
Batteries & Fuel Cells Seminar

Shmuel De-Leon
Energy Ltd 

About Batteries & Fuel Cells Seminar

The seminar program focuses on present and future needs of portable and stationary electrochemical energy sources and highlights the latest technological developments designed to satisfy application requirements.

The seminar program reviews primary, rechargeable, reserve, commercial, industrial and military batteries, fuel cells, ultra capacitors system and their accessories.

The seminar program reviews typical cycle life aspects of designing and manufacturing energy source solutions: from application energy requirements, power source electrical and mechanical design, cells selection, cells evaluation tests, battery prototype, acceptance tests, design and manufacturing techniques, testing, mass production, safety issues, transportation, use and disposal.

Special focus is given to battery design and testing aspects which are vital tools for battery solution.

The seminar program trains attendees on safety issues along the energy source solution cycle life.

The seminar program also reviews the updated status of battery air transportation restrictions and instructs on the safe transport of batteries according to IATA regulations.

Key Benefits

Batteries & Fuel Cells Seminar provides:

- Full review of current and future electrochemical energy sources.
- Training on cells and raw material selection, design, manufacturing, testing, safety, transportation and disposal aspects of energy sources.
- Basic knowledge for new employees entering the field.
- Expands the knowledge of industry members already working in the field.
- Training on Energy Sources Database software – a vital tool for optimal energy source design.

Seminar Program Topics

- Battery characteristics
- Primary cells & batteries
- Rechargeable cells & batteries
- Battery chargers
- Military Batteries
- Thermal & reserve batteries
- Battery design process
- Battery design optimization
- The Energy Sources Database
- Battery safety
- Battery air transportation
- Battery disposal
- Smart batteries
- Battery testing systems
- Battery holders
- Fuel cells
- EVs energy solutions

Seminar Schedule

- The seminar is 2 days long
- 2nd and 3rd of May 2012

Seminar Location

The Moat House Hotel
Etruria Hall
Festival Way
Stoke-on-Trent
Staffordshire

Hotel Bookings:

+44 (0) 845 7767676

(or ask Accutronics to make your
Hotel reservation for you (customers to
Settle their own account on departure)

Who should attend?

Battery and energy sources users
Pack assemblers
Cell makers
Energy sources suppliers
Academic researchers
R&D engineers
Market researchers
Safety supervisors
Battery shippers and disposals
Others industry members
Anyone who wants to increase their power sources background

About Shmuel De-Leon

Shmuel De-Leon is Founder and CEO of the company. Shmuel is a leading international expert in the business of Power Sources. Prior to founding the company, Shmuel held for over 20 years various positions as a power sources, engineering and quality control team manager. Shmuel holds a BSc. in mechanical engineering from Tel-Aviv University and an MBA in quality control and reliability engineering from the Technion Institute in Haifa as well as an Electronic Technician's diploma.

Shmuel De-Leon Energy Ltd. provides unique tools for the energy sources industry, such as the Energy Sources Database, Battery & Fuel Cells Seminar, Energy Sources Solutions, Industry News weekly newsletter, and consultations.

In Partnership with:

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Pricing

- £499 + VAT per attendee
- 10% discount for 3+ attendees
- 2 places reserved for students at a cost of £249.50 + VAT
- Printed copy of notes included



Batteries & Fuel Cells Seminar - in partnership with Accutronics Ltd

Wednesday 2nd May 2012

08:00-08:30	Registration
08:30-09:30	Battery Characteristics
09:30-10:30	Primary Cells & Batteries
10:30-11:00	Coffee Break
11:00-12:15	Rechargeable Cells & batteries
12:15-12:45	Chargers
12:45-13:45	Lunch
13:45-14:05	Military Batteries
14:05-14:25	Thermal & Reserve Batteries
14:25-15:30	Battery Design Process & Optimization
15:30-16:00	Coffee Break
16:00-17:00	Accutronics Presentation
17:00-18:00	Battery Safety

