Hope everyone is having a wonderful summer so far. We sure could have used a few fuel cells here in the DC area this past weekend!

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**TRANSPORTATION APPLICATIONS**

**Toyota and BMW Join for Fuel Cell Development.**
Toyota Motor Corporation (TMC) and BMW AG have signed a Memorandum of Understanding (MoU) aimed at long-term strategic collaboration in four fields: joint development of a fuel cell system; joint development of architecture and components for a future sports vehicle; collaboration on powertrain electrification; and joint research and development on lightweight technologies. BMW was previously working with General Motors on fuel cell development – no word on whether this has ceased completely in light of the new effort with Toyota.
https://www.press.bmwgroup.com/pressclub/p/pcgl/pressDetail.html?outputChannelId=6&id=T0128045E_N&left_menu_item=node_2201

**Mercedes-Benz Opens New Fuel Cell Facility in Canada.**
Mercedes-Benz Canada opened the world's first automated automotive facility dedicated to the production and production technology development of fuel cell stacks in Burnaby, British Columbia, Canada.

**SFC Receives Add-on Order from Volkswagen.**
SFC Energy AG has received an order by Volkswagen Commercial Vehicles for equipping an additional 242 Volkswagen T5 transporters with its EFOY Pro fuel cell generators. The vehicles are used by the German Federal Office for Goods Transport (BAG) for toll inspection purposes. In other SFC news, professional sailor and 2010 Route du Rhum winner Andrea Mura is using SFC's EFOY COMFORT 210 fuel cell for powering the equipment onboard his Open 50 “Vento di Sardegna” race sail boat during the TwoStar Two Handed Transatlantic 2012 boat race.

**ITM and IFCS Collaborating on Materials Handling Systems.**
ITM Power has signed an agreement with Infintium Fuel Cell Systems Inc. (IFCS) to become its exclusive European distributor of fuel cell systems for materials handling equipment. Following recent successful trials, the agreement will facilitate the development of the materials handling market in Europe.

**STATIONARY APPLICATIONS**
eBay Bidding on Largest Fuel Cell Installation in Country.
eBay Inc. announced plans to build the next phase of the company's flagship data center with the country's largest non-utility fuel cell installation - 30 Bloom Energy servers totaling 6 megawatts (MW). The installation is being designed and engineered into eBay's expanded data center facility in Utah, and will be fully functional by mid-2013. The fuel cells will be powered by biogas and will power millions of transactions by eBay's more than 102 million active users, as well as activity across eBay's other global commerce platforms, including PayPal and StubHub, enabling merchants, retail partners, buyers and sellers to do greener commerce.

CBS to Install 2.4 MW of UTC Fuel Cells; Saint Francis Hospital Installs More UTC Units at Hartford Campuses, UTC Launches Interactive City Scape.
CBS Studios will install six UTC Power PureCell® fuel cell systems totaling 2.4 MW at two production locations in California. Three units will be installed at CBS Studio Center, a production facility with 18 sound stages and office space in Studio City, California, with three others to be installed at CBS Television City in Los Angeles, housing eight sound stages and office space. UTC Power also installed 400 kW PureCell stationary fuel cell systems at two Saint Francis Care campuses in Hartford, Connecticut, to provide clean, reliable power to its facilities. Saint Francis Hospital and Medical Center has had a UTC Power 200 kW fuel cell powering part of their main campus for the last several years. UTC also launched a new interactive tool showing how fuel cells fit into our everyday lives.
http://www.utcpower.com/pressroom/pressreleases/utc-power-purecell-systems-to-power-the-stars
http://www.utcpower.com/fuel-cell-city-scape

AFC to Install 1 MW System in UK.
AFC Energy and Industrial Chemicals Limited (ICL) are teaming up to build the UK's largest fuel cell facility, installing 1 MW at ICL's recently built chlor-alkali plant in Essex. The hydrogen produced as a waste by ICL's chlor-alkali process will be used to generate power using AFC's alkaline fuel cell system.

Roger's Gardens Installs 15 kW ClearEdge Power System.
Roger's Gardens, a destination home and garden store in California's Orange County, has deployed a 15-kW ClearEdge stationary fuel cell system to help power the facility's operations and computer systems, while the heat generated as a byproduct of converting natural gas to electricity will be used to provide a reliable heat source for the nursery's orchid area.

