

ECE Newsletter – Summer 2013

[K-State Selected for Inaugural National Collegiate Wind Competition](#)

A team from Kansas State University's [College of Engineering](#) is among the 10 teams selected nationally to compete in the inaugural [National Collegiate Wind Competition](#). The team's goal is to build a small wind turbine that can charge an electronic device such as a cellphone or an iPad.



The National Renewable Energy Laboratory in Colorado is the competition organizer, under direction of the U.S. Department of Energy.

The National Collegiate Wind Competition is a forum for undergraduate college students of multiple disciplines to investigate innovative wind energy concepts; gain experience designing, building and testing a wind turbine to perform according to a customized market data-derived business plan; and increase their knowledge of wind industry barriers. [Continue reading "K-State Selected for Inaugural National Collegiate Wind Competition" →](#)

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[Faculty Highlight – Dr. Satish Chandra](#)

Dr. Satish Chandra
Electrical and Computer Engineering



Multimedia: The Digital Revolution

Multimedia computing has produced a digital revolution that has changed the way we access and learn information in everyday life. It has changed the way we study, learn, communicate, play, shop, research and entertain. Many applications such as video conferencing, distance learning, entertainment, telemedicine, e-commerce and digital libraries would not have been possible without the development of highly efficient data compression techniques. One major drawback of this digital revolution is the ease with which digital content can be reproduced without loss of information. This has created another challenge, the digital rights management, or DRM, which will play an important role in the protection of

the ownership of digital content by restricting the actions a recipient may take in regard to that content. [Continue reading "Faculty Highlight – Dr. Satish Chandra"→](#)

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Partnership Program Funds Faculty Research

The Electrical Power Affiliates Program, or EPAP, is a partnership between Kansas State University's Department of Electrical and Computer Engineering and seven industry organizations: Burns & McDonnell, Kansas City Power & Light Co., Omaha Public Power District, Schweitzer Engineering Laboratories, Sega Inc. and Westar Energy. The program gives engineering students the opportunity to research, learn, network and engage in professional development.

Congratulations to the following faculty for being awarded funding for the 2013-2014 academic year. Below is a list of all research currently underway through the EPAP program. [Continue reading "Partnership Program Funds Faculty Research"→](#)

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ECE News and Updates

Save the Date!:

- Aug. 26, 2013: First day of fall semester classes
- Sept. 6, 2013: ECE Inaugural Fall Banquet (including alumni and student recognition ceremonies)
- Sept. 7, 2013: K-State Family Day and K-State football (K-State vs. Louisiana)
- Sept. 11, 2013: EPAP Day

Faculty Awards:

- Congratulations to Dr. Anil Pahwa for being awarded the Logan-Fetterhoof electrical and computer engineering faculty of distinction chair.
- Congratulations to Dr. Bala Natarajan for being awarded the Clair N. Palmer and Sara M. Palmer electrical engineering professorship.



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Building for the Future

Students Emily Schnell and Sarah Carr and Assistant Professor Punit Prakash evaluate an applicator for microwave thermal therapy of cancer with experiments on a tissue-mimicking material.



By any measurable standard – from the caliber of our instructional programs to the scope and impact of our research enterprise – the Department of Electrical and Computer Engineering ranks among the top departments of its kind worldwide.

Our vibrant academic community, lead by dedicated faculty members, is actively engaged in a variety of research projects that make important contributions to both the theory and practice – and that make our state, country and world a better place. [Continue reading](#) “Building for the Future” →

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