

The Marketplace Matters Issue 27: Printer Friendly Version

The printer friendly version of the Marketplace Matters is grouped by Industry sector. In this issue you will find opportunities and information from our partners in the following sectors:

- Testing & Development
- Balance of Plant, Components, Materials and Sub Assemblies
- Military
- Stationary Power Applications
- Manufacturing
- Transportation Applications
- Marine
- Infrastructure & Hydrogen Supply
- Portable and Micro Applications
- Events
- Education and Outreach

Testing and Development

NexTech Materials Commercial Services is seeking clients for volume manufacturing and supply of custom SOFC components or constituent materials

NexTech Materials is pleased to announce the expansion of our production volume for SOFC materials and components. As an industry leader for fifteen years, NexTech develops and provides industry-leading SOFC technologies. Under the current initiative, NexTech Commercial Services provides innovative solutions to the clients seeking production volumes of powders, inks and components. The new service complements our track record of collaborative SOFC research and development. NexTech's team of scientists and engineers can provide clients a reliable and reproducible source of 'mass-customized' products for commercialization programs of any size.

http://www.fuelcellmarkets.com/nextech_materials/forming_relationships/3,1,722,18,28031.html?TMM=27

The CPI Low Carbon Energy Network is looking to expand its membership across the Hydrogen & Fuel Cell supply chain

The Low Carbon Energy Network is a continuation of the successful North East Fuel Cell Cluster and is now dedicated to enhancing the chemical process elements of the Low Carbon Energy sector in North East England. The network maintains a special interest in fuel cells and hydrogen.

We are looking to expand our membership across the hydrogen and fuel cell supply chain. If your company is interested to learn how its products and services can expand into the fuel cell & hydrogen sector, or if you are developing a technology for this sector and are looking for assistance, please contact us.

http://www.fuelcellmarkets.com/cpi/forming_relationships/3,1,7855,18,28041.html?TMM=27

Balance of Plant, Components, Materials and Sub Assemblies

Seeking Electrolyte-Supported SOFC Partners Interested in our Flexible Electrolyte Technology

ENrG Inc. specializes in the development and manufacture of ceramic membrane and coating technologies for clean energy applications such as solid oxide fuel cells (SOFC) and gas separation membranes. ENrG has completed a licensing agreement with Corning Incorporated to produce thin ceramic membranes with excellent thermal cycling performance and high durability for SOFC's. The advanced technology will allow for the commercialization of electrolyte-supported, thin profile fuel cells with robust structures and incredible tolerance to thermal shock, best suited for fuel cell stack designs.

http://www.fuelcellmarkets.com/enrg_inc/forming_relationships/3,1,9484,18,28042.html?TMM=27

High Temperature Membrane and Membrane Electrode Assemblies for Portable Proton Exchange Membrane Fuel Cell Applications

The operation of polymer electrolyte (PEM) fuel cells at temperatures above 150°C offers very significant advantages. Among others, the tolerance of the catalyst is increased allowing the use of reformed hydrogen with high CO content, the kinetics of both electrodes is enhanced and the thermal management is easier comparing to conventional PEM fuel cells. One of the main activities of ADVENT TECHNOLOGIES S.A, is focused on the systematic development and production of polymer membranes and MEAs for high temperature PEM fuel cells.

We are looking to partner with portable PEM fuel cell stack/system developers who are interested in developing High Temperature PEM fuel cells.

http://www.fuelcellmarkets.com/advent_technologies/forming_relationships/3,1,15017,18,28047.html?TMM=27

New Product Development

Cabot has a long history of creating businesses and developing performance products through working with partners and customers. We understand your needs and deliver innovative solutions by exploiting both our basic particle-related competencies along with developing innovations and partnerships. As a global performance materials company, we are constantly scouting for new opportunities. This drives us to examine trends in the world's markets and technologies, and to identify key areas where we can create value. We then work with partners and customers to create programs to address the needs in these areas through: Internal research projects driven by close external relationships, Cooperative research, including joint development programs & Other approaches, such as government programs with partners.

http://www.fuelcellmarkets.com/cabot/forming_relationships/3,1,6270,18,27799.html?TMM=27

Looking to Partner with Fuel Cell Catalyst Developers

Ilika is a science-led materials discovery company that uses high throughput techniques to significantly accelerate the discovery of new and patentable materials. Ilika provides R&D collaborations as well as technology development and materials licensing services. Ilika's technology is based upon the work of world-class scientists in the field of combinatorial chemistry and Ilika's customers have enjoyed significant increases in the productivity of their materials research programmes, typically by a factor of 10-100.

http://www.fuelcellmarkets.com/ilika/forming_relationships/3,1,1223,18,13606.html?TMM=27

Military

NDCPower is looking to partner with OEM's and Existing Power Solution Providers to the Remote Surveillance and Monitoring Market

In many remote monitoring and surveillance applications, batteries are unable to provide an ideal autonomy. NDCPower's fuel cell technology provides a cost effective means of providing reliable power for longer than batteries.. We are proud to introduce Eos, our Direct Ethanol Fuel Cell Technology, that can be used across a broad spectrum of product applications in a practical and commercially viable manner. No trade-offs.

