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## CHBC - Report - April 2010

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May 2, 2010

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3. May 16-21 - 18th World Hydrogen Energy Conference
4. May 17-22 - ASME 2010 4th International Conference on Energy Sustainability
5. May 27 - AQMD to Host "A World We Can Change" High School Student Clean Air Conference & Expo

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25. Plug Power and UCI's NFCRC Participate in Groundbreaking Residential Fuel Cell Tests

## TO ATTEND!

### 1. **May,3-5 - NHA Hydrogen Conference & Expo**

Site Design by **Graphtek**



The NHA Hydrogen Conference & Expo is the largest hydrogen event in the USA and a leading event serving the international community. It is the place where partnerships are formed, deals are made, and new hydrogen technologies are introduced. This event will be held in Long Beach, California, USA. [Click here to visit the NHA Conference Website.](#)

### 2. **May 19 - UC's DISTINGUISHED ENERGY LECTURE SERIES, 5 to 6 p.m., "California's Market Price Referent: Setting the Bar for Renewable Energy"**

The lecture will take place from 5 to 6 p.m. in the Engineering Hall Auditorium. A light reception immediately following the lectures will be at the National Fuel Cell Research Center.

Lecture Venue: Engineering Hall Auditorium (Building 308, UC Irvine Campus)

Reception Venue: National Fuel Cell Research Center (Building 323, UC Irvine Campus)

Parking: Available in the Anteater Parking Structure at Anteater Drive and East Peltason

Please R.S.V.P. to Jana Santiago at [js@apep.uci.edu](mailto:js@apep.uci.edu) with your name and affiliation. [Click here to visit the website.](#)

### 3. **May 16-21 - 18th World Hydrogen Energy Conference**

The objective of the 18th World Hydrogen Energy Conference is to promote hydrogen technologies and to identify scientific and strategic issues in the field of hydrogen and fuel cells giving answers based on the most advanced state of the art in science and engineering. Decision makers in politics, industry, research, and finance will be addressed in dedicated strategic sessions of the first conference day. Contributions from international experts will focus on the role and path of hydrogen in the energy economy. This event will be held in Essen, GERMANY. [Click here to visit the website.](#)

### 4. **May 17-22 - ASME 2010 4th International Conference on Energy Sustainability**

The conference provides a unique opportunity for communication and collaboration between academia, industry and planners in the areas of Solar Energy, Energy Efficiency, Renewable Energy and Advanced Energy Technologies. This event will be held in Phoenix, Arizona, USA. [Click here to visit the website.](#)

### 5. **May 27 - AQMD to Host "A World We Can Change" High School Student Clean Air Conference & Expo**

More than 8,000 high school students are expected to attend an air quality conference this spring focusing on clean-air technologies. [For more information, click here to visit the website.](#)

## THE REST OF THE NEWS:

### 6. **FUNDING - Office of Fossil Energy FY2010 Energy and Water Appropriations Act R&D Projects, Funding Opportunity Number: DE-FOA-0000317**

Creation Date: Apr 20, 2010

Original Closing Date for Applications: May 19, 2010

Office of Fossil Energy FY2010 Energy and Water Appropriations Act R&D Projects to solicit applications in the following three (3) Program Areas: Topic Area 1 - Gasification, Topic Area 2 - Turbines, and Topic Area 3 - Fuel Cells.

[Click here to visit the website.](#)

### 7. **FUNDING - ARPA-E Announces \$106M in Futuristic Projects**

The Department of Energy announced \$106M today in funding for 37 experimental projects that could radically displace the ways that we think of "alternative energy." These projects encompass 17 states. More than half of the recipients are Universities. Funded via the "Advanced Research Projects Agency-Energy" (ARPA-E), focused on three areas: one is "Electrofuels" - a fourth-generation process that utilizes organisms that can extract energy from unconventional sources like hydrogen, metal ions, and solar-derived electricity, rather than biomass. The DOE also calls this direct solar fuel.

