

***The 42<sup>nd</sup> Battery Technology and Usage Workshop***  
***May 24 — 25, 2017***

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**EaglePicher Technologies** proudly announces that the **Yardney Division** will continue to offer a comprehensive 2-day Battery Technology & Usage Workshop at its 2000 South County Trail, East Greenwich, RI location. The 42<sup>nd</sup> Workshop will focus on:

- Operation & Performance
- Usage/Maintenance
- Safety
- Battery System Design
- Applications

**Workshop Schedule:**

May 24 & 25th, 2017 — 8:15 AM to 4:30 PM

**Registration and Fees: \$500.00** Fee includes all required materials, notebooks, daily luncheons and coffee, one orientation evening dinner. **Call/email to register: Lois Kisch 401-471-6580, ext. 314 or [Lois.kisch@eaglepicher.com](mailto:Lois.kisch@eaglepicher.com) (Space is Limited)**

**Payment: (Must be received prior to the start of Class)**

Checks payable to: EaglePicher Technologies, LLC  
PO Box 640666, Pittsburgh, PA 15264-0666

**Credit Cards:** VISA, MasterCard, American Express. **There are no refunds for credit card payments but attendee substitutions will be accepted.**

**Hotel:** (not included in fee) A block of rooms has been reserved at the **Hampton Inn**, Coventry, RI at the special rate of \$97/night.

[http://hamptoninn.hilton.com/en/hp/groups/personalized/C/CVTRIHX-EPT-20170523/index.jhtml?WT.mc\\_id=POG](http://hamptoninn.hilton.com/en/hp/groups/personalized/C/CVTRIHX-EPT-20170523/index.jhtml?WT.mc_id=POG)

Please use this convenient link for reservations. The hotel is approximately 4½ miles from the facility. *EaglePicher is not responsible for any hotel cancellation charges, penalties, or billing discrepancies.*

Note: The nearest full service airport is T.F. Green in Warwick/Providence, RI (PVD) (15 minute drive on Interstate 95).

**Who Should Attend:** This workshop is designed for engineers, scientists, technicians or others involved in the selection, activation, handling, testing, maintenance and installation of high energy-density batteries.

**Course Description:** Batteries are probably the least understood critical component in any power system. The knowledge and experience gained during this workshop will enhance the end users' overall perception of batteries. The workshop will familiarize the attendee with the unique attributes of Silver-Zinc and Lithium-ion batteries. The training received will provide the user with invaluable information on different battery capabilities and thus avoiding costly battery usage and selection mistakes.

The format emphasizes a "hands-on experience". The course includes a survey of electrochemical couples, operation and performance characteristics, design considerations, maintenance and usage and environmental and safety related issues. Both primary and secondary systems will be discussed. The emphasis of the workshop will be on the practical, rather than theoretical aspects of battery technology.

Each participant will build his/her own Silver-Zinc or Lithium-ion battery cell, and discharge it in the laboratory. **Please select choice of cell during registration.**

**About EaglePicher/Yardney Division:** Yardney has been a leader in Silver-Zinc battery technology since 1944, when Michel Yardney and Professor André first developed a working rechargeable battery and has been involved on almost every major program where high energy-density batteries are required.

With the merger of EaglePicher Technologies and Yardney Technical Products, the company continues to grow and diversify in all facets of battery technology, as a world-leader in advanced battery systems.

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**Workshop Topics**

- Basic Electrochemistry
- Design Parameters
- Components (Electrodes, Separator, Hardware)
- Battery System Design
- Factors Affecting Performance
- Comparison of Electrochemical Couples
- Safety Mechanisms
- Usage and Maintenance
- Activation, Handling of Electrolyte
- Charging/Discharging
- BMS
- Failure Modes
- Applications
- Handling of Activated Cells/Batteries
- Build, and Test Your Own Cell

*Alex Karpinski – Workshop Director*

**Instructors:**

Susan Russell - Silver Technology (Secondary)

Jim Dick - Silver Technology (Primary)

Frank Puglia - Li-ion R&D

Dr. Rob Gitzendanner - Li-ion Technology

Arthur Doble - Business Development

Alex Buonanno - Li-ion Safety

Stu Santee - Li-ion Design & Performance

Lithiumstart - Battery Management System

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