Transportation Applications

**Nissan Delivers X-Trail to Car Company.**
Nissan Motor Co., Ltd. delivered the latest version of its X-TRAIL fuel cell vehicle to Kanagawa Toshi Kotsu Ltd. to be used as part of their chauffer-driven hired-car fleet. This is the first time that a fuel cell vehicle has been made available for hired-car services.
http://www.nissan-global.com/EN/NEWS/2007/01_03.html

**Arizona’s Fuel Cell Bus Enters Scene.**
ECOtality, Inc. and Arizona Public Service (APS) company have joined forces to bring the first hydrogen fuel cell bus to Arizona. The ECObus is currently on a state-wide tour and is serving as a mobile classroom for hydrogen fuel cell technology. Complete with an audio visual system and interactive workstations, the ECObus is equipped to educate the community - from school children to civic decision makers - about hydrogen’s potential as an alternative to carbon fuel-burning vehicles. Compressed hydrogen fuel stored at APS Hydrogen Park will power the bus throughout the tour.
http://www.ecotality.com/ecobus/

**Volkswagen Shows Touran HyMotion.**
At a recent sustainability event, Volkswagen showcased its Touran HyMotion hydrogen fuel cell vehicle with the company’s breakthrough high-temperature fuel cell.
http://media.vw.com/article_display.cfm?article_id=10079

**Intelligent Energy and Suzuki to Develop Fuel Cell Motorcycles.**
Intelligent Energy and Suzuki Motor Corporation are working together on the development of prototype hydrogen fuel cell motorcycles using Intelligent Energy’s advanced PEM fuel cell power systems.
http://www.intelligent-energy.com/index_article.asp?SecID=15&secondlevel=798&artid=3806

**Connecticut to Study Feasibility of Fuel Cell Train.**
The Connecticut Academy of Science and Engineering (CASE) has launched a study to determine whether the state's Metro-North Railroad commuter train network could be powered by fuel cell technology. The $64,000 study will investigate whether fuel cell power stations could replace the electric substations currently powering the line, reducing demand on the local power grid.
http://www.ctcase.org/

Stationary Applications

**CFC Solutions Successfully Completes First Test Stage.**
The first test stage of a CFC Solutions’ HotModule fuel cell at Pfalzwerke’s central hospital in Gruenstadt, Germany, ended successfully after nearly 27,000 hours. Letters of intent for further collaboration are being finalized.

**Nuvera Ships Forza to Sacré-Davey.**
Nuvera Fuel Cells, Inc. has shipped a 125-kW Forza™ fuel cell power system to Sacré-Davey Innovations in North Vancouver, BC, Canada, as part of the Integrated Waste Hydrogen Utilization Project (IWHUP). The waste hydrogen is being produced by ERCO Worldwide’s local electro-chemical processing plant.  

**FuelCell Energy Expands Agreement with POSCO.**
FuelCell Energy, Inc. has entered into an expanded agreement with its Korean strategic distribution partner, POSCO. Under the 10-year license and distribution agreement, POSCO’s subsidiary POSCO Power will become a provider of FuelCell Energy's Direct FuelCell® (DFC®) power plants in Korea, and will build a facility to manufacture the balance of plant equipment for the plants.  
http://www.corporate-ir.net/ireye/ir_site.html?ticker=FCEL&script=412&layout=-6&item_id=965345

**PORTABLE/BACKUP POWER**

**NuVant Receives Additional DOD Funding.**
NuVant Systems Inc., based at the Purdue Technology Center of Northwest Indiana, has won an additional $870,000 in funding from the U.S. Department of Defense to develop ways to extend the lifetime of fuel cells. The company is working on extending the life of its direct methanol fuel cells, involving compressed hydrogen as a reactant gas.  

**MICRO FUEL CELLS**

**NTT DoCoMo Signs New Agreement with Aquafairy.**
NTT DoCoMo has signed a new basic agreement with Aquafairy to strengthen the joint R&D system for development of handset rechargers using Aquafairy's hydrogen fuel cell technology.  

**FUELS/REFORMERS/STORAGE**

**Air Products Opens Advanced Hydrogen Station.**
Air Products and the University of California, Irvine (UCI) unveiled a new 700 and 350 bar (10,000/5,000 psi) pressure capable vehicle fueling station on the UCI campus, the first in the United States to be sited at a location with wider accessibility for vehicle fueling demonstrations. The station is the first deployed by Air Products as part of the California Hydrogen Infrastructure Project (CHIP) with the United States Department of Energy (DOE), along with project collaborators Toyota, Honda, BMW and Nissan.  

