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# Darnell Group

# NEWS

## 2009 nanoPower Forum Call for Papers Issued

Corona, California, January 15, 2009 – An Announcement and Call for Papers has been issued for the Third-Annual international nanoPower Forum (nPF '09) to be held May 18-20 at the Santa Clara, California, Biltmore Hotel. This focused three-day international conference will serve an audience of decision makers who are interested in learning about and contributing to the latest practical advancements related to the emerging area of “ultra-low power” (ULP) systems.

“In addition to continued advances in technology, energy efficiency regulations and tax credits are making these systems more affordable both at initial installation and over the lifetime of the system. Wireless approaches are generally less expensive than wired solutions, and when the need for battery replacement is eliminated, they are even more attractive,” stated Linnea Brush, Senior Analyst with Darnell Group. “Energy harvesting, thin-film batteries and power management ICs are key technologies enabling the commercial rollout of next-generation ultra-low-power electronic devices and systems. nPF '09 will focus on solutions to the increasing complexity of wringing out the maximum performance from tomorrow’s advanced ultra-low power devices,” Brush concluded.

The third-annual nanoPower Forum will be the premiere event for the wireless networking and portable electronics industry in 2009. ULP devices 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. Delegates will have a chance to meet and talk with executives and engineers from ULP 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.

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 '09 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.

**Submissions are being sought in two areas:** 1) Technology Topics may include: energy harvesting technologies, thin-film batteries, long-life primary batteries, energy storage, ultra-capacitors, 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.

The Advisory Committee for nPF '09 includes representatives from Advanced Cerametrics, Analog Devices, Auto Global Business Network (Italy), Cymbet, Ferro Solutions, Fraunhofer Institute, Georgia Institute of Technology, Green Peak, Infinite Power Solutions, Intel, IMEC, Microchip, Motorola, Nanotron Technologies, Powercast, Lightning Switch, Texas Instruments, Tyndall Institute, University of California, Berkeley – Berkeley Wireless Research Center, and the ZigBee Alliance.

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 '09 web site is at:  
<http://nanopower.darnell.com>.

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