

Darnell's DC Building Power Asia Conference Coming to Taipei

Corona, California, September 16, 2011 – Darnell's third-annual DC Building Power Asia conference will attract an international audience on December 12 & 13 to the Sheraton Taipei to discuss high-voltage and low-voltage dc power distribution in buildings (including commercial and industrial buildings, data centers, residences, and so on) and how those new dc-based power architectures will drive increased efficiency, improved sustainability and support the emerging Smart Grid. <http://dcbuildingpowerasia.darnell.com>

"We are excited about the expanded scope of this year's event," stated Jeff Shepard, President of Darnell Group. "We have an expanded Advisory Committee of internationally-recognized experts being co-chaired by Dr. Tsai-Fu Wu, Director of the Elegant Power Application Research Center at Taiwan's National Chung Cheng University, Dr. Keiichi Hirose, Senior Research Engineer with NTT Facilities and Hideo Miyazawa, Executive Director with Fujitsu Components. And this year's event will feature a tour of a working DC Micro Grid and Smart Meter lab at CHEM (Chung-Hsin Electric & Machinery Mfg. Corp.)," Shepard concluded.

This year's Advisory Committee is larger and stronger than ever with representatives from **Anderson Power Products, Chung-Hsin Electric & Machinery (CHEM), Delta Electronics, Fujitsu Components, Harmer & Simmons, Hitachi, Huawei, Intel, Leader Electronics, National Chung Cheng University, NTT Facilities, Osaka University, Sharp, Shindengen, Taiwan Smart Grid Industry Association, TDK, Tyco Electronics** and the **University of Tokyo**.

A convergence of technologies is occurring that will change how buildings are powered and how building energy use is managed. These technologies include the continued rapid growth of distributed generation resources (photovoltaic panels, wind turbines, fuel cells, micro turbines, etc.) the emergence of high-efficiency lighting technologies (especially solid-state LED lighting); wireless building automation systems' demand-side management of building energy use by utilities and embodied in the Smart Grid; and more. According to recent studies, the use of dc power can be ten-times more reliable and significantly more efficient compared with today's ac-powered buildings. DC Building Power Asia will consider a wide variety of inter-related power technologies including high-voltage and low-voltage dc distribution in buildings, hybrid ac and dc distribution architectures, dc micro-grids and the emerging smart grid.

A Call for Papers has been issued: <http://dcbuildingpowerasia.darnell.com/call.php>

1. **Case Studies/Industry Examples:** outstanding examples of recent applications of dc power distribution or hybrid ac and dc power distribution or dc micro-grids in commercial, industrial, government, and residential buildings, or in critical facilities such as data centers, including field tests and full production systems.
2. **Implementation and Operational Process:** return on investment scenarios and analysis of benefits for implementation of new and improved DC power distribution technologies, with special focus on the role of power electronics; directions and developments in utility interface and integration; needed and/or anticipated changes in regulatory environments.
3. **Technology Developments:** projections and forecasts for changes in core power electronic technologies, including new designs/implementations, new applications and new methods for implementing solutions.

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. Complete information on the third-annual DC Building Power Asia conference is available at: <http://dcbuildingpowerasia.darnell.com>