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FUEL CELL CONNECTION – June 2004 Issue

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Administration

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**News on U.S. Government Fuel Cell Programs**  
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1. NETL Opens Fuel Cell/Turbine Hybrid Research Facility

DOE's National Energy Technology Laboratory has opened the Hybrid Performance Facility, called the Hyper facility, to develop control strategies for the reliable operation of fuel cell/turbine hybrid power systems. The Hyper facility and modeling results will be available for public research collaboration, which can be arranged under a variety of programs including visiting scholar programs or Cooperative Research and Development Agreements.

http://www.fe.doe.gov/news/techlines/04/tl_hyperfacility.html

2. DOE Solicits Public Input on Carbon Sequestration Program

The Department of Energy held eight meetings around the country to get public input on the environmental impacts of its Carbon Sequestration program, which includes the FutureGen project to develop advanced coal-fueled power plants that generate both electricity and hydrogen. DOE plans to complete a draft programmatic environmental impact statement (PEIS) by Summer 2005, and will revisit the meeting locations for further public input. Summaries and/or transcripts from the recent meetings will be provided on the National Energy Technology Laboratory website.

http://www.fe.doe.gov/news/techlines/04/tl_sequestration_eis.html

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**New Government Publications Posted**  
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3. DOE Hydrogen, Fuel Cell Program Review Proceedings Online

Proceedings and presentations from the 2004 Annual Program Review for DOE's Hydrogen, Fuel Cells & Infrastructure Technologies Program are now available online. The meeting was held May 24-27, 2004, in Philadelphia, Pennsylvania.

http://www.eere.energy.gov/hydrogenandfuelcells/2004_annual_review.html

4. Solid-State Energy Conversion Alliance Program Review Proceedings Online

Proceedings and presentations from the 2004 SECA Annual Workshop and Core Technology Program Peer Review Workshop are now available online. The workshops were held May 11-13, 2004, in Boston, Massachusetts.

<http://www.netl.doe.gov/publications/proceedings/04/seca-wrkshp/seca-wrkshp04.html>

5. Fuel Cell Vehicle Survey 2003 Published

The Breakthrough Technologies Institute, with support from the Department of Energy, has published "Fuel Cell Vehicle Survey 2003," featuring a snapshot of the global fuel cell market as it existed at the end of 2003. It summarizes the efforts of governments and industries to develop and demonstrate fuel cell vehicles.

http://www.eere.energy.gov/hydrogenandfuelcells/technical_info.html

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**RFP/Solicitation News**  
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6. Third Frontier Fuel Cell Program Solicitation Open

Ohio's Third Frontier Fuel Cell Program has issued a solicitation to provide grants to support the growth of the state's fuel cell industry through collaborations that involve Ohio higher education institutions, non-profit research organizations, and Ohio companies. Projects must focus on research and development that addresses technical and cost barriers to commercialization and adapting fuel cell components produced in Ohio for use in fuel cell systems. Up to \$3.5 million is available under this solicitation. A Letter of Intent is required and due by July 2, 2004.

<http://www.thirdfrontier.com/FuelCellRFP.asp>

7. Texas NRCC Announces New Technology R&D Program Funding

Grant applications are being accepted for the New Technology Research and Development Program of the Texas Natural Resource Conservation Commission, which notes that fuel cells and catalysts are eligible technologies. Goals of the program are to promote the development of technologies to help solve air quality problems in Texas. Information on the total amount of funding available for this announcement is not currently available. An Informational Grant Workshop will be held June 16, 2004, in the Austin offices of the Texas Commission on Environmental Quality. Deadline for grant applications is July 7, 2004.