NDCPower is looking for original equipment partners for remote surveillance and monitoring.

http://www.fuelcellmarkets.com/ndc_nanomaterials_discovery_corporation/forming_relationships/3,1,6899,18,28045.html?TMM=27

Stationary Power Applications

Seeking Engineering Partners in Generators Markets for our Natural Gas Fuelled Solid Oxide Fuel Cell Stack Modules

Staxera develops Solid Oxide Stack Modules using Natural Gas for generator applications such as telecoms base stations and residential dwellings. Traditional diesel generators require frequent maintenance (servicing and lubrication oil changes) which can cause logistical issues, particularly in remote locations. This coupled with rising diesel costs and environmental concerns is pushing operators to look for alternatives. Staxera is looking to partner with engineering and system integration partners who are interested in integrating our stack modules into generator markets

http://www.fuelcellmarkets.com/staxera/forming_relationships/3,1,15168,18,28043.html?TMM=27

Looking for Partners to Trial & Deploy our Backup Power Fuel Cell Technology into the Eastern European UPS and Telecoms Market

Traditional forms of backup / standby power have their limitations. Generators are notoriously unreliable and require frequent maintenance. Batteries require space and cooling and have a limited autonomy. Particularly in remote locations, fuel cells offer a range of benefits (see Benefits) for Eastern European countries. Dantherm Power is looking for telecom partners to work with on taking our fuel cell backup power products to market.

http://www.fuelcellmarkets.com/dantherm_power/forming_relationships/3,1,11472,18,28035.html?TMM=27

Logan Energy is Looking to Expand it's Portfolio of Fuel Cell Partners

Logan Energy is the established expert on energy solutions harnessing the power of hydrogen & fuel cells to provide clean energy solutions. Being independent of both manufacturer and technology enables Logan Energy to provide impartial advice on the alternative energy option that today's hydrogen technologies offer. It is this independence that allows us to deliver the right solution for each and every application.

http://www.fuelcellmarkets.com/logan_energy/forming_relationships/3,1,27362,18,28055.html?TMM=27

Looking for Partners to Develop Waste to Energy Projects in the USA Using our Low Cost Fuel Cell Technology

AFC energy are looking to build upon the success and technological advancements made within the Energy from Waste (EfW) industry by offering a more efficient gas to electricity process. AFC's Alkaline fuel cell technology has been developed for the chlor-alkali industry for onsite power production through the conversion of Hydrogen directly to Electricity onsite.

http://www.fuelcellmarkets.com/afc_energy/forming_relationships/3,1,13903,18,27808.html?TMM=27

Gas Utilities: Highly Efficient and Non-Combustion Based System for Natural Gas Utility Letdown Stations

FuelCell Energy, Inc.TM, in cooperation with Enbridge, Inc., introduces the Direct FuelCell-Energy[®] Recovery GenerationTM ("DCF-ERG") system, a hybrid fuel cell/gas turbine solution for use in gas pipeline letdown applications. The DFC-ERG system is a hybrid power plant ideally suited for urban settings and utilizes energy that would otherwise be lost. The system comes in varying sizes to address a multitude of pressure reduction and flow conditions. The DFC-ERG system offers an electrical efficiency of over 60%, negligible emissions of pollutants such as nitrogen oxides (NOx) and sulphur oxides (SOx), and dramatically reduced CO₂ greenhouse gas emissions in comparison to traditional fossil fuel technologies.

http://www.fuelcellmarkets.com/fuel_cell_energy/forming_relationships/3,1,11275,18,27444.html?TMM=27

IdaTech is Looking for Distributor and Agent Partners for its ElectraGenTM family of Backup Power Fuel Cell Systems in Korea and Taiwan

IdaTech, LLC, is looking for partners to assist with the sales and distribution of the company's backup power Fuel Cell systems in Korea and Taiwan..

http://www.fuelcellmarkets.com/idatech/forming_relationships/3,1,599,18,27561.html?TMM=27

Nuon Project Update

Ceramic Fuel Cells Limited, (AIM / ASX: CFU) a leading developer of high efficiency and low emission microgeneration products for homes, gives an update on its product development project with Nuon for the Benelux market.

