

2nd INDUSTRIAL ON-SITE LITHIUM-ION CELL PRODUCTION TECHNOLOGY SEMINAR

- October 23 - 24, 2017 -

Itzehoe, Germany

Presented by Custom Cells, Fraunhofer and Shmuel De-Leon

This seminar focusses of the industrial preparation of lithium ion pouch cells. In practical modules, the cell assembly will be performed hands on by starting with the raw material and going up to the final cell and characterization. The corresponding lecture program gives insights in the latest pouch cells technology trends on the material and on machinery as well as on processing side.

The battery training takes place on site at Custom Cells production facility and the Fraunhofer ISIT as Custom Cells R&D partner in north Germany.

Key Benefits

The seminar provides

- practical sessions to learn about all lithium ion cell production steps
- direct insight into a state of the art lithium ion cell production line
- supporting lectures on every practical session; technology, processes and machinery
- updates about the latest technology trends in lithium ion batteries

Who Should Attend?

- Automotive Industry Manger
- Chemical Industry Manager
- New Technology Startups
- Pack Assemblers
- Energy Storage Supplier
- Academic Researchers
- Energy Storage/Power R&D Engineers
- Other Industry Members

Seminar Program Topic

Practical on-Site Sessions

- Slurry preparation
- Material handling
- Coating process
- Cell assembly
- Electrolyte filling
- Sealing
- Formation process
- Cell characterization

Lectures

- Technology overview
- Active Materials
- Coating machinery
- Electrode characterization
- Customizing batteries
- Automation machinery
- Electrolyte additives
- Next generation technologies



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October 23, 2017

- 8:30 Registration
Fraunhofer ISIT, Fraunhoferstr. 1, 25524 Itzehoe
- 9:00 **Welcome to "Industrial battery manufacturing -training-"**
Torge Thönnessen (CEO, Custom Cells) and
Shmuel De-Leon (CEO, Shmuel De-Leon Energy, Ltd)
- 9:30 **Safety instructions**
Dr. Daniela Werlich (Senior Project Manager, Custom Cells)
- Practical Session I**
- 9:45 **Anode and cathode slurry preparation**
-practical training in two groups-
- 10:30 Coffee break
- Talk Session I**
- 11:00 **Overview about material for the production of Li-ion cell electrodes**
Dr. Andreas Würsig (Group Leader, IES, Fraunhofer ISIT)
- 11:45 **Modern Active Materials for improved Li-ion cells**
N.N.
- 12:30 Lunch break
- Practical Session II/Talk Session II**
- 13:30 **Anode coating on roll to roll coating line**
- practical training in two groups-
Advanced machinery for electrode coating
Clemens Disch (Area Sales Manager, WERNER MATHIS AG)
- 15:00 Coffee break
- Talk Session III**
- 15:30 **Battery Essential**
Shmuel De-Leon
- 16:15 **Characterization of Electrodes with laboratory equipment**
Iris Zwanziger (Director of Marketing and Sales, EL Cell GmbH)
- 17:00 **Customizing of Lithium Battery Cells**
Dr. Daniela Werlich (Project Manager, Custom Cells)
- 17:45 **Conclusion first day**
Dr. Daniela Werlich (Senior Project Manager, Custom Cells)
- 20:00 **CCI invite for a Get together and dinner**

October 24, 2017

- 7:30 Registration
Fraunhofer ISIT, Fraunhoferstr. 1, 25524 Itzehoe
- Talk Session IV**
- 8:00 **Modern machines for automated cell manufacturing**
Dipl. Ing. Oliver Zink (Project leader R&D, Jonas & Redmann Group GmbH)
- 8:45 **25th anniversary of the liquid electrolyte in lithium ion batteries**
Ralf Wagner
- 9:30 **From Characterization of Li-ion cells to Module and System Level**
Dipl.-Ing. Christian Werlich (Project Manager, IES, Fraunhofer ISIT)
- 10:15 Coffee break
- Practical Session III**
- 10:45 **Assembly of pouch Cells**
-practical training-
Cutting
Stacking
Tab Welding
Pouch Packing
Electrolyte Filling
Formation
- 12:45 Lunch break
- Talk Session V**
- 14:00 **Battery Safety**
Shmuel De-Leon
- 15:30 **Next generation cell technology**
Dr. Andreas Würsig (Group Leader, IES, Fraunhofer ISIT)
- 16:15 **Tour through Fraunhofer ISIT**
- 17:00 **Battery Supply chain**
Shmuel De-Leon
- 18:45 **Summarization and Catch-up**
Dr. Daniela Werlich (Senior Project Manager, Custom Cells)

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Seminar Pricing

Commercial	Academic *
€ 3,100 + VAT	€ 1,550 + VAT

* Copy of an Academic Institute ID is required

10% discount for 3+ group attendees.

The number of participations is limited.

Pricing includes hard copy print out of all seminar presentations, lunch, refreshments and an invitation for a get together and dinner.

Booking is concluded after receiving confirmation.

The organizer is allowed to reject potential participants in exceptional cases.

Cancellation of registration:

Written notice only will be accepted:

Until October 10, 2017 – 50% refund

From October 11, 2017 – No refund

Remarks:

In case that the seminar will have to be cancelled due to force majeure, due to speaker's preventions or due to lack of participants, the participants will be informed accordingly no later than 7 days before the event. The event fee will be refunded in this case.

In case of cancellation of the seminar up to 7 days before the event, a claim for compensation for travel or accommodation costs is excluded.

Presented and supported by:



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