

About Prof. Fred C. Lee



Dr. Fred C. Lee is a University Distinguished Professor Emeritus and Founder and Director Emeritus of CPES, a preeminent academic center in power electronics research at Virginia Tech. As CPES Director, Dr. Lee leads a program that encompasses research, technology development, educational outreach, industry collaboration, and technology transfer. CPES focuses its research to meet industry needs and allows industry to profit from the Center's research and outputs. The CPES program enables its Principal Plus industry members to sponsor graduate fellowships and provides the opportunity to direct research in areas of mutual interest, as well as the ability to access intellectual properties generated collectively by all industry-funded fellowships on a royalty-free and non-exclusive basis. To date, more than 250 companies worldwide have benefited from the industry partnership program. The center has been cited by NSF as a model ERC for its industry collaboration and technology transfer, education, and outreach programs.

Dr. Lee served as the President of the IEEE Power Electronics Society (1992–1994) and is a recipient of the William E. Newell Power Electronics Award in 1989. He is a member of the U.S. National Academy of Engineering, an Academician of the Academia Sinica in Taiwan, and a foreign member of the Chinese Academy of Engineering in the People's Republic of China. He is a recipient of the IEEE Medal in Power Engineering in 2015. He was elected as the National Academy of Inventors Fellow in 2018 and endorsed in 2019 as a leader in engineering and education with the Albert Nelson Marquis Lifetime Achievement Award.

About Prof. Thomas M. Jahns



In 1998, Dr. Jahns joined the Department of Electrical and Computer Engineering at the University of Wisconsin-Madison as a Grainger Professor of Power Electronics and Electric Machines, where he served as Co-Director/Director of the Wisconsin Electric Machines and Power Electronics Consortium (WEMPEC) for 14 years from 2007 to 2021. Prior to joining UW, he worked at GE Corporate Research and Development (now GE Global Research Center), in Niskayuna, NY, for 15 years. Since his retirement from the active faculty in 2021, Dr. Jahns is continuing to pursue research as a Grainger Emeritus Professor in the areas of high-performance permanent magnet machines, and integrated motor drives using wide-bandgap switches.

Dr. Jahns received the 2005 IEEE Nikola Tesla Technical Field Award and the IAS Outstanding Achievement Award in 2011. He has served both the IEEE Industry Applications Society and Power Electronics Society (PELS) as a Distinguished Lecturer. Dr. Jahns is a Past President of PELS and served two years as Division II Director on the IEEE Board of Directors (2001-2002). He was elected as a member of the US National Academy of Engineering in 2015 and received the IEEE Medal in Power Engineering in 2022.