

Board Meeting  
March 7, 2013

ESTABLISH THE GRAINGER CENTER FOR ELECTRIC MACHINERY AND  
ELECTROMECHANICS, COLLEGE OF ENGINEERING, URBANA

**Action:** Establish the Grainger Center for Electric Machinery and Electromechanics, College of Engineering

**Funding:** No New Funding Required

The Chancellor, University of Illinois at Urbana-Champaign, and Vice President, University of Illinois with the advice of the Urbana-Champaign Senate recommends approval of a proposal from the College of Engineering to establish the Grainger Center for Electric Machinery and Electromechanics.

The Grainger Center for Electric Machinery and Electromechanics (CEME) was formed in September 1999, in the Department of Electrical and Computer Engineering with funding from the Grainger Foundation, to establish a position of leadership at the University of Illinois among university programs in the field of electric machinery and electromechanics; to nurture a new generation of engineers for contributions to rotating electric machines and electromechanics; to advance the technologies of electric machines and electromechanical devices; to conduct research that promotes the understanding of rotating machinery and involves students in experiences

that enhance their knowledge; and to establish a network of collaborating universities and industries in the field.

Over the past thirteen years, the CEME has taken on a fourfold mission: education, research, economic development, and public service. The Center's primary contribution is in the field of energy, including long-term fundamental advances in electric machinery, transportation and vehicles, energy resources, and energy efficiency and reliability. CEME-supported education and research encourages economic development in Illinois directly through its graduates employed across Illinois and indirectly through its published research. CEME instructional development occurs through classroom lectures; laboratory classes; laboratory research carried out by undergraduates, graduate students, post-docs, and visiting scholars; and student and faculty publications and presentations at conferences and University seminars. The CEME nurtures large student team projects including the Solar Decathlon, the Future Energy Challenge, and the Formula Hybrid Team. These mostly undergraduate team projects are supported by faculty across multiple University departments and supervised by CEME graduate students. The Solar Decathlon houses are open to the public, first in Washington, D.C., and then in Illinois, to encourage energy-efficient design for residential applications.

The Board action recommended in this item complies in all material respects with applicable State and federal laws, University of Illinois *Statutes*, *The*

*General Rules Concerning University Organization and Procedure*, and Board of Trustees policies and directives.

The Vice President for Academic Affairs concurs with this recommendation. The University Senates Conference has indicated that no further Senate jurisdiction is involved.

The President of the University recommends approval. This action is subject to further review and approval by the Illinois Board of Higher Education.