[Click here to visit the website.](#)

### 8. **The Transit Agency in Burbank, California Unveiled its New Fuel Cell Bus**

The transit agency in Burbank, California unveiled its new bus equipped with hydrogen fuel cell technology. The vehicle is a test bus from Colorado-based Proterra with funding via state grants. It is scheduled to hit the streets in June. The bus reportedly will be able to travel up to 250 miles before recharging, double the distance a diesel bus can go on a full tank, and will rotate between the city's four routes. The light weight chassis will house two fuel cell modules and lithium titanate batteries. The on board storage tanks provide hydrogen to the fuel cells which produce electricity to energize the batteries that power the bus.

The city installed a hydrogen station in 2006. [To read more, click here to visit the website.](#)

### 9. **Air Products' Hydrogen Fueling Technology Selected for Warehouse Environmental Makeover at UNFI Distribution Center in Florida**

Air Products announced that its hydrogen fueling technology for the material handling market is being installed at the Sarasota, Florida distribution center of United Natural Foods, Inc. ( UNFI). Air Products' technology will fuel 65 fuel cell powered lift trucks that will be mobilized at the distribution facility moving consumer goods on a daily basis. The equipment for the 352,000 square-foot Sarasota facility, which serves as a regional distribution hub for customers in Southeastern United States, is targeted to be operational by the end of June 2010... Hydrogen for these stations is delivered to a site via truck, produced by natural gas reformation, biomass conversion, or by electrolysis, including electrolysis that is solar and wind driven.

[For the complete article click here.](#)

### 10. **Honda's Hydrogen Charging Station**

Honda has developed a new charging station that can provide a full hydrogen charge in only eight hours using solar energy. The new charging units are much smaller than previous versions and are designed to be integrated into user's garages. Each unit can produce 0.5kg of hydrogen in 8 hours, enough to fill a standard car for daily commuting. The unit also doesn't require storing hydrogen on site, lowering the charging's carbon dioxide emissions. By connecting the unit to smart grid energy system, users can even sell energy back. For future hydrogen car users the system will help support dispersed quick fill charging stations. [For more information, and to view pictures, click here. To view a video on the fueling station by Automotive News TV, click here.](#) The story is in about three minutes on the video.

### 11. **Honda Expands 'Impossible dream' ad - What good is dreaming it if you don't actually do it!**

Five years after Honda launched its epic "Impossible dream" TV ad, in which a test driver moved between vehicles from a speedboat to a Formula 1 car, the company is releasing an extended version is to air across Europe featuring a jet, a

hydrogen-powered car and its robot Asimo. Honda's extended version, which runs to two-and-a-half minutes - 30 seconds longer than the original. The additional 30 seconds of the commercial shows the FCX Clarity, a hydrogen fuel cell car, the CR-Z Hybrid Coupe, the Honda Jet, and the Asimo robot.

[To view the video, click here.](#)

#### 12. Wegman's Using Hydrogen-Fuel-Cell Lifts in Pennsylvania

Wegman's, the Rochester, N.Y.-based supermarket chain, is using 50 hydrogen-fuel-cell-powered forklifts to move pallets of fresh produce daily onto trucks that travel from its Pottsville warehouse to stores in five states. The fleet of forklifts uses fueling-station technology developed by Air Products and Chemicals Inc. of Allentown. The hydrogen fuel cells were produced by Plug Power, based in Latham, N.Y. The project received partial federal and state funding. Wegman's has 13 stores in Pennsylvania and seven in New Jersey. [For the complete article, click here.](#)

#### 13. UTC Power Marks End of Space Shuttle Orbiter Fuel Cell Program

UTC Power and Hamilton Sundstrand, United Technologies Corp. companies, celebrate the end of an era when they ship the last Space Shuttle Orbiter fuel cell powerplant to United Space Alliance, NASA's prime shuttle contractor. Hundreds of employees and retirees gathered at UTC Power to mark the important milestone.

