To: Reporters, editors and investors following business, energy, automotive and technology news.
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TRANSPORTATION APPLICATIONS

GM Unveils New Sequel.
General Motors (GM) has unveiled its latest concept vehicle, the Sequel. The Sequel incorporates technologies shown in previous concept vehicles, such as fuel cells, by-wire and wheel hub motors, as well as an 11-inch skateboard chassis. The Sequel, about the size of a Cadillac SRX, travels up to 300 miles on its hydrogen supply, and accelerates to 60 mph in less than 10 seconds.
http://media.gm.com

Start Spreadin’ the News – Fuel Cell Cars to Come to New York.
General Motors and Shell Hydrogen LLC announced that a fuel cell vehicle fleet and refueling station will be established in New York. GM will be providing 13 fuel cell-powered vehicles and Shell Hydrogen LLC will establish New York State’s first hydrogen service station in the New York City metropolitan area in 2006, which is anticipated to involve installing a portable hydrogen-refueling module at an existing Shell station.
http://www.shell.com/home/Framework?siteId=home

Honda Delivers FCX to Hokkaido Prefectural Government, Will Lease FCX to Individual.
Honda Motor Co., Ltd. delivered a Honda fuel cell stack-equipped FCX, the first fuel cell vehicle capable of starting in sub-freezing temperatures, to the Hokkaido Prefectural Government. The lease is the first of a fuel cell vehicle in Japan in a region that experiences sub-freezing temperatures. Honda also plans to begin leasing fuel cell vehicles to individual U.S. customers by the end of the year. Honda is anticipated to initially target drivers in California, leasing the cars for approximately $500 per month.

DaimlerChrysler Testing in Freezing Temperatures, Hits 100 Fuel Cell Vehicles Goal.
DaimlerChrysler is currently testing fuel cell vehicles in Detroit, Michigan, collecting operational data in the extreme cold. Daimler is testing both the Mercedes-Benz F-Cell and Dodge Fuel Cell Sprinter, containing the Electronic Stability Program (ESP). This system works with the Anti-lock Brake System (ABS) to aid the driver in maintaining vehicle directional stability, providing over steer and under steer control to maintain vehicle behavior on a multitude of road surfaces, including ice and snow. DaimlerChrysler has produced more than 100 fuel cell vehicles, making it the largest fuel cell fleet in the world. The vehicles include 60 Mercedes-Benz F-Cell passenger cars; three Dodge medium-duty fuel cell Sprinter Vans; 33 Mercedes-Benz Citaro fuel cell buses and more than 10 research and development vehicles.
http://www.media.daimlerchrysler.com/gms_frame

STATIONARY POWER

Delphi Exceeds DOE’s Cost Goal.
Delphi Corp., a partner in the U.S. Department of Energy’s advanced fuel cell development program, has reported that it has exceeded the power density level required to meet the $400 per kilowatt cost goal for fuel cells. Meeting the cost target is essential if fuel cells are to expand beyond their current niche markets into widespread commercial use. At $400 per kilowatt – nearly one-tenth the cost of power-
generating fuel cells currently sold on the market – fuel cells would compete with traditional gas turbine and diesel electricity generators.

**Northern Power Awarded NYPA Contract for Fuel Cell System.**
Distributed Energy Systems Corporation subsidiary Northern Power Systems has been awarded a master implementation contract by the New York Power Authority (NYPA) to design, engineer and install distributed generation (DG) projects at various NYPA customer sites over the next three years. The first of two projects identified for development is a 400-kilowatt (kW) fuel cell combined heat and power (CHP) system for Metro North in Grand Central Station in New York City. The anticipated total value of the contract over the three-year time period is between $5 and $10 million.

