4th Developer Forum batteryuniversity.eu shows the latest battery trends and technologies

ECN Europe

The *4th Entwicklerforum Akkutechnologien* (Developer Forum Battery Technologies), hosted by the batteryuniversity.eu, takes place on March 23 and 24, 2011 in the "Stadthalle Aschaffenburg", Aschaffenburg, Germany. Attendees are offered more than 30 presentations by leading experts on current topics such as the latest battery technologies and chemicals, reliability and lifetime of batteries, charger technologies, regulations and standards, United Nations transportation regulations for lithium batteries, battery test equipment, safety of large rechargeable batteries, protection circuits, battery drive systems and power management for electric and hybrid vehicles, fuel cells and a lot more.

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Held for the first time in 2008 and with more than 550 attendees last year, the *Entwicklerforum Akkutechnologien* hosted by the batteryuniversity.eu has developed into one of the most important forums of experts in the battery industry within a short period of time. Sven Bauer, founder of the batteryuniversity.eu, believes he also knows the reasons for this. "The trend toward maximum possible mobility and environmentally friendly energy supplies has given the topic of battery technologies a completely new significance in recent years. Our forum offers attendees the otherwise only rarely found opportunity, with comparatively little expenditure of time, to gather information about all key trends and new developments in direct dialog with specialists of the participating companies including A123Systems, BMZ GmbH, Deutsche Gesellschaft für Sonnenenergie, Digatron Industrie-Elektronik GmbH, Fraunhofer Institut Integrierte Schaltungen IIS, Fraunhofer Institute for Silicate Research ISC, FSM Elektronik GmbH, KMS Automation GmbH, Leclanché SA, Linear Technology, Maxell Deutschland GmbH,

Maxwell Technologies GmbH, Microchip Technology GmbH, Panasonic Electronic Devices GmbH, Panasonic Industrial Europe GmbH, RRC power solutions GmbH, Saft Batterien GmbH, Samsung SDI, SFC Energy AG, Sony Deutschland GmbH, Texas Instruments, TEXSYS GmbH, Toshiba Corporation, TÜV Rheinland LGA Products GmbH, Tyco Electronics Raychem GmbH, Umicore AG & Co. KG, VDE Prüf- und Zertifizierungsinstitut GmbH and ZVEI Fachverband Batterien. This possibility of a simple and direct exchange of information is valued both by the forum attendees and the speakers in equal measure."

Seminars, which take place in parallel to the expert forum of the two-day conference, are also offered: *Grundlagenschulung "Akkutechnologien"* [2] (Basic training "battery technologies" – general fundamentals, principles and construction of various lithium-ion batteries and charging technology) and Basiswissen "Zellchemien" *[3]* (Basic knowledge "cell chemistries" – construction and functional principles of various battery technologies, regulations and standards for battery packs, certification according to UN, IEC, EN and UL standards, United Nations transportation regulations and tests, effects on the housing design and hazardous materials analysis according to RoHS and REACH) as well as *Seminar "Normen und Gesetze"* (Seminar "standards and regulations" – a detailed look into the regulations for batteries that are valid in Europe regarding safety, environment and health).

During the two days, there is also the opportunity to gain some practical experience. For example, a 4 hour seminar is dedicated to the development of power-saving systems with Microchip's nanoWatt XLP microcontrollers. In exercises on laptops, attendees learn more about system design techniques for a power-saving external circuit, diverse power-saving modes of on-chip peripherals, various power profiles and dynamic clock frequency control.

Furthermore, in the *"Do-it-yourself"* battery workshop, attendees are offered the opportunity to equip their old personal battery pack with new batteries under professional supervision.

Combined with the conference is an exhibition, which is open both days from 8:00 AM to 6:30 PM, where attendees can get detailed information and advice from the experts about their latest cell, battery and charger unit products. Manufacturers of electronic components and test equipment are also present. Finally, at the *"Fun Parcours"* on the Schlossplatz attendees can test the driving feeling of Segways, electric bikes, pedelecs and electric automobiles.

The attendance fee for the complete 2-day *Entwicklerforum Akkutechnologien* including breakfast, lunch and coffee buffets, after-show snacks and all forum documentation is 690 EUR plus 19% MwSt. (German Value Added Tax) per person. The fee for a one-day attendance is 350 EUR plus 19% MwSt. per person.

The main language of the conference is German. Only a few presentations will be held in English. The detailed program of events and registration form can be downloaded from the homepage www.batteryuniversity.eu [4] or requested by sending an email with the subject line "4. Entwicklerforum Akkutechnologien" to

forum@batteryuniversity.eu.

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