



IEEE-IAS INDUSTRY APPLICATIONS SOCIETY (BALTIMORE)



# MEETING

The Institute of Electrical and Electronic Engineers - Industry Applications Society are pleased to announce the upcoming Dinner Meeting. Information regarding the meeting is as follows:

**Date: Wednesday, March 21<sup>st</sup>. 2018**

**Time:** 6:00 – 7:00 Social Hour / Open Bar  
7:00 – 8:00 Dinner  
8:00 – 9:00 Program  
9:00 – 9:30 Follow-up / Social

## Topic: The Application of Lithium-ion Batteries into Data Centers

**Description:** Lithium-Ion batteries (LIB) are displaying promising benefits when used in conjunction with uninterruptible power supply (UPS) systems. Alongside these benefits lay questions from professionals regarding the installation and safety aspects of utilizing LIB compared to the traditional valve-regulated lead-acid.

Developing alongside right behind these moves are the codes and regulations required to effectively embrace LIB technologies. During this presentation, we will evaluate the UL standards and the recent NFPA 2018 Fire Code, including a new Section 5.23 on how to safely deploy LIB for Data Center applications. These requirements go into effect for Lithium-Ion systems that exceed 20KWh which equates to approximately a 50 kVA UPS. During the session, we will look closer at LIB performance as an energy storage solution and share insights in their application. Attendees will learn:

- Advantages and disadvantages of LIB vs VRLA lead acid
- Important LIB characteristics and distinctions between Lithium chemistries
- How Data Center LIB's differ from consumer Lithium ion batteries
- Understanding the impact of new standards and regulations in 2018 NFPA
- Understanding how the BMS effects the performance, selection and safety of LIB
- LIB performance observations as they differ from VRLA lead acid

**Speakers:** Director, Strategic Sales- AC Power, Vertiv Corporation

Mayo has 43 years experience in electrical power systems for Data Centers with the last 36 years as Liebert which evolved to Emerson Network Power and now to Vertiv. His unique, in-the-field knowledge, working with key market segments and customers in the Northeast United States, including the Washington DC government, Colo, Cloud and NYC Financial markets, has been in constant demand. Tabb has conducted extensive training in battery systems, monitoring, PDU, UPS systems and other electrical technologies providing AC power to the Data Center at numerous seminars and events. He has been heavily involved with the early and continuing adaption of the Lithium-Ion battery to the Data Center.

Mayo has a BS in Engineering from the University of Virginia, a Master's of Business Administration from Wake Forest University, and has spent his entire career in the computer power protection industry. Mayo is an active sailor on the Chesapeake Bay racing circuit and is involved in its administration for the past 15 years with PHRF.

**Cost: \$45.00 (Members Paid-in-Advance) Reservation Deadline: 3/19/2018**  
**\$50.00 (Non-members Paid-in-Advance / Members Paid-at-Door)**  
**\$50.00 (Non-members Paid-at-Door)**

**Place: Olive Grove Restaurant, 705 N. Hammonds Ferry Road, Linthicum Heights, MD 21090**

**Credits: 1 PDH (Professional Development Hour)**

**TO REGISTER, VISIT OUR WEBSITE AT <http://www.iasbaltimore.org> Credit cards accepted**

**Mail reservations to:** Leonard Bathgate, 9 First Avenue West, Glen Burnie, MD 21061  
phone: 443-790-5856 email: admin@iasbaltimore.org

**Make checks payable to: IEEE-IAS**

**Reservation Deadline: 3/19/2018**

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