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October 18, 2011

Kong named associate editor of ASME Journal

Song-Chang Kong became an associate editor for the ASME Journal of Engineering for Gas Turbine and Power, which is the major ASME publication for research in gas turbines and internal combustion engines. Song-Chang is responsible for editing research papers in the internal combustion engine section. As associate editor, he will review incoming papers, assign reviewers to the best papers, then make a decision on accepting or rejecting the paper and make a recommendation to the editor-in-chief. Song-Chang's role is to ensure the papers are of exceptional quality and at the leading edge of its research area. This position is an affirmation of his excellent research in the engine research community.

kong



College of Engineering honors Bowman with PACE Award

Scott C. Bowman (BSSME'82) will be honored at Homecoming by the College of Engineering with the Professional Achievement Citation in Engineering. The award will be presented at the [80th ISUAA Honors and Awards Ceremony](#), in Benton Auditorium in the Scheman Building on Friday, October 21 at 1:30 p.m.

bowman



Iowa State researchers produce cheap sugars for sustainable biofuel production

Iowa State University's **Robert C. Brown** keeps a small vial of brown, sweet-smelling liquid on his office table. "It looks like something you could pour on your pancakes," he said. "In many respects, it is similar to molasses."

brown



Brown, in fact, calls it "pyrolytic molasses." That's because it was produced by the fast pyrolysis of biomass such as corn stalks or wood chips. Fast pyrolysis involves quickly heating the biomass without oxygen to produce liquid or gas products.

"We think this is a new way to make inexpensive sugars from biomass," said Brown, an Anson Marston Distinguished Professor in Engineering, the Gary and Donna Hoover Chair in Mechanical Engineering and the Iowa Farm Bureau Director of Iowa State's Bioeconomy Institute. ([Full Story](#))

DOE awards ISU researchers \$1M to train next generation of industrial efficiency experts

The Department of Energy awarded more than \$30 million for 24 universities in 23 states across the country to train undergraduate- and graduate-level engineering students in manufacturing efficiency to help them become the nation's next generation of industrial energy efficiency experts. Iowa State will receive \$1 million to help university teams, including a team with **Greg Maxwell**, associate professor in mechanical engineering, to gain practical training on core energy management concepts through DOE's successful Industrial Assessment Center program. ([Full Story](#))

maxwell



Summer 2011 REU programs

Research Experiences for Undergraduates (REU) are prestigious summer research opportunities that are hosted by universities and funded by the National Science Foundation (NSF). The program was started as a way to support undergraduate students in active research with science, technology, engineering, and mathematics.

Participants in six Iowa State REUs associated with the College of Engineering came from Ames, Mexico, and many places in between for a chance to participate in a ten-week research program. ([Full Story](#))

United Way Events

October 19 – [COE Book/Bake Sale](#)

October 21 – [College of Engineering Auction](#) - Ending Date

Upcoming Events and Seminars

October 21 – ME Seminar: [Pareto-Optimal Topologies: Theory and Algorithms](#), Krishnan Suresh

October 24 – ME Seminar: [Soft but Tough](#), Wei Hong

October 24 – [9 Billion People + 1 Planet = ?](#)

October 25 – ME Seminar: [Direct Numerical Simulations of a Flow over Rough Walls](#), Leonardo Stefano

October 25 – [How Agricultural Economics Saved Futures Markets:](#)

Brown responds to National Academy of Sciences report

Robert C. Brown, Anson Marston Distinguished Professor of Engineering, Gary and Donna Hoover Chair in Mechanical Engineering, Iowa Farm Bureau director of the Bioeconomy Institute, director of the Center for Sustainable Environmental Technologies, and professor of mechanical engineering, chemical and biological engineering, and agricultural and biosystems engineering, wrote a guest column for the Des Moines Register that was published Oct. 7 in response to a [National Academy of Science report](#).

According to Brown, the report concludes that advanced biofuels made from cellulosic biomass (crop residues, grasses, and wood chips) will not be economically feasible without heavy subsidies or high petroleum prices. Brown says that while the report is correct in concluding that advanced biofuels are not sufficiently developed to immediately make significant contributions to the supply of transportation fuels, the report is flawed in concluding that no biofuel pathway has prospects for standing on its own without heavy government support. ([Brown release](#))

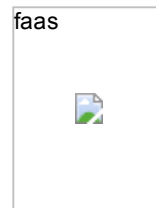
Faas finds her fit at MIT

Iowa State alumna **Daniela Faas** has had an enthralling journey that began with a move from Germany to the US as a teen, beginning what she calls her own version of the "American Dream." That dream has included excellent education and research opportunities that have taken her places

[An Untold Story of Leadership](#)

October 25 – [Ballistic Missile Defense and the Missile Defense Agency](#)

she never envisioned, and ultimately landed her a position at one of the most prestigious institutions in the United States: The Massachusetts Institute of Technology (MIT). ([Full Story](#))



Department of Mechanical Engineering
2025 Black Engineering Building, Ames, IA 50010
515 294-1423, isume@iastate.edu

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