



The NHA Welcomes Four New Members to Association

by Rex Hazelton, NHA Membership Coordinator

The NHA is delighted to welcome four new members:

Applied Thin Films, Inc,

ATFI is an advanced materials company developing thin film technologies to serve defense, energy, aerospace, and other industrial needs. Our four platform technologies offer broad and disruptive attributes that can improve performance of existing products or enable new products and/or provide significant reduction in manufacturing/operational costs. Each technology segment is embodied by a new material composition or form and an associated low-cost, scalable, and environmentally-friendly process.

HydroGen, LLC

HydroGen LLC, a wholly-owned subsidiary of HydroGen Corporation (OTCBB: HYDG), is a manufacturer of multi-megawatt fuel cell systems utilizing the Company's proprietary 400 kilowatt (kW), air-cooled phosphoric acid fuel cell (PAFC) technology. The technology was developed by the Westinghouse Corporation with over \$150MM of public and private investment to date. HydroGen is positioning itself to compete in the rapidly growing distributed generation market,

by offering complete fuel cell systems in the 6-30 megawatt (MW) range at prices competitive with incumbent generating technologies in this size class, and significantly lower than other fuel cell technologies. HydroGen's products provide close to zero emission, net water-generating, reliable, high-quality electric power from hydrogen. The Company's products address directly the problems associated with the current inefficient, centralized, combustion-based energy system by offering economically competitive fuel cell systems that will accelerate market entry of clean, sustainable energy technology.

NextJoule, LLC

NextJoule, Inc. was formed by seasoned experts in chemistry, power quality and finance to develop and market a ground-breaking new method for producing hydrogen through sunlight, using patented silicon nanocrystal technology. In contrast to today's expensive and inefficient approaches to generating hydrogen, our solution provides a safe and efficient way to obtain large amounts of this energy-rich gas. The core proprietary technology behind our breakthrough solution has shown great promise in small scale laboratory testing.

Our patented method of producing hydrogen entails splitting water using quantum confined silicon domains to absorb sunlight, and transfer charged particles created by the light absorption to at least one catalytic material bonded to the silicon domain that in turn splits water. The entire process is estimated to take up to only 70 milliseconds, which, when extrapolated, can produce roughly 2.2 liters of hydrogen gas every minute per square meter.

University of Kansas – Transportation Research Institute

The University of Kansas Transportation Research Institute (KUTRI) fosters cross-disciplinary research into emerging transportation issues that have broad societal significance. KUTRI provides an organizational framework that focuses on current and future research opportunities aimed at transportation design, evaluation and application as an integrated, functional process.

The KUTRI draws upon campus researchers and graduate students from a variety of disciplines, colleagues from other Universities, and public transportation entities. The Institute seeks research endeavors that encompass design, demonstration, analysis, and evaluation. The KUTRI fulfills a special role as a center of expertise at a public institution: it offers workshops and conferences, manages an active publication program, and cooperates with industry and government on various public education endeavors.



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