



MEMBER NEWS

The NHA Welcomes Six New Members to the Association



*Rex Hazelton,
National Hydrogen Association*

We are pleased to announce that the NHA gained nine new members during the third quarter of 2007

representing the Sustaining, Industry, Small Business and Government/Non-Profit Membership classes. This brings the membership of the NHA up to 103 total members, with the Small Business category continuing to expand the fastest, now up to 34 companies. We are always on the lookout for new partners to bring into the association, so if you know any organizations that might benefit from NHA membership, please let us know!

Altery Systems - Sustaining Member
Representative: Mickey Oros, SVP Product Development

Altery Systems designs and manufactures proprietary proton exchange membrane (PEM) fuel cell systems, collectively known as Altery Freedom Power™ products. These compact, rugged, high efficiency systems produce power at the point of use -- making reliable, low cost, distributed power generation a reality.

Telecommunications, data centers, and other mission-critical premium power applications benefit greatly from the uninterrupted, on-demand power, peak shaving and load shedding made possible by Altery's innovative fuel cell systems. Altery's patented and validated technology breaks critical fuel cell barriers and shifts not one but three existing paradigms: the perception that all fuel cells are expensive; how fuel cells are designed, manufactured and used; and,

of greatest significance, how the 21st century world will be powered.

AppliedSensor - Small Business Member
Representative: Tom Aiken, COO

Applied Sensor has manufactured gas sensors for air quality, safety, and control since 1972. Included in our technology is selective and rapid hydrogen gas detection for on-board automotive and non-automotive safety applications. After years of developing gas sensing applications for industry, AppliedSensor has designed fully integrated modules that serve as product platforms for new application development. Using these highly engineered modules we are able to drive to final product solutions that meet your specific needs. Whether you need fully integrated modules or our unique micro-machined sensor components, AppliedSensor is ready to support your development project.

Concurrent Technologies Corporation - Government/Non-Profit Member
Representative: Eileen Schmura, Senior Mechanical Engineer, Advanced Energy Programs

Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied research and development professional services organization providing innovative management and technology-based solutions. As a nonprofit organization, CTC conducts impartial, in-depth assessments and delivers reliable, unbiased solutions that emphasize increased

quality, enhanced effectiveness, and rapid technology transition and deployment. Collaboratively working with our clients, CTC performs research, development, test, evaluation, engineering, and integration relative to advanced energy technologies that addresses energy efficiency, energy surety, energy and environmental sustainability, and energy independence.

H2Hold - Small Business Member
Representative: Charles Keip

H2HOLD, LLC is a company established to promote their patented process of containment for small molecular gasses such as helium and hydrogen. The importance of the process is:

- a) Helium is a finite and expensive resource.
- b) Current hydrogen containment processes using aluminum or stainless liners are expensive.

Using the H2Hold process allows use of inexpensive blow molded liners and, therefore, dramatically reduces the cost of containing these gases. H2HOLD intends to seek out and collaborate with hydrogen producers and containment manufacturers. H2Hold is also developing concepts for economical hydrogen, and helium, storage systems for use in helium filled, hydrogen powered, lighter than air, vehicles for freight transport, surveillance and communication.

Presently H2HOLD is collaborating with a number of companies to commercialize air transport of freight. It is also reaching out to different sectors of the transportation industry and aerospace developers who can benefit from its light weight and low leakage containment process. Hydrogen producers are also targeted in the development of economical stationary containment and pipeline distribution and storage.

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Hy-Drive Technologies - Small Business Member

Representative: Patrick Smith, Director of Marketing

Hy-Drive is an energy technology firm that has developed a proprietary, patented hydrogen generating system. The Hy-Drive system generates and injects hydrogen gas into a regular internal combustion engine, enhancing the combustion process by allowing fuel to burn more efficiently and completely. The result is reduced harmful emissions, reduced greenhouse gas emissions and operator fuel savings.

Hydrogen Discoveries - Small Business Member

Representative: Greg Blencoe, CEO

Hydrogen Discoveries, Inc. has a hydrogen fueling system for road vehicles where solid hydrogen fuels must be off-boarded and a polymer/metal tube technology that can be used in applications all the way from hydrogen pipelines down to hoses in future hydrogen cars.

ITM Power - Small Business Member

Representative: Enrique Troncoso, Electrolyzer Market Analyst

ITM Power Plc is a leading developer of solid polymeric fuel cell and electrolyzers technologies. Through the use of its novel patented materials and production methods, ITM is working towards the commercialization of low cost fuel cells and electrolyzers to enable the hydrogen economy to become a commercial reality. ITM has identified low-cost Electrolyzer technology as the vital component for converting carbon free energy into clean hydrogen fuel (on site and on demand).

ITM is applying its proprietary hydrophilic ionic materials in Membrane Electrode Assemblies (MEA's) for the prospective mass production of fuel cells and electrolyzers. Projected capital costs for volume production are approximately one order of magnitude lower than existing PEM technology.

ITM has patented a new one-step manufacturing process, which allows a fuel cell/Electrolyzer stack to be made in a single step, and the company has demonstrated the operation of flexible stacks. ITM's technological approach also affords the possibility of manufacturing stacks of virtually any shape for a wide range of products.

Port of Los Angeles - Government/Non-Profit Member

Representative: Ralph Appy, Director of Environmental Management

Balancing growth and development with environmental considerations is a challenge the Port of Los Angeles continues to address every day. This is accomplished through a variety of strategies that include cleaner-burning vehicle operations in and around the Port, more efficient cargo-handling; improved infrastructure; and biological, industrial and internal environmental programs.

The efficient movement of cargo can be a significant benefit to the environment. Improvements to infrastructure and operations can result in long energy savings and can reduce transportation impacts and air emissions per unit of cargo transported. The Port is in the forefront in improving infrastructure and helping guide operational changes to ensure the efficient movement of goods

Power and Energy - Small Business Member

Representative: Peter Bossard, CEO

Power+Energy develops hydrogen purification, separation and fuel processing technology for the hydrogen economy. P+E has recently demonstrated its hydrogen fuel processing technology which will be amenable for use with both traditional and alternative fuels. The patented micro-channel membrane technology can be scaled to supply a wide range of hydrogen volumes, on-demand and at point-of-use. This technology can be utilized to supply hydrogen from fuels in stationary, portable and mobile applications. P+E's target markets include: auxiliary power, back-up power, grid-independent power, hydrogen fueling stations, and on-board reforming.



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