TRANSPORTATION APPLICATIONS

New Fuel Cell Cars Unveiled at L.A. Auto Show.

Honda unveiled the Honda FC Sport design study model, a hydrogen-powered, three-seat sports car concept, at the 2008 Los Angeles Auto Show. The FC Sport emphasizes the design flexibility and potential of Honda’s V Flow fuel cell technology in a lightweight sports car design with an ultra-low center of gravity.

Kia showcased its new Borrego FCEV, the fourth generation of Hyundai-Kia’s FCEV program, which features the company’s 115-kW fuel cell system and a lithium-ion battery in a hybrid-drive system and offers a zero starting capability down to -30°C. The SUV can attain a maximum speed of 100 mph with a traveling range of 315 miles. The company plans to deploy a small fleet of the fuel cell Borregos on roadways during 2010.
http://www.kia.com/112008b.php

Volkswagen brought three of its fuel cell vehicle prototypes to display at the show - the Tiguan HyMotion, a compact, sporty SUV; the Touran, a compact minivan; and the Passat Lingyu, a sedan designed for use in China. Both the Tiguan and Touran utilize a VW-developed high temperature fuel cell stack while the Passat Lingyu’s fuel cell was developed by Shanghai Volkswagen with help from Tongji University.
http://www.media.vw.com/article_display.cfm?article_id=10428

Hydrogenics to Deliver Two Fuel Cell Buses to German Transit Operator.
Hydrogenics Corporation was awarded a contract to deliver two hydrogen-powered fuel cell buses to Vestische Strassenbahnen GmbH, a public transit operator in the North Rhine Westphalia region of Germany. The buses are anticipated to be put into service by Vestische in 2009 and provide daily bus service in the German cities of Herten and Bottrop. The project is being supported by the German State of North Rhine Westphalia and the European Union through the HyChain Mini-Trans project.

Adaptive Materials and University of Michigan Set UAV Record.
The longest fuel cell powered flight of a radio-controlled aerial vehicle has been achieved by students at the University of Michigan and engineers at Ann Arbor-based fuel cell manufacturer Adaptive Materials, Inc. Their plane, named Endurance, flew for 10 hours, 15 minutes and 4 seconds in a flight that lasted from sunrise to sunset on Oct. 30, 2008 at Field of Dreams Park in Milan, Mich. The previous world record, held by a California-based company, lasted just over 9 hours.
http://www.adaptivematerials.com/internal.php?sid=5&nid=51

Protonex to Unveil New RV Power System.
Protonex Technology Corporation will preview its new 250 watt fuel cell hybrid power system at the Recreational Vehicle Industry Association (RVIA) trade show this week in Kentucky. The new M250-B system is designed to provide clean and quiet power for RV enthusiasts without the noise, odor, vibration, and carbon emissions associated with conventional generators.
STATIONARY APPLICATIONS

Plug Power and National Grid Partner with DOE for Field Trial.
Plug Power Inc. and National Grid have entered into a partnership with the U.S. Department of Energy (DOE) to conduct the first field trial of Plug Power's new micro-CHP (combined heat and power) GenSys® fuel cell system. Fueled by natural gas, the 5 kilowatt GenSys will provide electricity and high-quality heat to a National Grid customer in New York State.

PORTABLE/BACKUP POWER

Microcell Installs Telecom Unit, Adds Hot Water Heaters to Product Line.
Microcell Corporation has installed a MGEN 500 series telecom unit in Takoma Park, Maryland, as part of its pre-market introduction plan. The company is also adding hot water heaters to its product line to be sold as high efficiency combined heat and power units operating on hydrogen. The hot water heaters will be introduced as 5, 20, and 40 gallon units that are heated to 130°F within one to two hours of the operation of the power generation unit.
http://www.microcellcorp.com/news.html#

MICRO FUEL CELLS

CMR Fuel Cells Signs Agreement with Asian Manufacturer.
CMR Fuel Cells plc has signed an exclusive Joint Development Agreement (JDA) with a leading Asian manufacturer to collaborate in the design and development of a stand-alone hybrid power system using both a battery and 25W Direct Methanol Fuel Cell (DMFC) charger intended for consumer use. The DMFC System being developed by CMR is designed to function with a battery being developed by its partner and is anticipated to provide over eight hours of grid-independent power for a notebook computer from a single fuel cartridge. Under the terms of the agreement, CMR will receive a purchase order for a number of prototype units to be supplied in 2009 as well as a letter of intent to CMR in respect of an initial purchase order of over 10,000 DMFC System units.
http://www.cmrfuelcells.com/index.php?option=com_content&task=view&id=80&Itemid=4

