

Press release

Hochschule Esslingen

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Transfer of Science or Research
Energy, Environment / ecology, Traffic / transport
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Sustainable Energy Technologies and Innovative Mobility

At the Hannover Trade Fair 2015 the federal state of Baden-Wuerttemberg shows its rich scientific landscape on a combined stand. Esslingen University of Applied Sciences is among the presenters with the topics of mechatronics, electro-mobility and energy. In Hall 2 Stand A18, from 13th – 17th April, exciting exhibits await interested visitors.

As an international leader, the Hannover Trade Fair 2015 brings together a wide spectrum of key technologies in the industry. It is the place to be seen, in which companies show their innovations and build bridges between related technologies. Under the key theme “Integrated Industry – Join the Network!” the challenges facing industry 4.0 are in focus this year. From machine-to-machine-communication via data security to the business models of the future: Esslingen University of Applied Sciences is also using Hannover Trade Fair to exchange ideas with representatives from the industry and to present its research findings.

At the exhibition stand different exhibits are shown, among them an electric children’s sit-on car with a solar panel. To create it, a standard vehicle was newly equipped – with an electric motor, battery pack and motor and charge controller. Thus, electro-mobility can be experienced in a playful way: the little car includes an accelerator pedal and brakes as well as special features such as automatic lighting, horn and indicators, and even safety functions and reversing are possible.

Innovative concepts for electrical charging are also a topic in Hannover. Esslingen University of Applied Sciences is presenting wireless energy transfer. It demonstrates, on the one hand, direct current charging from electrically driven vehicles, and on the other, the transfer and storage of energy produced from regenerative sources. This technology is not only groundbreaking in the area of electro-mobility; its use is also possible without additional transfer losses. Any fears concerning electric smog can also be dissipated.

Esslingen University of Applied Sciences also presents decentralised energy storage and energy management with its latent heat reservoir: a demonstration model was specially developed for the trade fair to show how thermal energy can be stored and discharged at any time by changing the aggregate state. Here, the principle “Power to Heat” – that is, the new approach for changing electrical energy into heat is in focus. “We are not carrying out research in an ivory tower”, explains Prof. Dr. Ulrich Nepustil from the Faculty of Engineering Management. Temporary excesses in electricity production provide special challenges for the future – and thereby an important field of research for Esslingen University of Applied Sciences.

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Information about Esslingen University of Applied Sciences

“Close to People and Technology” – under this motto, Esslingen University of Applied Sciences ensures an academic training in the areas of engineering, management, social and nursing sciences. Around 6,100 students are enrolled in 26 Bachelor’s- and 12 Master’s degree courses. Excellent teaching, combined with a large practical component, has a high priority at the University. Interdisciplinary projects ensure that technical and social developments are addressed early. The University is also strong in applied research.

URL for press release: <http://www.hs-esslingen.de/en/>