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1. Welcome New Members

CHBC welcomes new Silver member Southern California Edison (SCE) and Individual member Robert Craig McManigal. We appreciate your support!
<http://www.sce.com>

2. Dr. Paul MacCready Headlines Stellar Program at CHBC's September 16 General Meeting

Our fall meeting at South Coast Air Quality Management District is not to be missed! The day-long conference (8 a.m. to 5 p.m.) features a keynote by Paul MacCready, PhD, founder and chairman of AeroVironment, as well as updates on hydrogen activities at the California Hydrogen Highway, South Coast Air Quality Management District, and University of California - Irvine. It also features the first panel of speakers with hydrogen "Products for Sale!" The meeting will be at the South Coast Air Quality Management District. Register early to save \$\$!
<http://www.californiahydrogen.org/page.cfm?content=48>

3. California Hydrogen Highway Program Enters New Phase

Over the last year and a half, the California Hydrogen Highway Blueprint Plan development effort, co-led by Shannon Baxter-Clemmons, PhD and Daniel Emmett, has been written, presented and approved by the Governor's Office. Now comes the task of implementing the plan. AnnaLisa Bevan, known to many in the industry from her role as manager of the ZEV Implementation Section of the California Air Resources Board (ARB), has been chosen to lead this critical next phase. Baxter-Clemmons, who is Government Liaison to the California Hydrogen Business Council's (CHBC) board of directors, will continue to work on technical and business aspects of the California Hydrogen Highway program, and continue to serve in the Office of the Secretary of Cal/EPA. Bevan, in her new role as program manager of the implementation phase of the Hydrogen Highway, will make her first presentation to the industry at CHBC's September 16 General Meeting at South Coast Air Quality District in Diamond Bar. The Hydrogen Highway program will

be conducted out of ARB offices. Daniel Emmett will continue his activities during the implementation phase of the Hydrogen Highway program, working closely with both Shannon Baxter-Clemmons and AnnaLisa Bevan.

4. Energy Policy Act of 2005

The House and Senate quickly passed the conference version of the energy bill, sending it on to the White House for signature. In general, the bill: a) incentivizes more production through generous subsidies (some \$14.5 billion) to the energy industry, but with some increasing emphasis on renewables; b) invests heavily in long-term, high-ticket technologies (hydrogen, fusion, clean coal, next-generation nuclear); c) does essentially nothing for the short- to mid-term to reduce the consumption of petroleum. Three of the more egregious omissions in the bill are: 1) the failure to increase fuel economy requirements, 2) the failure to set any sort of target or timeline for reductions in petroleum use; 3) the failure to set any sort of quantitative target or timeline for the reduction of greenhouse gas emissions.

<http://www.worldchanging.com/archives/003220.html>

5. Hydrogenics Supplying FC Power Modules for American Power Conversion's New InfraStruXure™

Hydrogenics Corp. is supplying fuel cell power modules to American Power Conversion Corp., a leading global supplier of high availability systems for network-critical physical infrastructure (NCPI), for its new InfraStruXure™ with Integrated Fuel Cells System. In November 2004, Hydrogenics announced that it had received a follow-on order for 25 fuel cell power modules to be incorporated into back-up power products from one single OEM customer. Hydrogenics now reports that APC is the previously undisclosed customer for this order for 25 HyPM™ XR back-up power units - the largest commercial order for fuel cell products in Hydrogenics' history.

http://www.hydrogenics.com/ir_newsdetail.asp?RELEASEID=165912

6. Ballard Signs Agreement to Sell German Subsidiary to DaimlerChrysler and Ford

Ballard Power Systems, DaimlerChrysler AG, and Ford Motor Company have signed an agreement for the previously announced sale of Ballard's German subsidiary, Ballard Power Systems AG (BPSAG), to DaimlerChrysler and Ford. "Completing this sale will have four key benefits to Ballard," said Dennis Campbell, Ballard's president and chief executive officer. "First, it provides immediate cash benefits. Second, our committed and outstanding share capital is reduced by 14 per cent on a fully diluted basis. Third, it initiates the Fourth Alliance Agreement and the next-generation development agreements with our Alliance Partners, Ford and DaimlerChrysler, under which our partners will fund up to USD\$59 million for the development of our next generation vehicular fuel cell and electric drive system. Finally, by divesting BPSAG to our Alliance Partners, we can focus on our core competency, fuel cell development, and on reaching the targets outlined in our Technology 'Road Map'."

<http://www.ballard.com>

7. Hydrogen Road Rally September 29 to October 1

The California Fuel Cell Partnership's Road Rally IV will be held September 29-October 1 in Northern CA. If you have customers who would benefit from riding in a hydrogen powered fuel cell car and learning about sustainable energy and zero-emission vehicles,

bring them along. Stops are planned in Berkeley, Oakland, San Jose, Palo Alto and San Francisco.