**Acumentrics Ships SOFC System to Sumitomo.**
Acumentrics Corporation has shipped a 5-kW solid oxide fuel cell (SOFC) system to the Sumitomo Corporation of Japan. The unit will be located and tested at the Yawata Laboratories of Nippon Steel Corporation and is the second Acumentrics demonstration unit to be shipped to Japan.
http://www.acumentrics.com/

**FCT and TOTO Sign MOU for SOFCs.**
Fuel Cell Technologies Ltd. (FCT) and TOTO Ltd. have signed a Memorandum of Understanding (MOU) regarding the design, development and manufacture of a 2-3-kW solid oxide fuel cell (SOFC) system. Under the terms of the MOU, FCT will design and build a small SOFC system for residential markets using tubular cell stacks supplied by TOTO.

**PORTABLE/BACKUP POWER**

**Millennium Cell and Protonex to Display Portable Power System.**
Millennium Cell Inc. and its fuel cell partner, Protonex, will be displaying a prototype 30-Watt portable power system at the Tactical Power Sources Summit Conference. This integrated power system will be the first deliverable under a previously announced U.S. Air Force Research Laboratory, Dual Use Science and Technology (DUST) contract awarded to Protonex. Under this program, Protonex and Millennium Cell are integrating Millennium Cell’s hydrogen energy system with Protonex's PEM fuel cell system to provide an integrated fuel cell power source to provide critical soldier power for extended field missions. The prototype system is scheduled to be delivered to the Air Force in February of 2005.
http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=MCEL&script=410&layout=6&item_id=667315

**Nanosys Enters into Agreement with Sharp.**
Nanosys, Inc. has entered into a collaborative agreement with Sharp Corporation to develop nanotechnology-enabled fuel cells incorporating Nanosys' proprietary nanostructure technology. Under the terms of the agreement, Nanosys will collaborate with Sharp to help develop high performance fuel cells for use in portable consumer electronics such as laptop computers, cell phones and cameras.

**FUELS/REFORMERS/STORAGE**

**Plug Power to Install Two Hydrogen Generators in New York.**
Plug Power Inc. intends to install two GenSite™ hydrogen generators under two recently awarded programs sponsored by the New York State Energy Research and Development Authority (NYSERDA). Under the first program, Plug Power will partner with American Honda Motor Co., Inc., Air Products and Chemicals, Inc. and Homeland Energy to provide the refueling infrastructure necessary for fuel cell vehicles, including two Honda FCX’s recently leased by the State of New York. As part of the second project, Plug Power will partner with Albany NanoTech to integrate a GenSite system into the existing hydrogen infrastructure.
BP to Open Second Hydrogen Fueling Station in Singapore.  
BP signed a Memorandum of Understanding (MOU) with JTC Corporation to build a second hydrogen fueling station in Singapore. The new station will consist of a hydrogen production facility utilizing electrolysis technology by Singapore Oxygen Air Liquide (SOXAL) for on-site hydrogen production, compression equipment and a vehicle refuelling dispenser unit located under a canopy. The project should be completed by second quarter of 2005.  
http://www.bp.com/genericarticle.do?categoryId=2012968&contentId=7003932

NETL and Carnegie Mellon Develop New Modeling Tool.  
The Department of Energy's National Energy Technology Laboratory (NETL) and Carnegie Mellon University have developed a new computational modeling tool that could make the production of hydrogen cheaper. The modeling tool, supported by the DOE's Office of Fossil Energy, predicts hydrogen flux through metal alloy separation membranes that could be used to produce pure hydrogen.  
http://www.cmu.edu/PR/releases05/050127_hydrogen.html

Donaldson Ships First Fuel Cell Filters Manufactured in Japan.  
Donaldson Company has shipped its first FC3 (Fuel Cell Contamination Control) products manufactured in Japan at its factory in Gunma.  
http://www.donaldson.com/index.html

FuelCon Systems to Supply Test Stations to NRC.  
FuelCon Systems was chosen to supply the Canadian National Research Council - Institute for Fuel Cell Innovation (NRC-IFCI) with 500-Watt PEM fuel cell test stations. The NRC-IFCI has developed a fuel cell test center as part of the base for its Hydrogen and Fuel Cell Technology Hub. This facility tests component, single cells, short stacks and power modules.  

