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We’ve had some interesting guest posts on the Fuel Cell Insider blog – check it out and let us know what you think! All comments are welcome – questions, debate, supplemental information, support for fuel cells or the blog in general. http://www.fuelcellinsider.org

TRANSPORTATION APPLICATIONS

South Korea Signs Submarine Contract.
South Korea’s DAPA procurement agency has signed a contract with HDW for 6 “material packages” used to build Class 214 submarines, consisting of unassembled submarine parts and partial assemblies. This is the second order of submarines – the first group used 120kW Siemens PEM fuel cells which gave the submarine an underwater endurance of 2 weeks. The second batch will reportedly improve on that system.

Smart Fuel Cell Wins Two Motor Home Magazine Awards.
Smart Fuel Cell AG’s EFOY fuel cell has won third place in the “Autonomous Power Generation” category of the German motor home magazine promobil’s annual reader awards. The EFOY also won second place in the “Best Product of the Year” category from the British magazine, Motorcaravan Motorhome Monthly. The EFOY fuel cell is available as standard or optional equipment by 37 international motor home manufacturers.

STATIONARY APPLICATIONS

Japan Companies to Sell Home Fuel Cell.
Six Japanese companies will sell a residential fuel cell system manufactured by Ene Farm brand beginning in May. Tokyo Gas, Osaka Gas Co., Nippon Oil Corp., Toho Gas Co., Saibu Gas Co. and Astomos Energy Corp. will aim to sell a total of 5,000 units in the first year.
http://www.istockanalyst.com/article/viewIStockNews/articleid/2990159

PORTABLE/BACKUP POWER

Fort Jackson to Install Ten Fuel Cell Units.
The Army Corps of Engineers has entered into a cooperative agreement with the Advanced Technology Institute (ATI) to deploy 10 fuel cell backup power units in three mission-critical applications at Fort Jackson, South Carolina. The U.S. Department of Energy and South Carolina Research Authority, the parent organization of ATI, are also partners in the project, with LOGANEnergy procuring and installing the fuel cell equipment. The total funding to support the deployment, shared among the partners, is approximately US$500,000. The fuel cells will provide critical backup power to the Fort Jackson Telecommunications Center, Energy Monitoring and Control Facility, and Emergency Services Center.
Microcell and Curtiss-Wright Flow Control Enter Agreement.
Microcell Corporation and Curtiss-Wright Flow Control's Electro-Mechanical Systems Division, through its business unit, Advanced Products and Systems Division (APSD) have reached an agreement to produce Microcell-based fuel cell power systems aimed at the electric utility and telecommunications back up power markets.

UPS Systems Supplying Fuel Cells to Npower.
UPS Systems is supplying two Smart Fuel Cell EFOY methanol fuel cells to Npower Renewables to provide prime power in a portable wind monitoring application. The fuel cells will be supplied with a single twenty-eight liter canister of methanol to power the system for over a month.
http://www.upssystems.uk.com/news.php

Jadoo Receives DoD Contract.
The U.S. Department of Defense awarded Jadoo Power a contract to produce an aeromedical rescue and transport fuel cell power system to drive the emergency medical equipment onboard a military evacuation and transport aircraft. The award accelerates the development of the 100 Watt Portable Electric Power Supply for Aeromedical Evacuation (PEPSAE), a smaller version of its original 400 Watt PEPSAE power system. The PEPSAE could mount directly on a transport stretcher along with the critical portable medical equipment.

MICRO FUEL CELLS

FUELS/REFORMERS/STORAGE

The U.S. Department of Transportation (DOT) Pipeline and Hazardous Material Safety Administration (PHMSA) has published its final rule allowing transport of fuel cells and a wide range of fuel cell fuels on board U.S. passenger aircraft as carry-on baggage, as well as providing for routine cargo shipment of fuel cells and fuel cell cartridges by road and rail, and international ocean shipment in bulk. The final rule expands the types of fuel cell cartridges permitted in carry-on baggage to include “water-reactive substances and hydrogen in a metal hydride.” The rule now aligns PHMSA provisions for transport of fuel cells and cartridges with international standards.
http://phmsa.dot.gov/portal/site/PHMSA/menuitem.ebdc7a8a7e39f2e55cf203105024ba0c/?vgnextoid=4678dfe3db8e110VgnVCM1000001ed07898RCRD&vgnextfmt=print

Jadoo Power Systems was awarded a U.S Air Force SBIR (Small Business Innovation Research) contract to continue the development of ammonia borane based materials for advanced hydrogen generation systems. Ammonia borane is a white solid hydrogen fuel stock and has been shown to deliver an 80% reduction in system weight.
http://www.jadoopower.com/Newsroom/NewsRoom.aspx

