

4th Day of eMobility Ingolstadt

10/05/2014

- 10.00-16.00 Exposition of eCars, eBikes, industry presentations, Brazilian presentations, result presentation of II. eMobility Forum Ingolstadt Brazil 2014
- 10.00 **Welcome**
Prof. Dr. Walter Schober, THI
Dipl.-Ing. (FH) Rainer Wetekam, VDI
Prof. Cardozo, UFSC
Kurt Sigl, Bundesverband eMobilität
- 10.30 **Introduction**
eMobility – current state of play
Kurt Sigl, BEM - Bundesverband eMobilität
- 11.15 *Brazil – Country of renewable mobility?*
Wagner Chugaste, Director of Mercosur-Project Office in Frankfurt
- 12.00 *eMobility in Brazil – A general perspective of electric vehicles in Brazil*
Prof. Dr. Cardozo, UFSC
- 12.45 *Why do some vehicles advance more than others? About power density of battery cells and how much of them can be placed into a car.*
Prof. Hans-Georg Schweiger, THI
- 13.30 *Diminishing resources and climate protection as key factor driver of new eMobility*
Volker Blandow, TÜV Süd Battery Testing GmbH
- 14.15 *CARMEQ standardisation of connector systems*
Monika Bock, Kevin Konradt, CARMEQ
- 15.00 *eMobility in Bavaria Opportunities / Challenges / Perspectives*
Dr. Johann Schwenk, Bayern Innovativ GmbH



More information:

Technische Hochschule Ingolstadt

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Result presentation of II. eMobility Forum Ingolstadt Brazil 2014 and simulator test drives



Technische Hochschule
Ingolstadt

Invitation

II. eMobility Forum Ingolstadt Brazil 2014

05/05 - 10/05/2014



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Motivation

Within the larger framework of the *II. eMobility Forum Ingolstadt Brazil 2014*, an initiative of the German-Brazilian cooperation project *AWARE (Applied Network on Automotive Research and Education)* to promote sustainable mobility, Technische Hochschule Ingolstadt (THI) will offer a week of research activities and presentations with a particular focus on eMobility for students and Formula Student Members alike. Topics such as Lithium-ion batteries, battery safety and systems, drive train and driver assistance etc. will be experienced through lectures, practical exercises, applied research projects as well as practical input from industry partners.

As well as learning more about eMobility, the participants are offered an opportunity to get to know companies, researchers and other students interested in this field.

The *4th Day of eMobility* on Saturday will give a crowning finale to the forum, presenting all the results of the week and offering a variety of presentations about eMobility in Brazil addressed to a wide public from the city of Ingolstadt.

Programme

05/05/2014

- 9.00-10.00 **Robustness of HV battery systems**
Woong-Ki Kim, THI
12 V lithium ion starter batteries
Enrique Machuca-Garcia, THI
- 10.00-16.00 **Research Workshop**
- 16.45 -18.00* **Development, synthesis, and electrochemical characterization of new lithium borates and ionic liquids for lithium metal and lithium ion batteries**
Prof. (apl.) Dr. rer. nat. (habil.) H. J. Gores,
Elektrolyte-Elektrochemie,
University of Regensburg

06/05/2014

- 10.00-11.00 **Battery tester for education**
Fabian Steger, THI
Battery tester for education
Christoph Nebl, THI

- 11.00-16.00 **Research Workshop**
- 16.45-18.00* (D312) **Didactic solutions for eMobility: From basics to R&D**
Julian Stochmel, Area Sales Manager /Brazil,
Lucas-Nülle GmbH;
Michael Sowisdrat, Area Sales Manager /Bavaria,
Lucas-Nülle GmbH;
Robert Redling, Sales Manager /Universities,
Lucas-Nülle GmbH

07/05/2014

- 10.30-14.00 **Visit to AUDI**
- 17.00* (E103) **High-Voltage Electrical Machines and their use in the Electrified Powertrain**
Hubertus Welsch, Team Leader High Voltage Electrical Machines, EVA Fahrzeugtechnik GmbH
- 18.00* (E013) **Braking (just) for losers - eMobility strategy of Audi**
Thomas Müller, Head of Development of Braking, Steering and Driver Assistance Systems, Audi AG

08/05/2014

- 9.00-10.00 **Battery management and simulation for 12 V lithium ion starter batteries**
Sergej Vlasov, THI
Air cooled batteries: Simulation and experiments
Thai Long and Rai Giri, THI
- 10.00-16.00 **Research Workshop**
- 16.45-18.00* (E003) **Multiphysics battery simulation**
Lucas de Andrade Kostetzer, CAE Engineer,
ESSS /CADFEM GmbH

09/05/2014

- 9.30-10.00 **Battery management software for 12 V lithium ion starter batteries**
Jonas Löchel, THI
- 10.00-16.00 **Research Workshop**
- 16:45-18.00* (B108) **12 V NiMH Energy Recovery Systems - Improving the Performance of Idle Start Stop Vehicles**
Dr. Christopher Fietzek,
Manager Li-Ion Battery Development Group Europe,
Panasonic - Sanyo Component Europe GmbH

DAAD

ESSS

CADFEM

LN
LUCAS-NÜLLE

Bundesministerium
für Bildung
und Forschung

Audi

EVA

Panasonic

* Presentations are offered to a public audience

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