<http://www.tnrcc.state.tx.us/oprd/sips/research.html>

8. Solicitation to Fund University Research on Nuclear Hydrogen Generation

The Nuclear Energy Research Initiative has issued a solicitation for Advanced Nuclear Research at Universities, which lists hydrogen generation as a topic of interest to the program. Approximately \$3.7 million is available under this solicitation. The deadline for applications is July 16, 2004. <http://www.fedgrants.gov/Applicants/DOE/PAM/HQ/DE-PS07-04ID14551/Grant.html>

9. NASA Announces Coming Solicitation for Fuel Cells, Hydrogen Technologies for Aircraft

NASA's Glenn Research Center will solicit proposals in the form of a NASA Research Announcement (NRA) for proposals on R&D for fuel cell and hydrogen storage technologies for aircraft. Technologies will be targeted across the range of aircraft types, from unmanned aerial vehicles to commercial transports. The anticipated release date of the Low Emissions Alternative Power (LEAP) Announcement is on or about July 6, 2004, with an anticipated offer due date of on or about October 6, 2004. Further details will be contained in the solicitation when it is posted online. <http://prod.nais.nasa.gov/cgi-bin/eps/synopsis.cgi?acqid=110873>

10. DARPA Advanced Technology Office BAA Open

The Defense Advanced Research Projects Agency is accepting proposals for its Broad Agency Announcement (BAA). Areas of specific interest include concepts for "underwater microbial fuel cell and gas extraction technologies and systems" as well as "energy at sea". Respondents to this BAA are strongly encouraged and advised to submit Executive Summaries by October 15, 2004. Proposal Abstracts are due October 29, 2004, and Full Proposals are due November 26, 2004.

<http://www.eps.gov/spg/ODA/DARPA/CMO/BAA04-09/SynopsisP.html>

11. Naval Research Laboratory BAA Topic Looks at Fuel Cells for Small Air Vehicles

The Naval Research Laboratory's Broad Agency Announcement (BAA) includes a topic on Small Air Vehicles Development Technology, which includes fuel cells among technologies included in its "Propulsion/Energy Systems" area of interest. Awards under this Announcement may take the form of a contract, grant or cooperative agreement. Prospective applicants should first submit an initial proposal. The BAA is open through December 31, 2004.

<http://heron.nrl.navy.mil/contracts/baa.htm>

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**Contract / Funding Awards**  
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12. Naval Research Lab Awards Phase II Funding to Proton Energy Systems

The Naval Research Laboratory has awarded \$1.1 million in Phase II funding to Proton Energy Systems for continuation of its development of a 1 kW-scale prototype system for defense and aerospace applications.

<http://phx.corporate-ir.net/phoenix.zhtml?c=122665&p=irol-newsArticle&IE=577202&highlight=>

13. Army CERL Awards Contract to ReliOn

The US Army Corps of Engineers Construction Engineering Research Laboratory has awarded a \$363,781 contract to ReliOn for installation and testing of its Independence 1000™ fuel cells at nine application sites at three military facilities. The first installation is scheduled for June at Fort Lewis Army Base in Washington State.

http://www.avistalabs.com/news_over.asp

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**University Activities**  
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14. DOE, GM Announce CHALLENGE X Competition for Universities

The Department of Energy and General Motors announced the participants in the CHALLENGE X competition, in which university engineering students across North America will redesign a Chevrolet Equinox SUV to increase fuel efficiency and reduce emissions. GM will supply each team with \$10,000 in seed money, along with an Equinox.

http://www.energy.gov/engine/content.do?PUBLIC_ID=15862&BT_CODE=PR_PRESSRELEASES&TT_CODE=PRESSRELEASE

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**Industry Headlines**  
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15. USPS to Lease GM Fuel Cell Vehicle for Mail Delivery in Washington, DC

The US Postal Service (USPS) will lease a fuel cell vehicle from General Motors to deliver mail in and around Washington, DC. The USPS plans to begin using the vehicle in September 2004, when a hydrogen pump is expected to be completed at a retail gas station in the city. There have been recent protests by neighbors of the planned hydrogen pump station, who are concerned about its proximity to a school.

http://www.thecommondenominator.com/061104_update1.html

<http://media.gm.com/servlet/GatewayServlet?target=http://image.emerald.gm.com/gmnews/viewpressreldetail.do?domain=2&docid=5140>