CFCL Fuel Cell Installed in UK Home; CFCL to Create Virtual Power Plant in Netherlands.
A Ceramic Fuel Cells Limited BlueGen fuel cell was installed in a four bedroom family home in Crest Nicholson's Noble Park development on the outskirts of Epsom, Surrey. This is the UK’s first ever installation of a microgeneration certificate scheme (MCS) accredited micro power and heat fuel cell in a new build home. CFCL is also participating, through its distribution partner BlueGeneration, in a Virtual Power Plant community in the Netherlands. A Virtual Power Plant is a cluster of distributed electricity generation units, controlled and operated by a central entity using integrated software systems. The project partners have entered the first phase of the project, with three CFCL BlueGen units installed at KIWA Gastec facilities in Apeldoorn.

FCE Completes German Acquisitions.
FuelCell Energy, Inc. has completed the asset acquisition of select fuel cell assets by its German subsidiary, FuelCell Energy Solutions, GmbH, including fuel cell component inventory and fuel cell manufacturing equipment. Additionally, the previously announced joint venture with Fraunhofer IKTS has been completed, with Fraunhofer contributing intellectual property and capital to FuelCell Energy.
Solutions, GmbH in return for 25 percent ownership. The headquarters of FuelCell Energy Solutions, GmbH is based in Dresden, Germany and manufacturing is located in Ottobrunn, Germany. [http://fcel.client.shareholder.com/releasedetail.cfm?ReleaseID=686425]

PORTABLE/BACKUP POWER

Ballard/Dantherm to Deliver 50 Backup Units to China.
Ballard Power Systems, through its subsidiary Dantherm Power, will deliver 50 DBX2000 backup power systems for deployment at 30 network sites for trials at outdoor telecom base station sites throughout China – including Beijing, Shanghai, Shenzhen and Xinjiang. Custom integration and local technical support will be provided by Azure Hydrogen Energy Science and Technology Corporation (Azure), Ballard’s partner in China. [http://www.ballard.com/about-ballard/newsroom/news-releases/news06041201.aspx]

ReliOn was awarded a new patent - number 8,192,889 protects the novel architecture internal to ReliOn’s E-series product line. [http://www.relion-inc.com/news.asp#43]

MICRO FUEL CELLS

MILITARY APPLICATIONS

FUELS/REFORMERS/STORAGE

Germany Announces Major Investment in Hydrogen Infrastructure.
As part of its National Innovation Program for Hydrogen and Fuel Cell Technology (NIP), Germany’s federal government and industrial sector just announced more than €40 million (US$50 million) to build 35 new stations, increasing the current number of 15 to 50, by 2015. The Letter of Intent was signed by Federal Minister Dr. Peter Ramsauer and representatives of the companies Air Liquide, Air Products, Daimler, Linde and Total Germany. [http://media.daimler.com/dcmedia/0-921-1390467-1-1502933-1-0-0-0-0-0-11700-0-0-1-0-0-0-0-0.html]

H2 Logic Opens Hydrogen Station in Norway.
H2 Logic A/S opened a hydrogen station in Lilleström, Norway, part of the Akershus Energypark that will develop and test a wide range of hydrogen technologies. The hydrogen station will generate hydrogen from domestic waste and is the fourth hydrogen refueling station from H2 Logic in a year. [http://www.h2logic.com/com/shownews.asp?lang=en&id=397]

ITM Signs Agreement with GHR, Sells System to EADS.
ITM Power has signed an agreement with GHR Hochdruck-Reduziertehnik GmbH (GHR), part of IMI plc, to collaborate on the deployment of dual 700bar and 350bar hydrogen refueling products for the German Mobility market. The agreement will see the integration of an ITM Power hydrogen generation system with a GHR dispenser in a 700 bar hydrogen refueling for the German market. ITM Power also sold its first hydrogen generation system to the European Aeronautic Defense and Space Company (EADS) for use by its research arm, Innovation Works, in its Energy and Propulsion laboratory. The company was also awarded €360,000 (US$453,000) as part of a grant award to a consortium to develop supply chains for PEM electrolyzer components. The ELECTROHYPEM project’s, objective is to develop cost-effective components with enhanced activity and stability in order to reduce stack and system costs and to improve efficiency, performance and durability. [http://www.itm-power.com/news-item/700bar-dispensing-collaboration-in-germany/][http://www.itm-power.com/news-item/sale-of-equipment-to-eads/]
UMD Wins 2012 Student Design Contest.
The University of Maryland was declared the Grand Prize Winner of the 2012 Hydrogen Student Design Contest, capturing 91% of available points from a panel of 16 judges from industry, government and national laboratories. For the 2012 Contest, students were challenged to plan and design a tri-generation system that produces electricity, heat, and hydrogen for their university campus

