
Electrical & Computer Engineering
S E M I N A R
Louisiana State University

Electrified Transportation Systems

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Abstract—Hear Dr. Burak Ozpineci discuss the current status of electrified transportation and the DOE Electric Drive Technologies Program roadmap from 2025 which will require 10X power density at half the cost. Significant R&D is needed in power electronics and associated technologies including power devices, device packaging materials, low voltage electronics, magnetics, and capacitors, all to enable more affordable PEVs. Dr. Ozpineci will also discuss the current research projects at ORNL as they relate to the new roadmap.

Bio—Burak Ozpineci received the B.S. degree in electrical engineering from the Orta Dogu Technical University, Ankara, Turkey, in 1994, and the M.S. and Ph.D. degrees in electrical engineering from the University of Tennessee, Knoxville, in 1998 and 2002, respectively. He joined the Post-Masters Program with the Power Electronics and Electric Machinery Research Center, Oak Ridge National Laboratory (ORNL), Knoxville, TN, in 2001 and became a Full-Time Research and Development Staff Member in 2002 and the Group Leader of the Power and Energy Systems Group in 2008. He is currently the Group Leader for the Power Electronics and Electric Machinery Group and also has a Joint Faculty Associate Professor position with The University of Tennessee. His research interests include wide bandgap power devices, additive manufacturing for power electronics, multilevel inverters, power converters for distributed energy resources and hybrid electric vehicles, and intelligent control applications for power converters. Dr. Ozpineci is the Vice Chair of the IEEE IAS Transportation Systems Committee and the Digital Media Editor for IEEE PELS. He was the recipient of the 2006 IEEE Industry Applications Society Outstanding Young Member Award, 2001 IEEE International Conference on Systems, Man, and Cybernetics Best Student Paper Award, and 2005 UT-Battelle (ORNL) Early Career Award for Engineering Accomplishment.

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Where: Room 1206 Patrick F. Taylor Hall
Info: <http://www.lsu.edu/eng/ece/seminar>

