

Ice Seminars

ein KnowledgeTool von Iceventure

Expertenwissen zu Batterien, Software as a Service, Innovation
und Wirtschaft 2030

Ein Auszug aus unserem Seminarangebot

Themengebiet: Batterien, Akkus und Brenn-
stoffzellen

2015

Iceseminars | Gottfried-Keller-Weg 6 | 85757 Karlsfeld | Office: +49/8131/506249

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Batteries, Super Capacitors, Fuel Cells & EV's Seminar July 1st -2nd, 2015 – Oberschleißheim, Greater area Munich, Germany

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 program reviews primary, rechargeable, reserve batteries, fuel cells, ultra-capacitors systems 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 program trains attendees on safety issues along the energy source solution cycle life.

The program focuses on electric vehicle and Batteries, Super Capacitors, Fuel Cells and Metal Air systems for EV's.

Key Benefits

Batteries & Fuel Cells Seminar provides:

- Full review of current and future electrochemical energy sources.
- Training on cells selection, design, manufacturing, testing, safety, and transportation and disposal aspects of energy sources.
- Basic knowledge for new industry members 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
- Lithium rechargeable cell Manufacturing process
- Battery chargers
- Military batteries
- Thermal & reserve batteries
- Battery design process
- Battery safety
- Battery disposal
- The "smart battery"
- Battery testing systems
- Energy storage for the grid
- Fuel cells
- Ultra Capacitors
- The E-Mobility revolution
- xEV's Batteries
- xEV's Fuel Cells and Metal Air systems
- xEV's battery swap
- xEV's Charging infrastructure

Seminar Schedule

July 1st 2nd, 2015

Seminar Location

Orbis – Das Seminarraumkonzept
Bruckmannring 32, 85764
Oberschleißheim, Greater Area
Munich

www.orbis-muenchen.de/seminarraeume.html

Local Partner

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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
- E-Mobility industry members
- Others industry members

About Shmuel De-Leon

Shmuel De-Leon is Founder and CEO of Shmuel De-Leon Energy, Ltd.

Shmuel is a leading international expert in the business of Power Sources, Energy storage and Ev`s.

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 BSc. in mechanical engineering from Tel-Aviv University and 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 Consulting, Training, Conference organizer, Market research reports Market research reports Energy Sources Database, Market research reports, Energy Sources Solutions, Industry News weekly newsletter.

Seminar Pricing

	Commercial	Academic *
<u>Early Registration Discount until June 1, 2015</u>	€ 810 + VAT	€ 405 + VAT
<u>Registration from June 2, 2015</u>	€ 929 + VAT	€ 465 + VAT

* Copy of an Academic Institute ID is required

** 10% discount for 3+ group attendees

*** Pricing includes hard copy print out of all seminar presentations, lunch & refreshments

Exhibitor and Sponsor will receive:

- 1 roll-up display at the seminar room
- Advertisement materials on a side table in the seminar room
- Logo in the seminar program, agenda and seminar web site
- Extra 10% discount on attending the seminar

Pricing: € 475 + VAT

Wednesday, July 1, 2015

08:00 – 08:30 Registration

08:30 – 09:30 Module 1: 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.

09:30 – 10:30 Module 2: 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).

10:30 – 10:45 Coffee Break

10:45 – 12:15 Module 3: Rechargeable cells & batteries

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

12:15 – 12:35 Module 4: Lithium Rechargeable Cells Manufacturing Process

This session reviews manufacturing process techniques for conventional and pouch cells.

12:35 – 13:00 Module 5: 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.

13:00 – 14:00 Lunch Break

14:00 – 14:30 Module 6: Military Batteries

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

14:30 – 15:00 Module 7: Thermal & Reserve Batteries

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

15:00 – 16:15 Module 8: 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).

16:15 – 16:30 Coffee Break

16:30 – 18:00 Module 9: Battery Safety

This session introduces the safety risks along the battery cycle life and provides safety guidelines for safety event elimination. Module 8 also addresses the procedures involved in handling safety events, including first aid.

Thursday, July 2, 2015

08:30 – 09:00 IceVenture Presentation

09:00 – 09:25 Module 10: Battery Disposal

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

09:25 – 09:50 Module 11: The "Smart Batteries"

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

09:50 – 10:30 Module 12: Battery testing systems

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

10:30 – 10:45 Coffee Break

10:45 – 11:30 Module 13: Energy Storage for the Grid

This session introduces and reviews the common energy storage systems for the grid.

11:30 – 12:30 Module 14: 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).

12:30 – 13:30 Lunch Break

13:30 – 14:15 Module 15: Ultra Capacitors

This session reviews and compares ultra capacitor types and their market status.

14:15 – 17:00 Module 16: EV Energy Solutions

This session introduces EVs driving range problem and energy solutions.

- The new electric automotive revolution
- EV Batteries
- EV Fuel Cells
- EV Metal Air systems
- EV Battery SWAP
- EV Charging infrastructure

Pre-Registration Form - Energy Storage Seminar
July 1st – 2nd , 2015

Contact Details (*Required)

Company * First Name* Last Name*

Title City* Zip Code*

Street* Country* State

Phone* Mobile Fax

Email*

I herewith accept the general terms and conditions of Iceseminars

*Please complete the registration form and return to:

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Innovation & Businessfacilitation

Möchten Sie das Innovationspotential Ihres Unternehmens freizusetzen?

Dieser Workshop richtet sich an Unternehmen aller Größen und Branchen, die Innovationspotential in Ihrer Organisation freisetzen möchten, ohne gleich einen kompletten Innovationsprozess durch externe Berater neu zu implementieren.

Der Workshop greift eine von Unternehmen benannte Problem/Fragestellung auf. Diese wird mit einem bewährten Prozess mit Ihnen und unseren Facilitatoren bearbeitet, um systematisch-kreativ neue Ideen und Innovationen zu generieren.

Ziele und Mehrwert

Als Prozessexperten schalten Sie uns genau in der folgenden Situation dazwischen: Die Informationsunsicherheit ist zu groß ist, um eine große Planung mit allen Fachabteilungen zu beschreiten. Auf der anderen Seite ist der Bedarf da, schnell und kompetent Ideen und Innovationsansätze zu generieren und bewertet. Damit sparen wir Ihnen durch die richtige Dimensionierung und unseren Input Geld und Zeit.

Zielgruppe

Als Prozessberater funktioniert unsere Methodik in Innovationssituationen in jedem Industriezweig und Produktbereich. Sie eignet sich nicht für Technologieverbesserung durch Forschungsleistung.

Features	Ort:
Ihre Innovationsfragen und Ideen werden durch externes Feedback und Blickwinkel in neue Dimensionen gehoben	bei Ihnen vor Ort
bewährter Prozesse	Großraum München sowie bundesweit
effizient und kostengünstig	

Weitere Informationen

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