DOE Research Team Wins R&D Award.
U.S. Department of Energy’s Brookhaven National Laboratory Chemist Radoslav Adzic and his research team have won a 2012 R&D 100 award from R&D Magazine for their work designing durable electrocatalysts for use in fuel cells.

FuelCon Offering New SOFC Test Product, Wins Entrepreneur Award.
FuelCon is now offering full-ceramic solid oxide testing equipment that also ensures reproducible test setups, the TrueXessory-HT. The company was also honored with the entrepreneur award for 2012 by the Free Democratic Party (FDP) regional association of Börde district in Saxony-Anhalt, Germany.

NASA Seeking Partners on SOFC R&D.
NASA/Glenn Research Center is seeking partners who can perform science investigations, research activities, technology development and demonstrations, and are interested in developing competitive proposals with GRC in response to various NASA and other Government agency solicitations. Focus areas include “High Power Density Solid Oxide Fuel Cell and Electrolysis” looking for partners to scale up the process by fabricating stacks and demonstrating the durability at the stack level. New ideas for innovative application of GRC-developed SOFC and electrolyzer for aerospace systems are also solicited as well as ideas for lightweight balance of plant for a high power density SOFC stack are sought.

Funding for Renewable Energy Proposals.
The Climate Change and Emissions Management (CCEMC) Corporation 2012 Call for Renewable Energy Proposals is seeking innovative renewable energy technologies that have a strong potential to reduce greenhouse gas (GHG) emissions when compared to energy produced from fossil fuels. CCEMC will invest up to $10 Million in qualified matching funds per project to accelerate the use of wind, geothermal, hydro, solar, biomass, energy storage and other forms of renewable energy.

Advanced Biofuels.
DOE will award $20 million to support innovative pilot-scale and demonstration-scale biorefineries that could produce renewable biofuels that meet military specifications for jet fuel and shipboard diesel using a variety of non-food biomass feedstocks, waste-based materials and algae. These projects may support new plant construction, retrofits on existing U.S. biorefineries or operation at plants ready to begin production at the pilot- or pre-commercial scale. This investment will also help federal and local...
governments, private developers and industry collect accurate data on the cost of producing fuels made from biomass and waste feedstocks.
https://eere-exchange.energy.gov/#Foald4fc2a5ec-3cc0-4c58-8e51-8768ef965113

USC Fuel Cell Challenge.
The Fuel Cell Challenge, from the USC-City of Columbia Fuel Cell Collaborative, will award students teams up to $25,000 each to solve specific problems submitted by representatives of a hydrogen or fuel cell firm.

MISCELLANEOUS

LG Invests Heavily in Rolls-Royce.
Korean company LG has invested $45 million, becoming an owner of 51%, of Rolls-Royce Fuel Cell Systems Inc. in North Canton, Ohio. Rolls-Royce is developing large-scale solid oxide fuel cell (SOFC) systems for industrial, commercial and utility use and reports are the new company, to be known at LG Fuel Cell Systems, will continue that effort.

CONFERENCES

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

Hybrid Small Fuel Cells 2012.

Neutrons for Energy; Advanced Materials for Energy Storage.
Neutrons for Energy; Advanced Materials for Energy Storage will be held September 17-19, 2012, at the Delft University of Technology, in Delft, The Netherlands. For details, go to http://neutronsforenergy.tudelft.nl.

f-cell 2012.
f-cell 2012 and Battery+Storage 2012 will be held October 8-10, 2012, at the Stuttgart Trade Fair Centre in Stuttgart, Germany. For conference information, please go to http://www.f-cell.de/englisch/home/.

Fuel Cell Seminar.

Total Energy USA.
Total Energy USA will be held November 27-29, 2012, at the George R. Brown Convention Center in Houston, Texas. For more information, please go to http://totalenergyusa.com.

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