

Lithium Ion battery

The Inception, Development and Future



**Symposium by Dr. Akira Yoshino (Asahi Kasei Corporation),
Dr. Susanne Bjärsvik (Volvo Cars Corporation) and Prof. Per Jacobsson
(Chalmers University of Technology) on Friday, March 8th, 2013**

The symposium is focused on highlighting the development and future of the lithium-ion battery (LIB), gaining perspective on the key to success in research and development, know-how in launching a new business, and how to forecast future market developments. It includes a lecture from Dr. Yoshino on “The course of development of the lithium-ion battery and outlook for the future”, as well as presentations of implementation of Li-batteries in hybrid vehicles (Dr. Susanne Bjärsvik, Volvo Cars Corporation) and about current research at Chalmers on new Li-battery materials and concepts (Prof. Per Jacobsson).

The current commercial LIB was invented by Dr. Yoshino in 1985. With its small size and light weight, the LIB rapidly became the mainstream in mobile phones, laptop computers, and many other portable electronic devices which have extended access to information throughout society. The global LIB market has grown to some seven billion UK pounds (one trillion Japanese yen), and the research is increasingly concentrated on application of the LIB to large-scale systems including transportation, load-leveling in smartgrids, and stationary power storage.

Symposium Programme

- 10:00 Registration & Coffee
- 10:30 Welcome & Opening Remarks
Prof. *Aleksandar Matic*, Director of Area of Advance Materials Science, Chalmers
Mr. *Nobuyuki Kawashima*, Executive Director, The Chemical Society of Japan
- Implementation of Li-batteries in Hybrid Vehicles
Dr. *Susanne Bjärsvik*, Volvo Cars Corporation
- New materials and concepts for Li-batteries
Prof. *Per Jacobsson*, Chalmers University of Technology
- The course of development of the lithium-ion battery and outlook for the future
Dr. *Akira Yoshino*, Asahi Kasei Corporation, Inventor of the Lithium Ion Battery
- 12:15 Lunch and discussions including a poster session

More information

- Date:** Friday March 8th, 10:00–13:00.
- Venue:** Chalmers University of Technology, Scania Salen, Gothenburg, Sweden.
- Registration:** RSVP no later than March 4th to mt@iva.se. Please write the following information: Name, Title, Organisation, Position and Speciality. The seminar is free of charge. The number of participants will be limited
- More info:** Contact *Kicki Edman*, Sweden-Japan Foundation, info@swejap.a.se, +46-8-611 68 73.