**Humboldt State Building Hydrogen Fueling Station.**
Engineers at Humboldt State University's Schatz Energy Research Center (SERC) are designing and installing a campus hydrogen fueling station as part of California's Hydrogen Highway Program. SERC has secured $350,000 from Chevron Technology Ventures, a division of Chevron USA, toward equipment and materials for the hydrogen fueling station. The station will include an electrolyzer to produce hydrogen from water, a compressor, storage tanks and a dispenser. SERC is seeking additional partners to help fund the cost of facility design and installation.  

**American Hydrogen Corporation Launches.**
American Security Resources Corporation has created a wholly owned subsidiary, American Hydrogen Corporation, to further develop and commercialize a breakthrough technology to formulate hydrogen. American Hydrogen Corporation will operate initially from the offices of ARSC's subsidiary, Hydra Fuel Cell Corporation.  
http://www.americansecurityresources.com/
Entergris Unveils Two New Product Lines.
Entegris unveiled new products to help manufacturers improve fuel cell performance – the Parallel Plate and Aeronex® Hydrogen H2 purification line. The Parallel Plate line helps meet the industry's increasing demand for uniform compression-molded bipolar plates used in portable, stationary and transportation fuel cell stacks. The Aeronex Hydrogen H2 gas purification line has generated a great deal of interest in fuel cell test stands for its unique ability to reduce molecular contaminants such as oxygen, moisture and hydrocarbons to levels of less than 1 part per billion. Through its ability to minimize contamination in hydrogen, the new purification line helps increase material quality and overall system performance.
http://www.entegris.com/Newsroom.aspx

University of Delaware Receives DOE Grant.
Researchers at the University of Delaware have received a $960,000 grant from the U.S. Department of Energy (DOE) to identify low-cost, nano-sized catalysts – tiny amounts of metal compounds – that can spur the chemical conversion of liquid fuels into hydrogen.

ElectroChem to Become Columbian Chemicals Distributor.
Columbian Chemicals Co. and ElectroChem, Inc. have entered into a distribution agreement where ElectroChem will feature Columbian’s advanced fuel cell products on www.fuelcell.com, including the winning DURA-lyst® Advanced Fuel Cell Electrocatalysts.
http://www.columbianchemicals.com/

REPORTS/MARKET STUDIES

Light Duty Vehicles.
Fuel Cell Today has updated its Light Duty Vehicles Market Survey. The report finds that 2007 should be a positive year for fuel cell cars. Many of the key automotive manufacturing companies have announced plans for fuel cell concept vehicles and some have even gone as far as proposing dates for commercialization much earlier than had previously been anticipated.

REQUESTS FOR PROPOSALS

Navy Issues Solid Hydrogen Storage BAA.
The Naval Surface Warfare Center, Crane Division and the Defense Logistics Agency have issued a Broad Agency Announcement (BAA) for projects to identify novel materials and processes that can provide potential breakthroughs in solid hydrogen storage for DOD vehicle applications. A total of $1.5 million is available under this BAA, with individual project awards expected to be between $300,000 and $400,000. A pre-proposal conference will be held March 8, 2007, in Arlington, Virginia.

MISCELLANEOUS

Continuing Resolution Increases DOE EERE FY2007 Budget.
A newly approved bill provides a significant funding increase for the DOE Office of Energy Efficiency and Renewable Energy (EERE) for the remainder of the current fiscal year. House Joint Resolution 20, also known as the “Revised Continuing Appropriations Resolution, 2007,” continues funding at FY 2006 levels for much of the federal government, but Section 20314 of the bill specifies that nearly $1.474 billion go to EERE. That represents a nearly 27 percent increase over the amount appropriated by Congress for FY 2006, but the effective increase is even greater, since the bill eliminates most if not all congressionally directed funds, or "earmarks." The lack of earmarks gives EERE a great amount of flexibility in how it directs the funds.