Every manned space mission since 1966 has used fuel cell power plants built and maintained by UTC Power in South Windsor, Conn. Hamilton Sundstrand assumed program management responsibility for the shuttle fuel cell program in 2009. "We are extremely proud of the durability and reliability our spacecraft fuel cells have demonstrated since 1966," said Joe Triampo, Vice President and General Manager, UTC Power. "The company's roots are with the U.S. space program, but we've been busy ever since applying ultra clean fuel cell technology here on earth for stationary and transportation applications." [For the complete article, click here.](#)

#### 14. Plug Power and Raymond Announce Distribution Agreement at the NA 2010 Trade Show

Raymond and Plug Power hold press conference to discuss distribution agreement between the two companies at the NA 2010 Trade Show (material handling and logistics show) in Cleveland, Ohio, attracting over 15,000 industry professionals. [To read the complete article, click here.](#)

#### 15. New Santa Cruz Safeway Showcases its Environmental-friendly Features, Including Two 'Bloom Boxes'

The Westside Safeway celebrated Earth Day on Thursday by showcasing its new eco-friendly equipment, including two "Bloom Boxes," alternative fuel cells using a breakthrough technology. "We've come a long way to reduce our carbon footprint and improve our sustainability," said Teena Massingill, director of corporate public affairs for Safeway. "This is a day worthwhile to celebrate." [To see more, click here.](#)

#### 16. Linde to Feature Hydrogen Fueling Technologies for Fuel Cell Vehicles at NHA

Linde North America will showcase its next-generation hydrogen fueling technologies at the National Hydrogen Association (NHA) 21st annual conference, which will be held at the Long Beach Convention Center, Long Beach California, from May 3 to 5, 2010.

Mike McGowan, head of strategic alliances for Linde's alternative energy team, and who also serves as NHA chairman, said, "Linde is focused on finding ways to reduce our dependence on fossil fuels and cut our greenhouse gas emissions. Expanding our North American vehicle fueling capabilities gives customers greater access to our strong hydrogen network and world-class engineering." [For the complete article click here.](#)

#### 17. Praxair and Powertech Enter into a Strategic Alliance to Supply Hydrogen & Fueling Equipment for Fuel-Cell Powered Forklifts

Praxair, Inc. and Praxair Canada have signed a strategic alliance with Powertech Labs, Inc. to jointly market and sell Praxair's hydrogen and Powertech's hydrogen fueling equipment to materials handling customers, specifically to distribution centers for hydrogen fuel-cell powered forklifts. The alliance between Praxair and Powertech combines North America's largest liquid hydrogen producer with a leader in innovative hydrogen fueling systems to provide reliable, cost-effective hydrogen fueling to fill a growing need.

"Praxair and Powertech bring many years of combined experience and expertise in both hydrogen supply and fueling equipment to successfully meet the growing needs of these leading-edge customers," said Scott Sanderude, vice president, Marketing & Business Development, for Praxair's North American Industrial Gases business unit.

"Powertech is a leader in providing clean energy consulting, testing and systems solutions," said Eamonn Percy, PowerTech president. "Distribution centers with large materials handling fleets are realizing the benefits of hydrogen fuel-cell powered forklifts. This alliance will help increase their productivity while potentially decreasing costs associated with operating traditional battery-powered forklifts." [To read the complete article, click here.](#)

#### 18. FuelCell Energy Announces that the California Public Utilities Commission Approves 5.6 MW Fuel Cell Energy Projects

FuelCell Energy, Inc. a leading manufacturer of high efficiency ultra-clean power plants using renewable and other fuels for commercial, industrial, government, and utility customers today announced that the California Public Utilities Commission (CPUC) has authorized Pacific Gas and Electric Company and Southern California Edison Company to undertake Fuel Cell Projects to install utility-owned fuel cells on several University of California and California State University campuses. [To read the complete announcement, click here.](#)

#### 19. LetterLogic, Inc. Using Hydrogen to Run Company Mail Trucks

Converting company trucks to a hydrogen cell generator is just one of the many ways LetterLogic leads the way in strong environmental practices. "Going green is just good sense. We are discovering that every greening initiative we've implemented has either saved us money, or made our employees a healthier, happier bunch. We're doing our part to support Nashville's goal of becoming the greenest city in the Southeast," said Sherry Stewart Deutschmann, owner & CEO of LetterLogic. [For the complete article, click here.](#)

#### 20. Pepsi Bottling Group Purchases 40 Hydrogen-injected Trucks

Dynamic Fuel Systems Inc. announced the purchase by Pepsi Bottling Group Inc. of 40 new hydrogen-injected trucks from Hydrogen Leasing Company, a subsidiary of one of Dynamic's non-exclusive U.S. dealers, Hydrogen Fuel Systems Inc. Dynamic has received a binding purchase order from Hydrogen Fuel Systems for 40 Jetstar units for installation on these new trucks.

