



Das BFH-CSEM-Zentrum Energiespeicherung ist an der Expo 2017 in Astana vertreten

Das Thema der diesjährigen Weltausstellung Expo 2017 ist «**Future Energy: Action for Global Sustainability**» (Energie der Zukunft: Maßnahmen für weltweite Nachhaltigkeit). Dabei soll die ausreichende und gesicherte Versorgung mit Energie in Entwicklungsländern genauso thematisiert werden wie der Übergang von fossilen zu erneuerbaren Energien.

Das BFH-CSEM-Zentrum Energiespeicherung (ESReC) beteiligt sich zusammen mit swissuniversities und anderen Hochschulen der Schweiz und im Ausland an einem zweitägigen Open International Seminar zum Thema «**Towards Smart Sustainable Cities – Integrated Approaches**». Die Vorträge seitens ESReC decken die Themen Elektrische Energiespeicherung, Elektromobilität und Integration erneuerbarer Energien ab und finden vom 14. bis 15. Juni statt.

Die Weltausstellung Expo 2017 findet vom 10. Juni bis 10. September 2017 in Astana, der Hauptstadt von Kasachstan, statt.

Abstracts der Vorträge

Prosumers: Facilitated Integration of Renewable Energy Sources through Stationary Battery Systems (presentation, Q&A) – Presented by: Dr. Alejandro Santis, BFH-CSEM Energy Storage Research Centre

14 June 2017 (Afternoon session)

The widespread growth of decentralized micro-generation (particularly PV) means that consumers are interacting with electricity supply systems in new ways, becoming «energy prosumers» – both producing and consuming energy. Such «prosumerism» has the potential to create challenges for grid management. The talk seeks to provide an overview on the research and development activities at BFH within the framework of the project Prosumer-Lab, which deals with the topic of integration of prosumer into the distribution grid. One of the main goals of the project is the optimization of own consumption using optimal grid behavior as boundary condition for the sake of achieving an optimized integration of decentralized prosumers into the distribution grid and thus a win-win situation between prosumers and grid operators.

Have E-Vehicles finally arrived? Battery assisted vehicles and future developments (presentation, Q&A) – Presented by: Dr. Alejandro Santis, BFH-CSEM Energy Storage Research Centre



15 June 2017 (Afternoon session)

The current momentum in the electrification of the traditional drivetrain in passenger cars as well as the growing number of pure electric driven vehicles fuels hope for a transition towards a more sustainable mobility. Unfortunately, the advent of electric vehicles has been announced before and failed on its promises. We have therefore to ask ourselves what is different this time, especially what progress has been made or can be expected in the near future to justify this new hype? The presentation will focus on key technological innovations made in the last years as well as what can be expected in the field of batteries and electric mobility. In the second part of the presentation, some example projects that are currently carried out at the research centre will be presented.

Programm:

→ <https://www.zhaw.ch/storage/engineering/institute-zentren/ine/energiesysteme/expo-astana/seminar-program.pdf>

Weitere Informationen:

<https://expo2017astana.com/en/>

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