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Darnell Group

NEWS

Call for Papers on Energy Harvesting for nanoPower Forum '08

Corona, California, January 3, 2008 – Up to a quarter of all portable electronic devices, including mobile phone handsets, MP3 players and laptop computers as well as wireless networking devices, will employ some form of energy harvesting within the next few years. Depending on the application, energy harvesting devices will provide the primary power source or will be used to supplement on-board batteries. Energy harvesting and related power management technologies are the “next big thing” for the power electronics industry and will be the focus of the 2008 nanoPower Forum (nPF '08) to be held at **the Wyndham Orange County, in Costa Mesa, California on June 2 - 4.**

Submissions sought in two areas: 1) Technology Topics may include: energy harvesting technologies, thin-film batteries, long-life secondary batteries, energy storage, advanced power conversion, micro fuel cells, optimizing system energy efficiencies, among others. 2) Case Study Examples may include: mesh networks, wireless sensor and control systems, industrial/building automation, system integration issues, RF powering considerations, system architectures, etc.

“Adding even a 10-milliAmp trickle charge from a nano-sized solar cell to a mobile phone handset can extend battery life to a week or longer,” stated Jeff Shepard, President of Darnell Group. “Looking at opportunities in wireless networking is equally exciting. Copper wiring is increasingly expensive. The latest wireless networking systems promise substantial savings and improved performance compared with traditional wired alternatives. For example, use of a piezoelectric-based energy-harvesting wireless lighting control in a recently built warehouse saved over 70% in construction costs compared with the equivalent wired solution.”

The second annual nanoPower Forum will be the premiere event for the wireless networking and portable electronics industry in 2008. Low-power devices (LPDs) are being deployed for wireless applications such as mesh networks, wireless sensor and control systems, microelectromechanical systems (MEMS), radio frequency identification (RFID) devices, and so on. Energy harvesting, energy storage and power management are some of the major issues in terms of the commercial rollout of next-generation LPD systems. Delegates will have a chance to meet and talk with top executives and technical professionals in the fields of advanced batteries, power management ICs, ultra-low power RF technologies, energy harvesting, networking protocols, and related fields.

Mesh networks, wireless sensor and control systems, industrial/building automation and a variety of medical, military and other applications depend on the latest advances in ultra-low power electronics and MEMS technologies. nPF '08 will focus on solutions to the increasing complexity of wringing out the maximum performance from tomorrow's advanced ultra-low power devices. It will bring together component suppliers and system designers and will address the latest advances in this rapidly emerging field. Regardless of the energy harvesting technology (piezoelectric, photovoltaic, thermo-electric, etc.) or the energy storage technology (battery or fuel cell, primary or secondary), the critical aspect of designing an ultra-low power wireless device is the complete power management solution and efficient energy utilization.

Delegates to nPF '08 will include: Executives and engineers from LPD wireless system companies, MEMS engineers, Advanced battery technology executives and engineers, Energy harvesting technology specialists, Power management and power conversion design professionals, Applications engineers, Commodity managers, and Industry/Financial analysts.

Darnell Group is the leading source for worldwide strategic information covering the full spectrum of power electronics, energy storage and generation. The company specializes in the economic/business analysis of emerging power markets and technologies. The nPF '08 web site is at: <http://nanopower.darnell.com>.



The World's Power Electronics Specialist