16. New Study Says Hydrogen Economy Unlikely to Face Legal Liability

A new legal analysis by the Breakthrough Technologies Institute concludes that the transition to a hydrogen economy need not be blocked by product liability concerns. Studies have shown many properties of hydrogen are favorable compared to current fuels, and the experience of other fuels like gasoline, natural gas and even electricity suggest that widespread accidents, fires and even

deaths are accepted as part of the cost of using the fuels. A presentation on the analysis is available online. The complete legal analysis will be published by the end of the year.
<http://www.fuelcells.org/info/HydrogenandtheLaw.pdf>

17. Voller Energy to Launch Portable Fuel Cell Generator

On June 30, Voller Energy will officially launch the updated VE100 v2 portable fuel cell power generator. The updated system is smaller and lighter than the previous version, while delivering more power output and featuring a new LPG reformer that enables fueling by either stored hydrogen or hydrogen from propane or butane. The VE100 v2 can be used for charging cordless tool batteries, remote power for temporary buildings, power backup, or for RVs, boats, yachts, camping, and military uses. <http://www.voller.com>

18. DaimlerChrysler Delivers Fuel Cell Cars to Customers in Berlin

DaimlerChrysler has delivered F-Cell fuel cell vehicles to Deutsche Telekom and BEWAG/Vattenfall Europe for their fleets, which will be tested in regular operation. DaimlerChrysler expects a total of sixty Mercedes-Benz A-Class F-Cell vehicles will be in the hands of customers in Japan, Germany, Singapore and the USA by the end of 2004.
http://wwwsg.daimlerchrysler.com/SD7DEV/GMS/TEMPLATES/GMS_PRESS_RELEASE/0,2941,0-318-56501-1-1-text-1-0-Media-0-0-0-0,00.html

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Press releases and story ideas may be forwarded to Bernadette Geyer, editor, for consideration at bernie@usfcc.com.

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**About Fuel Cell Connection**  
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The Sponsors

U.S. Fuel Cell Council -- The U.S. Fuel Cell Council is the business association for anyone seeking to foster the commercialization of fuel cells in the United States. Our membership includes producers of all types of fuel cells, as well as major suppliers and customers. The Council is member driven, with eight active Working Groups focusing on: Codes & Standards; Transportation; Power Generation; Portable Power; Stack Materials and Components; Sustainability; Government Affairs; and Education & Marketing. The Council provides its members with an opportunity to develop policies and directions for the fuel cell industry, and also gives every member the chance to benefit from one-on-one interaction with colleagues and opinion leaders important to the industry. Members also have access to exclusive data, studies, reports and analyses prepared by the Council, and access to the "Members Only" section of its web site.
[\(http://www.usfcc.com/\)](http://www.usfcc.com/)

National Fuel Cell Research Center -- The mission of the NFCRC is to promote and support the genesis of a fuel cell industry by providing technological leadership within a vigorous program of research, development and demonstration. By serving as a locus for academic talent of the highest caliber and a non-profit site for the objective evaluation and improvement of industrial

products, NFCRC's goal is to become a focal point for advancing fuel cell technology. By supporting industrial research and development, creating partnerships with State and Federal agencies, including the U.S. Department of Energy (DOE) and California Energy Commission (CEC), and overcoming key technical obstacles to fuel cell utilization, the NFCRC can become an invaluable technological incubator for the fuel cell industry.

[\(http://www.nfcrc.uci.edu/\)](http://www.nfcrc.uci.edu/)

National Energy Technology Laboratory -- The National Energy Technology Laboratory is federally owned and operated. Its mission is "*We Solve National Energy and Environmental Problems.*" NETL performs, procures, and partners in technical research, development, and demonstration to advance technology into the commercial marketplace, thereby benefiting the environment, contributing to U.S. employment, and advancing the position of U.S. industries in the global market.

<http://www.netl.doe.gov>