

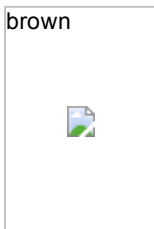
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November 16, 2011

## Iowa State engineers establish national panel to advance a carbon negative economy

A national panel led by **Robert C. 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, is launching an effort to research and develop technologies that capture, use and sequester carbon while enhancing food production, ecosystems, economic development and national security.



The 33-member National Panel for a Carbon Negative Economy recently met for the first time in Chicago. In addition to Iowa State University, participants represented other universities, companies, federal agencies and non-governmental agencies, including the Massachusetts Institute of Technology, ConocoPhillips, the National Renewable Energy Laboratory, and the International Biochar Initiative.

"Our goal is to help develop an intellectual framework for this new field and help move it forward," said Robert. ([Full Story](#))

## Solar car team completes body layup

Team PrISUm recently completed the body layup for the solar race car Hyperion at Delta Airlines in Minneapolis. The team has been working at a fast pace on an aggressive project timeline, and they are committed to creating the best solar race car yet. The team has entered the manufacturing phase for the car, and plans to finish a rolling chassis by January.

A [YouTube video](#) and a [Flickr gallery](#) of pictures document some of the work put in so far on the project. The video takes 20 hours of hard work and condenses it into 2 minutes of time-lapsed video.

## United Way campaign update

At the end of last week Iowa State University was at 93% of its goal for the 2011 United Way of Story County fundraising campaign. The College of Engineering has surpassed the goal and was sitting at 101.42% last Friday. A big thank you to everyone who helped make this possible!

If you have not donated yet, please bear in mind that there is still time. In order for gifts to be included in the check presentation at the December 7 women's basketball game, it is important that gifts to this year's campaign be received no later than December 1. Also, it is important to make a gift before the end of the calendar year for tax purposes, and to have the most impact on United Way's agencies. Check out the [United Way of Story County website](#) to see the current campaign results.

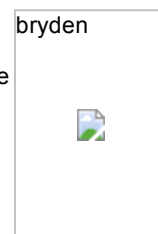
## Hashemi's research article makes top 20 of most downloaded list

A research article co-authored by **Nastaran Hashemi**, the William March Scholar in Mechanical Engineering, entitled "[Optofluidic characterization of marine algae using a microflow cytometer](#)" was one of the [top 20 most read articles in \*Biomicrofluidics\*](#) for the month of October. Nastaran wrote the article with Jeffrey S. Erickson, Joel P. Golden and Frances S. Ligler in September 2011. *Biomicrofluidics* is an online journal published by the American Institute of Physics and allows free access to articles from researchers of many fields including engineering, physics, materials science, chemistry, and biology.



## Bryden elected new chair of AIAA Technical Committee

The American Institute of Aeronautics and Astronautics' Terrestrial Energy Systems Technical Committee elected **Mark Bryden** as the new chair. The committee addresses the application of engineering sciences and system engineering to the production, storage, distribution, and conservation of energy for terrestrial uses. Congratulations to Mark on this well deserved accomplishment within the committee. He will be taking the position effective May 1, 2012.



## Middle and high school girls experience virtual reality lab

A biannual conference called "Taking the Road Less Traveled: A Career Conference for Girls" brings middle and high school female students to Iowa State to explore careers and research in math, science and computer-related fields. This year, girls were introduced to virtual reality technology by Jane Peters and Meisha Rosenberg, undergraduate students working with **Judy Vance**, the Joseph C. and Elizabeth A. Anderlik Professor of Engineering. The guests had a chance to explore and interact with different environments. The conference is organized by the Program for Women in Science and Engineering (PWISE).

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### **Upcoming Events and Seminars**

**November 21-25** – Thanksgiving Break, classes recessed

**November 24-25** – University Holiday, offices closed

**November 29** – Uncertainty Quantification in Reacting Flow, Habib N. Najm

**December 6** – ME Design Expo, 12-4 p.m., Howe Atrium

**December 16** – Fall term ends

**December 17** – Fall Commencement, 2-3 p.m., Hilton Coliseum

**December 23 and 26** – University Holidays, offices closed

### **Mechanical Engineering Department Holiday Office Hours**

#### **Thanksgiving Break**

**November 21-22:** 7:30 a.m. – 4:00 p.m.

**November 23:** 7:30 a.m. – noon

**November 24-25:** University Holidays

#### **Winter Break**

**December 19-21:** 7:30 a.m. – 4:00 p.m.

**December 22:** 7:30 a.m. – noon

**December 23 & 26:** University Holidays

**December 27-30:** Main Office Closed (limited staff in Advising Center)

**January 2:** University Holiday

**January 3-6:** 7:30 a.m. – 4:00 p.m.

**January 9:** Resume regular office hours

Department of Mechanical Engineering  
2025 Black Engineering Building, Ames, IA 50011  
515 294-1423, [isume@iastate.edu](mailto:isume@iastate.edu)

Do you have department news you'd like to share?  
Please e-mail news items for InCYde Mechanical Engineering to [Alex Rausch](mailto:Alex.Rausch).