DOE Releases FY2008 Budget Proposal.
The Department of Energy released its proposed budget for FY2008, which requests nearly $480 million for hydrogen and fuel cell-related programs. Requests are as follows: the Hydrogen and PEM Fuel Cell Program (Office of Energy Efficiency and Renewable Energy), $213 million; Solid-State Energy Conversion Alliance (Office of Fossil Energy), $62 million; Basic Research (Office of Science), $59.5 million; Coal-to-Hydrogen (Office of Fossil Energy), $12.5 million; Hydrogen Production (Office of Nuclear Energy), $22.6 million; FutureGen (Office of Fossil Energy), $108 million.
http://www.cfo.doe.gov/budget/index.htm

The Department of Transportation FY2008 budget request includes $12 million for its Research and Innovative Technology Administration’s (RITA) Research and Development program. The program will promote and advance innovative transportation technologies including hydrogen fuels. DOT has also requested $49 million for its Clean Fuels Grant Program, which provides financing for the purchase or lease of clean fuel buses, including fuel cell buses.

HTceramix and SOFCpower Team Up.
HTceramix (HTc) has established a partnership with SOFCpower for the industrial production and commercialization of HTc’s HoTbox™. The HTc-SOFCpower team will increase to approximately 25 people in the upcoming months and HTc has also expanded its facilities, adding multiple test benches for stacks and HoTboxes™. SOFCpower is setting up a pilot production line that will be operational by the end of 2007.

Microcell to Open Manufacturing Facility in North Carolina.
Microcell Corporation has finalized an agreement with the Martin County Economic Development Corporation for an 80,000 square foot (7400 m2) fuel cell manufacturing facility in eastern North Carolina. The facility is expected to bring over 100 jobs to the area and will focus on manufacturing the company’s automotive and distributed generation fuel cells to meet product orders from its strategic partners and other customers.
http://www.microcellcorp.com/news.html#

Nuvera Receives Grant to Construct New Headquarters.
MassDevelopment and the Massachusetts Technology Collaborative have granted $5 million in loans to Nuvera Fuel Cells Inc. to help construct and outfit its new headquarters in Billerica, Massachusetts. The loan consists of a $2.5 million direct investment from MassDevelopment’s Emerging Technology Fund and a $2.5 million investment from the collaborative’s Renewable Energy Trust. Nuvera broke ground on its new facility last summer, and officials have set a target of June 2007 for relocation from the old facility.
http://www.nuvera.com

MTU CFC Solutions Drops the MTU.
MTU CFC Solutions GmbH has changed its name to CFC Solutions GmbH. The company will continue to focus on the further development of fuel cell technology for power and heat cogeneration.

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

The 9th International Small Fuel Cells for Portable Applications conference will be held March 7-9, 2007, at the Marriott Miami Hotel in Miami, Florida. For more information, please go to http://www.knowledgepress.com/events/7131050.htm.


**Sustainable Transport Fuels 2007.**
The Sustainable Transport Fuels 2007 conference: Markets and Technological Development - Unleashing the Commercialization Potential of Future Fuels will be held in Beijing, China, on April 23-24, 2007. For more information, please go to http://www.inc-global.com/events/Sustainable%20Transport%20Fuels%202007.htm.

**BU Emerging Technologies Seminar.**

**2007 USFCC Congressional Fuel Cell EXPO.**

**Fuel Cell Early Markets 2007.**
Fuel Cell Early Markets 2007: Policy, Finance, & Applications will be held June 11-12, 2007, at the Brussels Marriott Hotel in Brussels, Belgium. For more information, please contact Magda Dziembowski at mdziembowski@intertechusa.com or visit http://www.intertechusa.com/fuelcells.html.

**Nanotechnology Symposium.**

**HFCE2007.**
The 2007 China International Hydrogen & Fuel Cell Investment & Trade Expo (HFCE2007) will be held in Shanghai, China, on July 21-23, 2007. For details, go to http://www.chinahydrogen.org/.

**Degradation Issues.**
International Workshop on Degradation Issues of Fuel Cells will be held September 19-21, 2007, in Crete, Greece. For more information, please email roberto.bove@jrc.nl.

**Grove Fuel Cell Symposium.**

**Materials Issues.**
An International Symposium on Materials Issues in a Hydrogen Economy is scheduled for November 12-15, 2007, in Richmond, Virginia. For registration information, go to http://www.has.vcu.edu/phy/ishe/.

**European Fuel Cell Conference.**
The European Fuel Cell Technology & Applications International Conference will be held December 11-14, 2007, at the Consiglio Nazionale delle Ricerche Piazzale Aldo Moro 7 in Rome, Italy. For conference details, please visit http://www.asmeconferences.org/EFC07.

*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.*