

CIVIL, ARCHITECTURAL & ENVIRONMENTAL ENGINEERING



December 1, 2010

Fall 2010

Energy Innovation Hub

Peking Dual Degree

New Faculty

Energy Innovation Hub

CAEE Professors **Jin Wen** (PI), **Patrick Gurian** (co-PI), and **Michael Waring** (co-PI) have received an award from the Department of Energy to establish an Energy Innovation Hub that will be located at the Philadelphia Navy Yard Clean Energy campus. The project, lead by a team at Pennsylvania State University, brings together leading researchers from academia, two U.S. National Laboratories and the private sector in an effort to develop energy efficient building designs that will cut pollution, conserve energy and position the United States as a leader in the energy efficient building industry. The mission of this Energy Innovation Hub is to research, develop and demonstrate highly efficient building components, systems, and models which are applicable to both retrofit and new construction. The Drexel team will study 1) data based models for automatic fault detection and diagnosis; 2) building sensor system design; and 3) how economic, policy and behavioral factors influence building energy consumptions. For this innovative project, the total budget is \$122 million over the next 5 years, and Drexel's share is \$2 million.

Peking Graduate School Dual MS Degree



Drexel University and the Peking University Graduate School in Shenzhen (PKUSZ) signed a memorandum of understanding to develop a dual master of science degree in environmental engineering with a focus on sustainability. Students accepted into this program will meet the requirements for a MS degree in Environmental Engineering at Drexel University and a MS degree in Environmental Science and Engineering at PKUSZ, and upon completion of the dual program requirements will receive a degree from each institution. Students admitted to this program will mainly focus in areas of water, energy, sustainability, indoor air quality and risk assessment. The program will encourage

joint research in the fields of mutual interests to the universities and the exchange of faculty and students for research, study, conference participation, seminars and workshops. For more information, please contact Dr. Charles N. Haas at haascn@drexel.edu.

CAEE Welcomes New Faculty



The CAEE Department welcomes **Drs. Ivan Bartoli** and **Eugenia Ellis**!

Assistant Professor Ivan Bartoli received his bachelor degree in Structural Engineering from the University of Bologna, Italy and a PhD in Structural Engineering from the University of California at San Diego. His research is focused in structural health monitoring of infrastructures using Ultrasonic Guided Waves, dynamic identification, and stress wave propagation modeling.

Associate Professor Eugenia Ellis, who has been a tenured faculty member in Architecture and Interiors in the Westphal College, will now have a split appointment in COE in the CAEE department. She is a registered architect, and has worked with many of the faculty in CAEE on various endeavors including Drexel Smart House (which she founded) and the Drexel Engineering Cities Initiative.



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