



**Sunday, September 19, 2004**  
**8:00 AM– 12:00 Noon**

## **(2) ADVANCED BATTERY TECHNOLOGIES FOR TELECOM APPLICATIONS AS A SUBSTITUTE FOR LEAD-ACID SYSTEMS**

### **Tutorial Description**

Advanced battery technologies are being considered lately for standby applications in telecom and the utilities as a substitute for lead-acid systems. These technologies include nickel-metal hydride, secondary lithium, secondary zinc-air, sodium-sulfur and vanadium red-ox batteries. The success of these technologies greatly depends on battery shelf life, float life, temperature stability and safety.

In this tutorial, the differences in various battery technologies will be discussed in simple terms. The advantages and the disadvantages of any particular technology for standby applications will be pointed out and the critical factors which can affect system reliability will be discussed. Battery maintenance and monitoring issues will be addressed.

### **Who Should Attend?**

- OEM design engineers involved with and responsible for batteries, battery packs and battery backup systems.

- Developers and integrators of battery products and systems.
- System engineers working with standby, backup and uninterruptible power systems
- System integrators, value added resellers, dealers and manufacturers of batteries and battery packs
- IC and chipset providers
- Manufacturers of battery monitoring and testing equipment
- Managers seeking new applications, technology advancements and opportunities.

### **Benefits of Attending**

- Gaining understanding of the latest battery technologies.
- Selecting the correct battery for your application.
- Learning the critical, system level factors when using the latest technologies.
- Monitoring needs for the new technologies.
- Anticipate new technology development
- Determine the most cost-effective approach for your application.
- Opportunity to discuss your specific system needs.
- Improve system longevity.
- Maximize return on battery technology system investment.

### **About the Presenter**

**Dr. Subhas Bose Chalasani** has over twenty years experience in the battery industry and a **Ph. D.** in Electrochemistry. He is a results-oriented, creative and highly motivated technical professional with many years of experience in product development, project management and technical marketing. Subhas has a total of 15 patents and over 25 publications.

Subhas has held positions at Tyco Electronics, Lucent Technologies, AT&T Bell Labs, Power Systems, University of Texas at Arlington, TX and Loughborough University of Technology, England.