<http://www.cafcp.org/events.html>

8. Transition to Hydrogen would Prevent Millions of Cases of Respiratory Illness

Sponsored by the Global Climate and Energy Project at Stanford and by NASA, the Science study compared emissions that would be produced in five cases--if all vehicles on the road were powered by: 1) conventional internal-combustion engines; 2) a combination of electricity and internal combustion of gasoline, as in hybrid vehicles; 3) hydrogen generated from wind electrolysis; 4) hydrogen generated from natural gas; and 5) hydrogen generated from coal gasification.

http://www.eurekalert.org/pub_releases/2005-06/su-pf062305.php

9. California Stationary Fuel Cell Collaborative Meeting August 31

The next meeting of the California Stationary Fuel Cell Collaborative (CaSFCC) will be held in the Cal/EPA building in Sacramento on August 31st from 9:30 a.m. to 4:00 p.m. The full agenda includes highlights of recent Collaborative activities, discussion of plans for moving forward, and a presentation from the Air Resources Board on the next steps for the implementation of the Hydrogen Highway Initiative. A detailed agenda will be available prior to the meeting. In addition, a meeting will be held on the afternoon of August 30th in the Governor's Chambers for those who have committed to Director and Associate Director membership in the Collaborative and for the Core Group contributors. A separate invitation will be sent to invitees. For more details, contact Ron Friesen, executive director, rfriesen@arb.ca.gov.

10. Hybrid Fuel Cell Technologies Colloquium September 7-8, 2005

ICEPAG is an annual two-day international fuel cell hybrid colloquium organized by the National Fuel Cell Research Center (NFCRC) in collaboration with the U.S. Department of Energy (DOE); the European Union (EU); the United Nations (UN); and the Pacific Rim Consortium on Energy, Combustion, and the Environment (PARCON). The 2005 colloquium emphasizes hybrid fuel cell systems that range from 15kW to 300MW; are fueled by natural gas, coal, and renewable sources; and feature a breadth of technological concepts (including chemical hybrids) and applications (residential, stationary power, and mobile power). Particular attention is directed to: 1) the emerging international activity in fuel cell hybrids, hybrid programs, and hybrid technology; 2) the development of the international market for hybrid fuel cell technologies, and 3) the potential for cooperation and collaboration among participating countries. Hybrid systems provide an unusually high fuel-to-electricity efficiency with ultra-low emission and are, as result, attractive for future applications including distributed generation, central power plant generation, and ship, locomotive, and aircraft power.

<http://www.nfcrc.uci.edu/ICEPAG2005/DEFAULT.HTM>

11. Grove Fuel Cell Symposium

Review the latest technological advances and developments in fuel cell applications across all market sectors at the Ninth Grove Fuel Cell Symposium, October 4-6, 2005, in London, United Kingdom. Over 50 expert presentations are supplemented by a major exhibition and fuel cell demonstration area. Agency Secretary of CalEPA Alan Lloyd, PhD, will also be honored at the event with the award of the Grove Medal. Register as an exhibitor or attendee.

<http://www.grovetfuelcell.com>

12. CHBC 2005 Meeting Dates - Save These Dates

September 16 - SCAQMD, November 18 - So Cal Location TBD. Please note, we are setting our dates for 2006. If you know of industry meetings that are already scheduled, please email the info to info@californiahydrogen.org so we don't cause unintentional conflicts! Thank you.

13. CHBC Silver Members

CHBC gives a big thanks to our growing list Silver Members who are major contributors to our growth and success. Click here to learn about our Silver Members.

<http://www.californiahydrogen.org/page.cfm?content=33>

14. 2005 CHBC Board of Directors

President - Henry Wedaa; Vice President - Paul Scott, ScD; Secretary - Josh Mauzey; Treasurer - John Williams, PE; Managing Director - Catherine Rips; Membership Chairman - Gene Johnson; Dinner Meeting Chairman - Elias Azrak; Communications Director - Jerald Cole; Newsletter Chairman - John Addison; Program Chairman - Henry Wedaa; Director at Large - Gary Dixon; Director at Large - Jon Slangerup; Ex-Officio Government Liaison - Shannon Baxter, PhD. To contact the board, please click info@californiahydrogen.org.

15. Be a Member of the California Hydrogen Business Council

Be involved with the leaders in making the hydrogen economy a reality. CHBC is a non-profit organization, which offers a common meeting ground for discussing the technologies, methodologies, and opportunities in the hydrogen economy. Silver Membership is \$1,000 per year and allows organizations to send five people to each meeting at reduced member rates, plus provides valuable marketing opportunities. Individual membership is \$200 per year. To join, visit our website or call (760) 341-2924 with your credit card.

<http://www.californiahydrogen.org>

16. Send Us Your News!

We welcome important news from our members for inclusion on our website and in next month's report. Please send to: info@californiahydrogen.org. Thank you for helping build a great organization.

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