

## **California Hydrogen Business Council September 2004 Report**

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1. Rescheduling of September 17 Sacramento meeting of the California Hydrogen Business Council to November 12 in Diamond Bar
2. UPS puts hydrogen fuel cells in larger vans
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1. Rescheduling of September 17 Sacramento meeting of the California Hydrogen Business Council to November 12 in Diamond Bar  
After the September 17 meeting was scheduled, other meetings were scheduled that have placed high demands on our members' time: South Coast AQMD in Palm Desert, ongoing meetings of the Hydrogen Highway teams and blueprint panel, and the California Fuel Cell Partnership Road Rally also on September 16 and 17.

SINCE WE HAVE HAD MANY POSITIVE COMMENTS RELATING TO THE CONTENT OF THE CANCELLED PROGRAM, WE WILL BE ASKING EACH OF THE PRESENTERS IF THEY WOULD BE WILLING TO SPEAK AT OUR UPCOMING NOVEMBER 12, 2004 MEETING SCHEDULED FOR THE SOUTH COAST AQMD FACILITIES IN DIAMOND BAR, CA. SAVE THE DATE OF NOVEMBER 12.

2. UPS puts hydrogen fuel cells in larger vans  
UPS has announced the US deployment of its first three large package delivery vehicles utilizing hydrogen fuel cells for power. Chris Mahoney, UPS senior vice president of global transportation services announced "UPS now is jumping from a small fuel cell car to a medium-duty truck. We will continue the rapid application of this technology in hopes that in the near future, we can deploy zero-emission engines across our fleet of 88,000 vehicles." Mahoney made his remarks at a press conference in Los Angeles where the first fuel cell Dodge Sprinter is being deployed. The remaining two Sprinters will be deployed in Sacramento and Ann Arbor, Michigan. "Our two test programmes showed the on-road reliability of fuel cell vehicles is excellent, equivalent to our current fleet," said Mahoney. The vehicles in their new configuration also offer a 10% increase in cargo capacity compared to the diesel-powered Sprinters now in use by UPS, and the fuel cell technology eliminates the need to house an engine in the front of the vehicle, making it easier to explore new automotive designs, he added.

<http://www.fuelcelltoday.com/FuelCellToday/IndustryInformation/IndustryInformationExternal/NewsDisplayArticle/0,1602,4894,00.html>

### 3. SunLine receives permit for HyRadix hydrogen reformer

The HyRadix Adéo™ hydrogen generator in service at SunLine Transit in Thousand Palms, Calif, recently received final permitting approval from the Riverside County Fire Department. The HyRadix reforming technology produces low-cost hydrogen in an unattended operation. SunLine will blend the hydrogen from the HyRadix Adéo with compressed natural gas economically extending the usable life of their compressed natural gas bus fleet. In addition, the hydrogen will be used for fuel cell and hydrogen internal combustion engine vehicles.

<http://www.hyradix.com/news.html>

### 4. Integrated Hydrogen Fueling and Stationary Power live in Las Vegas

Air Products, Plug Power, Inc. and the City of Las Vegas teamed with the U.S. Department of Energy (DOE) in a cost-shared project to design, develop, install and operate the world's first hydrogen energy station in Las Vegas, Nevada. A hydrogen generator produces hydrogen through the reforming and purification of natural gas. The natural gas is provided to the site by pipeline. The hydrogen not used for fueling vehicles is directed to a 50-kilowatt PEM fuel cell that generates electric power. The electrical output from the fuel cell is supplied to the Las Vegas electrical grid system for general consumer use.

<http://www.airproducts.com/Products/LiquidBulkGases/HydrogenEnergyFuelCells/YourIndustry/LasVegasProject.htm>

### 5. \$12 million of new venture capital to DMFC firm

Neah Power Systems, Inc., an emerging leader in micro fuel cell technology raised \$12 million in equity funding from Castile Ventures, WestAM, Frazier Technology Ventures, Alta Partners, and Intel Capital. The company is developing a silicon-based direct methanol fuel cell (DMFC) aimed at providing longer-lasting power solutions for mobile electronic devices, such as notebook PCs, camcorders, and advanced communications products.

<http://www.neahpower.com/news/pressreleases/NPSCompletesFunding.shtml>

### 6. Hydrogen Highway Blueprint

The blueprint for the California Hydrogen Highway is taking shape. Read the draft reports. Get the latest schedule of meetings. Many are now available in web cast form for viewing from your internet browser. On September 15 and October 7 are major meetings with web casts.

<http://www.hydrogenhighway.ca.gov/implement/implement.htm#upcoming>

### 7. Cal EPA Secretary stands behind 30% cut in greenhouse gas emissions, fuel efficiency, and hydrogen

Terry Tamminen, Cal EPA Secretary, in a recent interview discussed educating the public about hydrogen and reducing green house gas emissions: "People will be seeing messages at gas stations, teaching them how to conserve as much as 20 percent of their

fuel regardless of what they drive. In the mid-term, we're working to get more fuel-efficient vehicles into the fleet. The state [government] itself has 70,000 vehicles. As the natural turnover occurs, we're going to get more hybrids and fuel-efficient vehicles into that fleet and then promote them for personal and business choices as well.... And all of this is as a bridge to truly clean fuels, and that's hydrogen." For the complete interview: <http://msnbc.msn.com/id/5798109/>

#### 8. New Issue of H2 Nation magazine

The latest issue of H2 Nation takes you on a ride in the Honda FCX, details hydrogen from renewables, announces new products, and interviews key people.  
<http://www.h2nation.com/>

#### 9. CHBC Silver members

California Hydrogen Business Council gives a big thanks to our growing list Silver Members who are major contributors to our growth and success. To learn about our 25 Silver Members:  
<http://www.californiahydrogen.org/page.cfm?content=33>

#### 10. CHBC Board of Directors

<http://www.californiahydrogen.org/page.cfm?content=10>  
To contact the board members, please click [info@californiahydrogen.org](mailto:info@californiahydrogen.org)

#### 11. Be a member of the California Hydrogen Business Council

Be involved with the leaders in making the hydrogen economy a reality. The California Hydrogen Business Council (CHBC) provides the link between hydrogen-technology developers, businesses, energy leaders, government, and infrastructure providers. CHBC is a non-profit organization. You are invited to join the California Hydrogen Business Council (CHBC). CHBC is a non-profit organization, which offers a common meeting ground for discussing the technologies, methodologies, and opportunities in the hydrogen economy. Individual membership is \$200 per year. Organizations can send five people per meeting at lower rates, plus benefit from added marketing visibility by being Silver Members for \$1,000 per year. To join, visit our website or call (562)493-4014 with your credit card.

We welcome important news from our members for inclusion on our website and in next month's report. Please send to:

[info@californiahydrogen.org](mailto:info@californiahydrogen.org)

Thank you for helping build a great organization.

CHBC Report Publisher and Membership Chairman  
John Addison