Thursday 3rd May 2012

08:00-08:30	Registration
08:30-09:30	Battery Air Transportation
09:30-10:30	Battery Disposal
10:30-11:00	Coffee Break
11:00-12:00	Smart Batteries
12:00-13:00	Battery Testing Systems
13:00-14:00	Lunch
14:00-14:30	Battery Holders
14:30-15:00	Fuel Cells
15:00-15:30	EV Energy Solutions – Part 1
15:30-16:00	Coffee Break
16:00-17:00	EV Energy Solutions – Part 2
17:00-18:30	Tour of Accutronics Battery Assembly Facility (Optional)

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Contact Neil Oliver or Melissa Whitfield

The price for this two day seminar is just **£499 + VAT**.

Contact us on +44 (0) 1782 566688 to book your place.

Discounts are available for student and group bookings.

accutronics
professional battery solutions



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Seminar Content - Wednesday 2nd May 2012

Battery Characteristics

This session introduces a historical prospective of batteries, detailed battery definitions and features (electrical, mechanical, standards, etc.). Module 1 lays the foundation for the attendants to share a common "battery language" and provides all the background needed for upcoming modules.

Primary Cells & Batteries

This session reviews and compares primary battery chemistries (Alkaline Manganese Dioxide, Zinc Carbon, Zinc Chloride, Silver Zinc, Nickel Oxyhydroxide, Lithium Iron Disulfide, Lithium Iodine, Lithium Manganese Dioxide, Lithium Carbon Monofluoride, Lithium Sulfur Dioxide, Lithium Thionyl Chloride, Lithium Sulfuryl Chloride, Lithium Bromine Chloride and High Power Organic Lithium).

Rechargeable Cells & batteries

This session reviews and compares rechargeable batteries chemistries (Nickel Cadmium, Nickel Metal Hydride, Rechargeable Alkaline, Lithium Ion and Lithium Polymer).

Chargers

This session reviews battery chargers, charging techniques per battery chemistry, charging problems and solutions, personal chargers, industrial chargers and charger types by charging time.

Military Batteries

This session reviews and compares Military batteries & Chargers (Primary, Rechargeable Batteries).

Thermal & Reserve Batteries

This session reviews and compares Thermal and Reserve batteries (Thermal Batteries, Reserve Lithium Batteries, Reserve Zinc Air, Reserve Magnesium Silver Chloride and Reserve Silver Zinc).

Battery Design Process & Optimization

This session introduces battery design processes (cell and raw materials selection, cell level testing, battery design documents, battery electrical, mechanical and safety design and final verification tests (electrical, mechanical, safety).

Accutronics Presentation

Accutronics is the UK's leading independent battery design, development and manufacturing company for high performance portable and handheld electronic devices, specialising in the development and manufacture of 'smart batteries'.

Battery Safety

This session introduces the safety risks along the battery cycle life and provides safety guidelines for safety event elimination. This module also addresses the procedures involved in handling safety events, including first aid.



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Seminar Content – Thursday 3rd May 2012

Battery Air Transportation

This session reviews the status updates of battery air transportation restrictions and reviews safe air transport of batteries, according to IATA and US DOT regulations.

Battery Disposal

This session introduces battery disposal requirements and updates disposal status in Europe and the US.

Smart Batteries

This session introduces 'Smart Battery' technology, including single wire and smart battery communications bus and its advantages.

Battery Testing Systems

This session introduces battery testing techniques, available systems and their features.

Battery Holders

This session introduces and reviews the common market battery holders and guides on how to select the right battery holder for your battery.

Fuel Cells

This session reviews and compares fuel cell types and their market status (Alkaline, Molten Carbonate, Phosphoric Acid, Proton Exchange Membrane, Solid Oxide and Direct Methanol).

EV Energy Solutions

This session introduces EVs driving range problem and energy solutions.

Tour of Accutronics Battery Assembly Facility

Delegates are invited to take a tour of the Accutronics battery assembly facility. The facility is ten minutes from the hotel. Transportation to and from the hotel will be provided.