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# Darnell Group

# NEWS

## Designing Ultra-Low-Power Wireless Systems a Seminar Offered by GreenPeak Academy

Corona, California, May 8, 2008 – Ultra-low-power and energy harvesting open the gate to widespread adoption of wireless sensor communication technology. In comparison to traditional ac-powered and even battery-powered applications, designers need to tackle new challenges and design with substantially different design constraints. A continuing education seminar titled, “**Designing for ultra-low-power wireless sensor applications, powered by energy harvesting,**” will be presented by the GreenPeak Academy on June 4 in Costa Mesa, California. Senior specialists from the GreenPeak Academy will address the key design challenges for ultra-low-power wireless sensor applications. Tips and Tricks will be discussed to arrive at the lowest possible energy consumption. Real life cases (including demo materials) will be addressed.

### Seminar Outline:

- Why low power wireless sensor networks powered by energy harvesting?
- Power budget breakdown in typical wireless sensor networks
- Practical engineering design techniques to reduce power consumption
- Useful sources of energy with demonstrations of energy harvesting
- Case exercise: practical – real-world low-power design for wireless sensor network applications

The seminar presenters will be Wim De Kimpe, CTO of GreenPeak, and Niek Van Dierdonck, GreenPeak’s Vice President of Strategy and Product Management. GreenPeak Technologies (<http://www.greenpeak.com>) is a fabless semiconductor, module and software company offering ultra low power wireless communication technology for sense and control applications. The company focuses on ultra low power in wireless sensor network applications by providing energy harvesting interfaces and battery-free solutions using standard communications. GreenPeak brings wireless and battery-free solutions for control networks with high reliability and standard compliance.

This leading-edge seminar is being given in conjunction with Darnell’s Second-Annual nanoPower Forum (nPF ’08), which will be hosted June 2-4 at the Wyndham Orange County in Costa Mesa, California. Energy harvesting, energy storage and power management technologies are a major issue in terms of the commercial rollout of next-generation ultra-low-power systems. Participants will have an opportunity to meet and talk with top executives and technical professionals in the fields of energy harvesting, advanced rechargeable batteries, power management, ultra-low power RF technologies, networking protocols, and related fields. 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. nPF ’08 will include exhibits, technical sessions, seminars, networking opportunities, and more. Multiple sessions on both Energy Harvesting and Thin Film Batteries will be featured at this year’s Forum.

Darnell Group is the leading source for worldwide strategic information covering the full spectrum of power electronics, energy storage and generation. Darnell publishes the industry’s daily news on [www.PowerPulse.net](http://www.PowerPulse.net) and specializes in the economic/business analysis of emerging power markets and technologies. Complete information on nPF ’08 and the GreenPeak Seminar is available at: <http://nanopower.darnell.com>

