennel was appointed Visiting Professor at the University of Newcastle-upon-Tyne (England, UK). From 1999 - 2008 he was Professor for Electrical Machines and Drives at Wuppertal University (Germany). Since 2008 he is Professor for Electrical Drive systems and Power Electronics at Technische Universität Muenchen (Germany). His main interests today are: Sensorless control of AC drives, predictive control of power electronics and Hardware-in-the-Loop systems.

Dr. Kennel is a Senior Member of IEEE, a Fellow of IET (former IEE) and a Chartered Engineer in the UK. Within IEEE he is Treasurer of the Germany Section as well as Distinguished Lecturer and ECCE Global Partnership Chair of the Power Electronics Society (IEEE-PELS).

Dr. Kennel has received in 2013 the Harry Owen Distinguished Service Award from IEEE-PELS.

Dr. Kennel has significant experience in evaluating and accrediting University courses according to German, European and International Accreditation programs. He is a member of the ASiIN Commission for Program Accreditation deciding on several dozens of courses from German Universities. Besides that Dr. Kennel has got international experience by accrediting courses at Saint’s University (Yemen), Hanoi University of Technology (Vietnam) and Can Tho University (Vietnam). He has experience with Middle Europe University system as well as with the British University system.