The International Energy Agency (IEA) has published "Hydrogen and Fuel Cells - Review of National R&D Programs."  

Hydrogen Economy Report.  
Research Reports International recently published "Towards a Hydrogen Economy", a 110-page study of the movement towards using hydrogen as a key energy carrier.  

Connecticut Clean Energy Fund Issues RFP for “Project 100”.  
The Connecticut Clean Energy Fund (CCEF) issued a Call for Applications for its Renewable Energy Pre-Development Program to encourage the development of renewable energy projects. Project developers that have performed preliminary feasibility studies at a specific site can apply for as much as $250,000 for projects up to 5 megawatts and up to $500,000 for projects greater than 5 megawatts to advance their projects toward development.  
http://www.ctcleanenergy.com/investment/Project100.html

The Government of Ontario has announced the new Ontario Fuel Cell Innovation Program to help make Ontario a leader in the global innovation economy. This Program will build strong regional clusters and engage business expertise and venture capital to help move technology from research stages to industrial, residential and commercial uses. Ontario is also providing $8 million in funding, over four years, to create a new Centre of Excellence for Energy. The Centre of Excellence for Energy will further the government's innovation agenda by encouraging research and development into leading edge and emerging energy sources and technology.

http://www.fuelcells.2ontario.com/news2.html

University of Michigan Develop Microfabrication Production Methods.
University of Michigan (U-M) researchers are developing ways that could produce fuel cells at a fraction of the current cost by using microfabrication rather than traditional manufacturing processes. Microfabrication is the creation of physical structures, devices or composite materials whose component parts are sized around 1 micrometer. Using these lower-cost manufacturing methods, combined with less expensive materials, U-M scientists hope to reduce the cost of fuel cells from nearly $10,000 per kilowatt to less than $1,000 per kilowatt.


CONFERENCES

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

Asia Power 2005.
Asia Power 2005 will be held March 1-3, 2005, at the Grand Hyatt Hotel in Singapore. For more information on Asia Power 2005, please visit http://www.terrapinn.com/2005/ap%5FSG/.

Hydrogen Expo USA 2005.
Hydrogen Expo USA 2005 is being held in conjunction with the National Hydrogen Association's Annual Conference from March 29-April 1, 2005, at the Marriott Wardman Park in Washington, DC. For more information, please go to http://www.hydrogenexpo.com/.

Hannover Fair '05.
The International Hydrogen + Fuel Cells Group Exhibit, Hannover Fair '05, will be held April 11-15, 2005. More information is available at: http://www.fair-pr.com/ or by email arno@fair-pr.com.

Small Fuel Cells.
The 7th Annual Small Fuel Cells (sm) 2005 - Small Fuel Cells for Portable Applications will be held April 27-29, 2005, at the Loews L'Enfant Plaza Hotel in Washington, DC. For more information, please visit http://www.knowledgefoundation.com.

Ohio Fuel Cell Symposium.

IPHE Hydrogen Storage.
The International Partnership for the Hydrogen Economy (IPHE) is hosting an International Conference on Hydrogen Storage from June 20-22, 2005, in Lucca, Italy. For information, go to http://www.engconfintl.org/5ar.html.

Lucerne FUEL CELL FORUM 2005.
Two international fuel cell conferences, Fuel Cells for a Sustainable World and the 3rd European Polymer Electrolyte Fuel Cell Forum, will be held July 4-8, 2005, at the Kultur- und Kongresszentrum Luzern in Lucerne, Switzerland. For registration information, please visit http://www.efcf.com/.

Materials for the Hydrogen Economy.

**Automotive Fuel Containment 2005.**
The Second International Polymers in Automotive Fuel Containment Conference will be held December 6-7, 2005, in Hannover, Germany. For conference details, go to http://www.rapra.net/conferences/AutoFuelCont05/index.asp.

*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.*