Neah Power Systems Receives Second ONR Contract.
Neah Power Systems completed its first Office of Naval Research contract and received a second contract worth $1.2 million to aid in funding the development of its methanol-based fuel cell. The first contract, originally awarded in 2007, enabled Neah Power to develop a higher power density system using larger electrodes and implemented various high-volume manufacturing process flows for the company's proprietary porous silicon technology. The second contract will aid Neah Power in providing a high-volume manufacturing, further improved power density product.
http://www.neahpower.com/media_pr_112508.html

FUELS/REFORMERS/STORAGE

Proton Energy Systems Receives $1.8 Million from TARDEC.
The U.S. Army's Tank-Automotive Research Development and Engineering Center (TARDEC) has awarded a $1.8 million contract to Proton Energy Systems for development of a hydrogen fueling system capable of supporting a military fleet of hydrogen-fueled vehicles.

Nuvera Selects Küsters Zima to Partner on Hydrogen Generation.
Nuvera Fuel Cells has selected Spartanburg, South Carolina-based Küsters Zima as a manufacturing partner for its hydrogen generation product, PowerTap™.
**MATERIALS/COMPONENTS/TESTING**

**Morphic Receives First Order for Fuel Cell Plates.**
Morphic has received its first prototype order for fuel cell plates from a European supplier to the automotive and aircraft industries. The development project will be divided into several phases, and this initial order is for modifications to an existing prototype to be delivered at the end of 2008.
http://www.morphic.se/en/Press/Press-releases/Pressrelease/?rptid=391008

**Sono-Tek Introduces ExactaCoat FC Spray Coating System.**
Sono-Tek Corporation has introduced ExactaCoat FC, a lab-scale R&D volume ultrasonic spray coating system for fuel cell manufacturing processes. The system is specifically designed for coating Proton Exchange Membranes (PEM), GDLs, electrodes and electrolyte materials, and solid oxide fuel cells with catalyst suspensions including conductive inks, PTFE binder, platinum, ceramic slurries, and other precious metal suspensions.
http://www.sonotek.com/electronics/page/124/121

**REPORTS/MARKET STUDIES**

**Hydrogen in Automotive Transportation.**
Research and Markets has released “The Future for Hydrogen in Automotive Transportation.”
http://www.researchandmarkets.com/product/c0b3a7/the_future_for_hydrogen_in_automotive_transpo

**REQUESTS FOR PROPOSALS**

**DOD SBIR for Energy Storage Technology.**
The U.S. Navy has listed “Advanced Modular, Energy Storage Technology” as a topic of interest in the new Department of Defense (DOD) Small Business Innovation Research (SBIR) solicitation. Fuel cells and supercapacitors are listed among technologies of interest under this topic.

**MISCELLANEOUS**

**Horizon Introduces Hydro-Wind Education Kit.**
Horizon Fuel Cell Technologies has released the Hydro-Wind Education Kit - a new clean energy science education set that explores the production of renewable hydrogen using energy from the wind, hydrogen energy storage, and distributed power generation using fuel cells, designed for classrooms, science fairs, or home. The kit includes a miniature wind turbine, a reversible fuel cell, water-based hydrogen storage tanks, and a small electric motor.
http://www.horizonfuelcell.com/education_kits.htm

**SFC Smart Fuel Cell Launches New Website.**
SFC Smart Fuel Cell AG has launched its new website for fuel cell users.
http://www.sfc.com

**CONFERENCES**

For a complete list of conferences, please go to http://www.fuelcells.org/news/conf.html

**Fuel Cells Durability & Performance 2008.**

**FC Expo 2009.**
Hannover Messe 2009.
The 15th Group Exhibit Hydrogen + Fuel Cells, Hannover Messe 2009 will be held April 20-24, 2009, in Hannover, Germany. For information, go to http://www.fair-pr.com/.

NEST.

HFC2009.

*Fuel cells generate electricity without combustion by harnessing the energy created when hydrogen and oxygen are chemically combined. Fuel Cells 2000 is an independent, nonprofit activity dedicated to the commercialization of fuel cell technologies.*