MATERIALS/COMPONENTS

Sensor Products Introduces Pressurex Zero®.
Sensor Products Inc. announced Pressurex Zero®, the newest addition to its tactile pressure-indicating sensor films. Pressurex Zero® characterizes tactile contact surface pressure down to an extremely low 7.2 PSI (0.5 kg/cm²) and aids in the design, manufacture and testing of fuel cells by helping to ensure uniform and accurate spacing between membranes in order to achieve maximum current flow and fuel usage efficiency in a fuel cell stack assembly.
http://www.sensorprod.com/pressurex_zero.php
**Porous Materials Introduces Fuel Cell Porometer.**
Porous Materials, Inc. introduced its new PMI Fuel Cell Porometer which provides fully automated through-pore analysis including porethroat diameter, pore size distribution, mean flow pore diameter, and liquid and gas permeability. The instrument has special features to measure the effects of compressive stress on a sample, test temperature, sample orientation, layered structure on pore structure characteristics.
http://www.pmiapp.com/

**NexTech Selects Haiku Tech as Europe/India Reseller.**
NexTech Materials, Ltd. has appointed Haiku Tech of The Netherlands as an authorized reseller for Europe and India. Haiku Tech will distribute NexTech products sold under the branded name Fuel Cell Materials. Additionally, Haiku Tech will offer the full complement of services provided by the newly formed commercial services division of NexTech.
http://www.nextechmaterials.com/view_page.php?id=70

**REPORTS/MARKET STUDIES**

**Fuel Cell Today Releases Latest Industry Review.**
Fuel Cell Today released its latest Industry Review, “Fuel Cells: Emerging Markets,” which predicts that fuel cell shipments will exceed 5 million units per year by 2013, a 277% increase over the next five years. The publication reports that there were shipments of 18,000 units in 2008, mainly in the portable and stationary sectors and the analysts anticipate that fuel cell shipments will substantially increase in key markets such as uninterruptible power supplies; combined cooling, heating and power; and fuel cells for portable devices. Furthermore Fuel Cell Today anticipates considerable uptake of fuel cells in key non-traditional ‘emerging market’ regions such as India, Latin America and the Middle East.
http://www.fuelcelltoday.com/

**REQUESTS FOR PROPOSALS**

**Fuel Cell APUs for Military Vehicles.**
The U.S. Army Operational Test Command has issued a notice seeking sources capable of designing, developing and producing ruggedized fuel cell units suitable for use as auxiliary power sources for military armored and other vehicles. Interested parties should submit their Technical Capabilities in writing by February 23, 2009.
https://www.fbo.gov/index?s=opportunity&mode=form&id=f34efaf9aea2fd5a089ca73dde1072fa&tab=core&cview=0

**CEC Solicitation.**
The California Energy Commission (CEC) Public Interest Energy Research (PIER) Emerging Technology Demonstration Grant Program has issued a solicitation seeking energy efficient technologies in the areas of Industrial, Water and Water Treatment, Data Centers and Energy Storage. Up to $4.4 million in funding is available under this solicitation with maximum per project funding of $400,000.
http://www.energy.ca.gov/contracts/PON-08-006/

**Hydrogen Storage Materials.**
The U.S. Department of Energy (DOE) has issued a Request for Information (RFI) on the formation of new Centers of Excellence (CoE) for the research and development of hydrogen storage materials. The RFI seeks feedback from the research community and stakeholders which will then be used in the formulation of program strategies in a future CoE Funding Opportunity Announcement.
http://www.hydrogen.energy.gov/news_rfi.html

**MISCELLANEOUS**

**FuelCell Energy Awarded Phase II SECA Contract.**
FuelCell Energy, Inc. has been awarded a contract for Phase II of the U.S. Department of Energy's Office of Fossil Energy Solid State Energy Conversion Alliance (SECA) Coal-Based Systems Cooperative Agreement. DOE is funding $21 million of the $30.2 million total program cost. The project runs through September 2010 and seeks to build a minimum 25 kilowatt (kW) solid oxide fuel cell (SOFC) to be integrated with a 250 kW to 1 megawatt (MW) fuel cell power module and a 5 MW proof-of-concept system that will operate on coal-based syngas (fuel created by reacting coal at high temperatures). The module and proof-of-concept system are to be designed, fabricated and tested in subsequent SECA program phases.


Canadian Hydrogen and Fuel Cell Association Formed.
The Canadian Hydrogen and Fuel Cell Association (CHFCA), a new national association for Canada’s world-recognized hydrogen and fuel cell sector, begins its operations following the successful merger of the Canadian Hydrogen Association and Hydrogen & Fuel Cells Canada. The CHFCA unites the members of the CHA and H2FCC to form a vibrant, influential association that represents the majority of the stakeholders in Canada’s hydrogen and fuel cell sector.

http://www.chfca.ca/

CONFERENCES

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

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/.

4<sup>th</sup> Annual Hydrogen Symposium.
4<sup>th</sup> Annual Hydrogen Symposium will take place April 22-23, 2009, at Purdue University. For an overview of the event, go to http://www.purdue.edu/dp/energy/events/2009hydrogen/index.php.

Small Fuel Cells 2009
The 11<sup>th</sup> Small Fuel Cells conference will take place May 7-8, 2009, in Orlando, Florida. For conference details, please visit http://www.knowledgefoundation.com

HFC2009.

eHYDROGENIA®
The 3<sup>rd</sup> eHYDROGENIA® Conference will be held September 21-22, 2009, in Bucharest, Romania. For details, please go to http://www.ipa.ro/html/evenimente.html.

Eleventh Grove Fuel Cell Symposium.
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.