The parties have completed a joint review of the project to develop micro combined heat and power (mCHP) products based on Fuel cell technology. During the project a semi-integrated mCHP unit was installed and operated.

http://www.fuelcellmarkets.com/ceramic_fuel_cells/news_and_information/3,1,443,1,28048.html?TMM=27

Manufacturing

True High Quality Mass Production of Stainless Steel Separator Plates for Molten Carbonate Fuel Cells

Whatever bipolar plate and pattern you need – we deliver. And we do it now. Highly detailed, high quality molten carbonate fuel cell separator plates produced in a new way – at a new rate – and at a better price than any other supplier

Cell Impact offers production of thin components with surfaces containing a fine pattern or flow field, production that allows rapid high precision forming.

http://www.fuelcellmarkets.com/cell_impact/forming_relationships/3,1,13659,18,28053.html?TMM=27

Transportation Applications

Looking for Fuel Cell and Hydrogen ICE Vehicles for the H2seed Project

Comhairle nan Eilean Siar wishes to procure a number of fuel cell or hydrogen ICE vehicles as part of the Hebridean Hydrogen Park Project. The vehicles will be passenger or utility vehicles suited to the operational requirements of the Comhairle. This includes: Passenger vehicles, Small and medium sized vans, Utility vehicles and Buses. We are seeking expressions of interest from companies and organisations willing to supply, or engage in the development and deployment of: Road-legal hydrogen Fuel Cell or ICE vehicles; or, Hydrogen conversion systems for existing ICE vehicles.

http://www.fuelcellmarkets.com/energy_innovation_zone/forming_relationships/3,1,14514,18,27773.html?TMM=27

Dutch hydrogen fuel cell system in German city bus

The German Minister of Economic Affairs of the federal state of North Rhine Westphalia (Germany), signs a contract on February 17 for the delivery of two environmentally friendly city buses. It is worldwide the first time that urban buses will be utilized with hydrogen fuel cell/electric drive lines. The Dutch company NedStack fuel cell technology BV (NedStack) delivers the hydrogen fuel cell systems. The city bus will be 18.5 meters long. For such hybridized vehicles this is a milestone. The maximum length was previously 12 meters. The buses have a capacity of 105 persons. The delivery of the two buses to the city of Cologne is scheduled early 2010. The buses will be used on 16-21 May 2010 at the 18th World Hydrogen Energy Conference 2010 in Essen, Germany.

http://www.fuelcellmarkets.com/nedstack/news_and_information/3,1,1710,1,27815.html?TMM=27

The future of motoring

As the UK Prime Minister promises support for the electric vehicle industry, Green MotorSport asks whether he is backing the right people. The British electric vehicle industry has traditionally led the world and already has the finest electric drive trains, but we have to wait another two years for the automotive industry to get its act together before grants are available for people wanting to buy electric vehicles. Competition from innovative energy industries could conserve the UK's diminishing fuel resources, create new jobs and make Britain a leading exporting country again!

http://www.fuelcellmarkets.com/green_motorsport/news_and_information/3,1,388,1,28052.html?TMM=27

Marine

Looking to Form Partnerships with Organisations in the Marine Industry

Hydrogen and fuel cells bring a number of advantages to the marine sector, and are ready for trials and demonstrations in a number of marine applications. The Marine Hydrogen & Fuel Cell Association (e.V.) acts as a platform for meetings and projects as well as for the exchange of information between hydrogen and fuel cell industries and the marine industry. We are looking to engage companies in the marine industry to help them understand the benefits and realities of hydrogen and fuel cell technologies.

http://www.fuelcellmarkets.com/marine_hydrogen_fuel_cell_association/forming_relationships/3,1,12828,18,13822.html?TMM=27

Infrastructure & Hydrogen Supply

Looking to Become a Methanol Distribution Partner for Fuel Cell Developers

Hayman Limited specialises in the blending, denaturing, packing and distribution world wide, of a large range of products (including Methanol) to standard or customer specifications. Hayman Ltd has an established worldwide distribution network and is looking to partner with fuel cell companies using methanol as their fuel, to provide them with packaged global methanol supplies. We have the ability to ship to almost anywhere in the world.

http://www.fuelcellmarkets.com/hayman/forming_relationships/3,1,13694,18,13795.html?TMM=27

