

UCF Guest Lecturer Series in Renewable & Sustainable Energy

College of Engineering & Computer Science



GREG FRENETTE
GLOBAL MANAGER OF ELECTRIFIED FLEETS - 'PLUGGED-IN' PARTNERSHIPS
FORD MOTOR COMPANY

Date: Tuesday, March 2nd, 8:45 AM - 10:00 AM - Harris Engineering Center - Room 101
(Refreshments provided.)

Presentation: "Transportation Electrification - A Ford Perspective"

Greg Frenette - Global Manager of Ford's Electrified Fleets

When Ford Motor Company became the first automaker to partner with the utility industry in 2007 in a shared effort to understand all of the issues related to electrified vehicles, Greg Frenette, manager of the first partnership's fleet, was charged up about the program's potential.

Three years and 11 more North American utility partnerships later, Frenette - who is now manager of Global Electrified Fleets - is energized about expanding the range of Ford's EV research and demonstration programs around the world. Not only is Ford working to advance the commercialization of electric vehicles in North America, it also is engaged in similar partnerships in Europe. Frenette works with his counterparts overseas to make sure these government-funded programs have the vehicles needed to demonstrate Ford's electric vehicle technologies.

In the United Kingdom, Ford is working with Scottish and Southern Energy and Strathclyde University on the UK Low Carbon Vehicle Fleet program to demonstrate a fleet of 15 prototype electric Focus cars and collect data on their performance. In Germany, Ford is working with RheinEnergie AG, the city of Cologne and the University of Duisburg-Essen on the CognE-mobile program, using a fleet of 25 electric vehicles to conduct similar road testing. Like the North American utility partner fleets, the programs in Europe also are designed to generate data that will help Ford and its utility and government partners develop an efficient, convenient infrastructure and a seamless interface between the road and the power grid.

"This research is helping Ford and our utility partners to better understand the issues related to connectivity between vehicles and the electric grid," said Frenette. "There's definitely interest in automotive electrification and a willingness on the part of our European partners to demonstrate the advantages of the technology."

The job is an ideal fit for Frenette, who developed a keen interest in alternative energy systems during his 20-plus-year career at Ford. Prior to taking his current role, Frenette served as manager of Ford's Fuel Cell Vehicle program. In 2005, he was instrumental in launching the company's 30-car Focus Fuel Cell fleet, which has accumulated more than 1.3 million miles in real-world testing.

FORD MOTOR COMPANY:

Ford Motor Company, a global automotive industry leader based in Dearborn, Mich., manufactures or distributes automobiles across six continents. With about 198,000 employees and about 90 plants worldwide, the company's automotive brands include Ford, Lincoln, Mercury and Volvo. The company provides financial services through Ford Motor Credit Company. For more information regarding Ford's products, please visit www.ford.com.

FORD MOTOR COMPANY, PROGRESS ENERGY, ORANGE COUNTY & THE UNIVERSITY OF CENTRAL FLORIDA TO DEBUT FLORIDA'S FIRST PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Community Leaders to Address Electronic Transportation Needs & UCF & Orange County/Metro Orlando's Sustainable Energy Initiatives

Ford Motor Company, Progress Energy, Orange County and the University of Central Florida have partnered to debut Florida's first Ford Escape plug-in hybrid electric vehicle (PHEV) at UCF's Smart Solar Plug - In Research Facility on the Campus' Memory Mall.

- Ford and Progress Energy are testing one of the industry's first vehicle-to-electric grid communications and control systems, which enables electric vehicles to interface with the grid for optimal recharging.

-The new technology allows the vehicle operator to program when to recharge the vehicle, for how long and at what utility rate. For example, an operator could choose to charge only during off-peak hours when electricity is cheaper, or when the grid is using renewable energy.

- This unique vehicle, which can achieve up to 120 miles per gallon, will be tested in Florida by Progress Energy, through its partnership with Ford Motor Company. Media will have the opportunity to be among the first to test drive the vehicle. Interview key leaders in the sustainable energy community are also available.

- UCF's Smart Solar Plug-In Research Facility includes parking spaces for four electric-powered vehicles. The roof canopy consists of 48 photovoltaic solar panels that convert the sun's energy into electrical power. The system also can charge vehicles when it's dark or cloudy outside.

Date: Tuesday, March 2, 2010, 11:00 AM

Subject: Florida's first Ford Escape plug-in hybrid electric vehicle (PHEV) at UCF's

Location: University of Central Florida

Solar Smart Grid Research Facility on the Campus' Memory Mall adjacent to Parking Lot D

<http://campusmap.ucf.edu/printmap/> & <http://campusmap.ucf.edu/address.php>

Orlando, FL

Speakers:

- Dr. John Hitt, President, UCF
- The Honorable Richard Crotty, Mayor, Orange County
- Dr. Marwan Simaan, Dean, UCF College of Engineering & Computer Scienc
- Greg Frenette, Manager, Global Electrified Fleets, Ford Motor Company
- Rob Caldwell, Vice President of Efficiency & Innovative Technology, Progress Energy