Data Center Power & Cooling Efficiency Seminar: 2012

To have a well-designed and efficient data center you need to have all of the right tools. Earn the credits and knowledge you'll need to reduce cooling costs, manage airflow and deploy power for mission critical systems by attending the Data Center Power & Cooling Efficiency Seminar. Through real world examples and discussions conducted by some of the industry's leading innovators, each attendee will leave with a comprehensive understanding of the strategies and solutions it takes to run a truly efficient data center.

8 BICSI
2 AIA
Credits

In one day, attendees will experience in-depth learning opportunities that result in a comprehensive understanding of the following trends and concepts:

Data Center Design: Socio-Political Context
- Key implications associated with ASHRAE 90.1 and the new ASHRAE environmental guidelines
- Insights into future trends and opportunities in the industry as revealed through code developments in California and Europe
- Clarification on the PUE metric and alternative metrics for self-improvement

Redundancy and Deadly Single Points of Failure
- Awareness of the single points of failure hiding in designs and how they negate redundancy
- Why improper configurations can mean "false redundancy" in both power and cooling
- How redundancy can be defeated by bad practice, human error, and particularly by the EPO

Optimizing Your Cooling Energy Consumption in New and Existing Data Centers
- Strategies for reducing data center cooling energy through ASHRAE TC 9.9-2011 best practices and the ASHRAE 90.1-2010 standard
- Ways to apply current cooling technology to data center designs, such as hot/cold aisle containment, raised floors, and utilization of air and water side economizers

Using Airflow Simulation to Meet Cooling Challenges
- Familiarity with Computational Fluid Dynamics (CFD) technique
- How airflow simulation can be used to design highly efficient (green) data centers

The Economics of Air Flow Management
- Merits and comparisons among the three styles of containment
- High density capabilities achievable through containment
- Operational efficiency benefits of containment and a roadmap for calculating ROI

Benefits of Overhead Power Distribution in Mission Critical Applications
- Versatility and increased reliability of overhead power distribution
- Monitoring for end feeds and branch circuits

Intelligent Power Distribution in the Data Center
- Value of managing power density and redundancy with three phase and high voltage PDUs
- Importance of PDU design features for reducing installation time, cabinet/air obstruction and maximizing flexibility
- How to save money and improve power control with intelligent PDUs

380V DC Power for Data Centers: An Engineering Perspective
- Exploration of the trends toward using 380V DC power for data centers and away from converting AC power
- Benefits and holistic business value of converting to 380V DC power

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Speakers will be from Chatsworth Products, Inc., Shen Milsom & Wilke LLC, Innovative Research, Stulz-ATS and Universal Electric

St. Louis	**Tuesday, April 10**
Houston	**Thursday, April 12**
Minneapolis	**Thursday, June 14**
Philadelphia	**Tuesday, Sept. 25**
Research Triangle Park	**Thursday, Sept. 27**
Northern California	**Tuesday, Oct. 23**
San Diego	**Thursday, Oct. 25**

Register online for the complimentary seminar at:
www.chatsworth.com/data-center-seminar/

Use the #CPIseminar hashtag to tweet before, during and after seminars with feedback, suggestions & more.

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