Looking for Partners and Projects for our New Electrolysers

The Pure Energy Centre has developed a state of the art electrolyser technology, which we believe significantly outperforms the competition. We are looking for additional partners to work with us on taking this to market.

http://www.fuelcellmarkets.com/pure/forming_relationships/3,1,11952,18,27586.html?TMM=27

Proton Energy Systems Achieves Breakthrough in High Pressure Hydrogen Technology

Proton Energy Systems today announced a major technological milestone involving its advanced high pressure, proton exchange membrane (PEM) electrolysis technology. Proton has demonstrated more than 18,000 hours of hydrogen generation at 2,400 psi, without any external mechanical compression.

http://www.fuelcellmarkets.com/pure/forming_relationships/3,1,11952,18,27586.html?TMM=27

Portable and Micro Applications

Seeking Partners to Develop the Markets for 200-500 Watt Fuel Cell Power Systems

With rising fuel prices, health & safety regulations and environmental restrictions there is increased pressure to look at technologies with greater fuel diversity, less harmful emissions, better fuel efficiency, lower weight and quieter operation. ND Energy's solid oxide fuel cell generator provides all of these benefits and more. Having already established our 50 and 60 watt fuel cell products, we are looking for partners to work with us to develop products in the 200 – 500W range across a range of applications.

http://www.fuelcellmarkets.com/nano_dynamics_energy/forming_relationships/3,1,13868,18,27427.html?TMM=27

Events

Fuel cells and electric mobility – tomorrow's technologies opening doors in today's crisis

- 15th Group Exhibit Hydrogen + Fuel Cells (H₂+FC), Europe's largest hydrogen and fuel cell expo
- 148 Exhibitors from 22 nations in Energy Hall 13, Booth G 66
- Fuel cell-powered vehicles in the Ride + Drive outdoor area
- Press conference (in German) on April 20th at 2:30 pm with the German Minister of Transport Wolfgang Tiefensee

http://www.fuelcellmarkets.com/fair_pr/news_and_information/3,1,828,1,28051.html?TMM=27

Eleventh Grove Fuel Cell Symposium in September

Elsevier, world-leading publisher of scientific, technical and medical information products and services is pleased to announce that it will hold the Eleventh Grove Fuel Cell Symposium on 22 – 24 September 2009. International delegates will be meeting to discuss the latest developments in fuel cell and hydrogen technologies as governments try to meet new carbon emission commitments. Taking place in Westminster, London, the conference will be close to the houses of parliament.

http://www.fuelcellmarkets.com/grove_fuel_cell_symposium/news_and_information/3,1,910,1,28049.html?TMM=27

CALL FOR ABSTRACTS

Take part in one of the most notable fuel cell conferences in the world.

Submit your 2009 Fuel Cell Seminar & Exposition abstract TODAY!

http://www.fuelcellmarkets.com/fuel_cell_seminar/news_and_information/3,1,9141,1,28036.html?TMM=27

RECORD ATTENDANCE INDICATES GROWING INTEREST IN HYDROGEN

Interest in hydrogen is greater than ever as evidenced by the record breaking number of participants at the NHA Conference and Hydrogen Expo. Held for the first time in Columbia, South Carolina March 30 to April 3, 2009, the event attracted 2,000 public visitors in addition to the more than 700 registered attendees-nearly twice as many as previous years. "Despite the challenges of working in a tightening economy, the event is a true testament to the strength and vitality of the hydrogen industry and the public's extremely high interest in alternative fuels," noted Jeffrey Serfass, President of the National Hydrogen Association.

http://www.fuelcellmarkets.com/national_hydrogen_association/news_and_information/3,1,27253,1,28032.html?TMM=27

Hydrogen + Fuel Cells 2009 - Conference Program Released

The Technical Program Committee is pleased to announce the completion of the preliminary Conference Program for HFC2009.

A record number of abstracts were received this year - an increase of more than 50% than were received for HFC2007. The quality and quantity of the abstracts reflects the international recognition that HFC2009 has earned in both the business and science communities.

http://www.fuelcellmarkets.com/hfc2009/news_and_information/3,1,27544,1,28050.html?TMM=27

Education and Outreach

Fuel Cell Power : No 36 Spring 2009

At an international conference in Birmingham, manufacturers and users outlined progress in early markets and explained the action they are taking to bring hydrogen and fuel cell technologies into the mainstream.

http://www.fuelcellmarkets.com/fuel_cell_power/news_and_information/3,1,6250,1,28054.html?TMM=27