Jerry Solensky, Jr., CEO of Dynamic, said, "Pepsi Bottling Group's newest purchase order is an extremely exciting event for our company. We view these sales as further significant step in what we believe and expect will be a long and fruitful business relationship for Dynamic, Pepsi Bottling Group, Hydrogen Leasing Company and Hydrogen Fuel Systems." [Click here read more.](#)

**21. IdaTech And Cascadian Announce A Deployment Of Advanced Fuel Cell Technology With Hutchison Telecom In Indonesia**

IdaTech, a global leader in the development and manufacture of clean and reliable PEM fuel cell products for critical backup power markets, in conjunction with its partner Cascadian Inc. and Indonesian wireless operator PT Hutchison CP Telecommunications (HCPT), is pleased to announce a deployment of the latest generation of hydrogen backup power fuel cell systems throughout the Indonesian island of Sumatra. [For the complete announcement, please click here.](#)

**22. Ford's Hydrogen-Powered, Plug-In Hybrid shown at New York Auto Show Test Drive**

The Ford HySeries Edge, the world's first working plug-in, fuel-cell, hydrogen-powered car is shown at the New York Auto Show. [To see video 1, click here.](#)  
[Click here to see video 2.](#)

**23. BMW's Hydrogen Hybrid Mini**

BMW has unveiled a new hydrogen hybrid drivetrain that could be used by the next-generation Mini and the front-wheel-drive BMWs planned for 2014.

The system combines a conventional front-drive powertrain along with a hydrogen fuel cell, electricity-storing supercapacitors and an electrically driven rear axle. [To read more and see a picture, click here.](#)

**24. Fuel Cells 2000 Reveals the Top 5 Fuel Cell States in New Report**

Fuel Cells 2000, a non-profit outreach organization, has chosen its Top 5 Fuel Cell States in a new report, "State of the States: Fuel Cells in America." They are: (alphabetical order) California, Connecticut, New York, Ohio, and South Carolina.

California is the world leader in vehicle demonstrations, hydrogen fueling stations and strict emissions standards, and has aggressive policies supporting fuel cell power generation utilizing renewable biofuels. [For the complete article, click here to go to the website.](#)

**25. Plug Power and UCI's NFCRC Participate in Groundbreaking Residential Fuel Cell Tests**

Department of Energy Funds University Partnership with Plug Power and UC Irvine's National Fuel Cell Research Center to test the viability of the latest generation of fuel cell technology for providing electricity and heat to homes. The \$3.4 million partnership, which includes Southern California Gas Company, is a beneficiary of the \$42 million in American Recovery and Reinvestment Act funding for fuel cell technology announced by Energy Secretary Steven Chu. The three-year project is intended to verify the durability and commercial readiness of Plug Power's combined heat and power GenSys product. Designed for residential and small business applications, GenSys replaces traditional furnaces and boilers, creating electricity and high-quality heating for consumers. The trial fuel cells will be installed in highly visible locations in Southern California.

"The world looks to California as the testing ground for next-generation power technologies. The eventual shift to fuel cell technology is not an incremental change to society, but rather a dramatic and fundamental shift in the way electrical power will be provided to individual homes," said Scott Samuelsen, NFCRC director. "UCI has played an integral role in leading this transformation, and we are excited to partner with Plug Power in this important next step."

Katrina Fritz Intwala, vice president of government and public relations at Plug Power said the Department of Energy's vision and leadership has facilitated industry expansion.

"This will allow companies like Plug Power and its customers to deploy exciting alternative energy products and accelerate the growth of green jobs," she said. "We appreciate the DOE's investment and commitment to fuel cell technology." [For the complete article, visit the NFCRC's website by clicking here.](#)