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sensors expo & conference

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Energy Harvesting to Be Featured at Sensors Expo and Conference

Pavilion on the Show Floor and All Day Symposium Provides New Opportunities for Manufacturers

NEWTON, MA--(Marketwire - March 16, 2009) - Energy Harvesting will be featured through a Pavilion in the Expo Hall and several conference sessions specific to the topic at The Sensors Expo & Conference, the leading event on sensing technology and solutions. The Expo & Conference will be held Monday, June 8 through Wednesday, June 10 at the Donald E. Stephens Convention Center in Rosemont, IL.

The Energy Harvesting Pavilion is a new area on the show floor providing Energy Harvesting & Power Management solutions that are capable of capturing, converting, storing and delivering energy in a form that can be used to provide the power needed by the system it serves. The Pavilion will also include an Application Showcase Theatre where vendors have scheduled demonstrations and education content around Energy Harvesting & Power Management for all Sensors Expo attendees. Sponsors of the Pavilion include:

- Advanced Cerametrics Incorporated: With flexibility and power to match, ACI's piezo fiber composites are revolutionizing the way engineers think about powering products. ACI piezo composites offer 10X the power generation of other flexible piezo solutions at a fraction of the cost of other piezoelectric composite solutions
- Cymbet is the leader in thin film battery technology and energy harvesting power management solutions. Their EnerChip™ provides innovative power storage solutions for many applications including power bridging, permanent power and wireless sensors.
- Infinite Power Solutions, Inc. (IPS) is the global leader in developing and manufacturing solid-state, rechargeable thin-film micro-energy storage devices (commonly known as thin-film batteries) for a variety of micro-electronic applications.
- MicroStrain® develops and produces innovative, smart, wireless, microminiature displacement, orientation, and force sensors.
- Powercast is a leader in wireless power designed for a new class of industrial, commercial and defense applications. Powercast technology enables controllable power delivery over distance for wireless sensors.
- Tadiran Batteries lithium thionyl chloride cells are the most powerful and reliable lead-free, RoHS and WEEE compliant batteries in the world, delivering unrivaled performance to power today's increasingly sophisticated technologies.

"The Sensors Expo & Conference prides itself on offering its attendees the most innovative and newest technologies that will support and advance the industry," said Debra Brown, event director for Questex Media Group, producers of the event. "Energy Harvesting is a new breakthrough that is having a positive impact on the sensors marketplace and the companies featured in this new Pavilion are key representatives in the field, and we are thrilled to feature them on the Expo floor."

On Monday, June 8, Randy Frank, President of Randy Frank & Associates, Ltd, will present an all day Symposium "Energy Harvesting for Powering Sensor Applications." Frank will present how to match the energy harvesting technology to specific applications, the importance of the energy/power budget, and the current status of "available" technologies. During his presentation, Frank will discuss the various techniques that exist for converting mechanical or electrical energy, light, or temperature differences into energy for powering sensors including piezoelectric, radio frequency, inductive coupling, wind and solar power. In addition to exploring the various energy harvesting technologies, other system aspects that will be addressed in the session include high efficiency, low-power microcontrollers, wireless connectivity and advanced batteries.

On Wednesday, June 10 there will be several sessions in the Energy Harvesting track, starting with "Wireless Power for Battery-Free Wireless Sensors," presented by Harry Ostaffe, Director of Marketing, Powercast. "We are excited to be part of this new Energy Harvesting Pavilion and the dedicated conference track. Wireless power based on RF energy harvesting is a unique solution for powering wireless sensors that can be engineered and controlled, enabling predictable lifetime power to sensors for battery recharging or battery-free operation," said Ostaffe.

Other topics in the conference program include "Wireless & Energy Harvesting Technologies for Energy Inefficient Buildings," presented by Eugene You, Applications Engineering Manager, EnOcean Inc. and Dan Wright, Electrical Engineer, Leviton. You and Wright will discuss how wireless and energy-harvesting technologies, when combined with sensors, transcend barriers commonly associated with retro-fitting buildings with modern efficiencies. The third session, titled "Where Batteries and Battery-less Merge: Using RF Energy Harvesting to Recharge Batteries for Wireless Devices," presented by Steve Mesibov, Lead Applications Engineer, Planar Energy Devices. In this session Mesibov will examine a solid-state, thin-film energy storage solution that offers high energy storage density and low leakage rates; how a rechargeable lithium metal, thin-film battery can be powered by RF energy harvesting; and how the battery and RF recharge circuitry compares to the technology of supercapacitors and battery-less energy harvesters.

The 2009 Sensors Conference Program will offer 18 tracks with an expanded focus on data acquisition, data analysis, wireless, M-2-M and communications while continuing to address the challenges of integration and interoperability. Topics that will be covered include Wireless Sensor Networks, MEMS Based System Solutions, Machine Health & Predictive Maintenance, Location-Aware Sensing and much more.

The Expo will bring together the largest showcase of sensing technologies and systems to accomplish industrial automation and achieve more efficient and cost-effective enterprise management. Exhibitors include Silver Sponsor MicroChip Technology, as well as Astyx, Inc., Electrovac, Honeywell, IKONICS Imaging Industrial Solutions, Interplex Engineered Products, Inc., Micronas GmbH, Santest Co., Ltd., Sensor Products, Inc., Siargo Ltd., VXI Technology, X-FAB Semiconductor Foundries AG and others.

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