### Project Objectives:
- Simulation model for a battery electric vehicle
- University of Stuttgart (IVK) and the Center for Solar

#### Summer School Dates:
- Courses 1-3: 15. - 17.06.2016
- Course 4: 20. - 22.06.2016
- Course 5: 06. - 08.07.2016

#### Logistics:
**Format and Delivery Method:**
- Each course is a non-credit graduate level seminar, offered through lectures and lab sessions consisting of twenty hours.

**Materials:**
- A comprehensive set of notes will be provided on the first course day.

**Location:**
- FKFS, Pfaffenwaldring 12, 70569 Stuttgart, Germany

**Accommodation:**
- Commando Tagungshotel, Universitätsstraße 34, 70569 Stuttgart, Germany
- Please make your own reservations. Room allotment available until 1 June 2016.

**Social Evening:**
- Coffee breaks, lunch on every full course day and dinner on a social evening are included.

**Catering:**
- On the first or second evening of the course there will be a social get together during the evening. Reservations are requested.

**Mode of Payment:**
- By bank transfer upon invoice or by credit card.

**Group Discounts:**
- 2 participants of the same organization registering at the same time: 10% off registration.
- 3 participants of the same organization registering at the same time: 15% off registration.

**Cancellation Policy:**
- Cancellation charge 50 € for cancellations until 6 May 2016. In case of cancellation after this date full participation fee will be charged.

**Registrations:**
- Please make your own reservations. Room allotment available until 1 June 2016.

**Accommodation:**
- Commando Tagungshotel, Universitätsstraße 34, 70569 Stuttgart, Germany

**Location:**
- FKFS, Pfaffenwaldring 12, 70569 Stuttgart, Germany

**Contact:***
- Dr. Ing. Michael Grimm
- Phone: +49 711 685-68123
- Pfaffenwaldring 12

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#### Registration:
**Stuttgart International Summer School**

*Please fax or email until 1 June 2016 to:*

- Franziska Schubert
- Fax: +49 711 685-65710
- franziska.schubert@fkfs.de

**Family and first name**

**Company/Institute**

**Postal code/City**

**Function**

**Street/P.O. box**

**Country**

**Phone, Fax**

**E-mail**

**Invoicing address (if different from above address)**

**Mode of Payment:**
- By bank transfer upon invoice or by credit card.

**VAT ID no.**

**Date, Signature**
Course 1: System Integration and Simulation of Hybrid Electric Vehicles

Learn HEV System Simulation Methods for SIL and HIL Development

Course Objectives:

- Understand the design and implementation of real-time simulation models for hybrid electric vehicles
- Learn the principles of system integration and simulation in the context of hybrid electric vehicles
- Gain experience in modeling and simulation of hybrid electric vehicles using commercial tools

Course 2: Hybrid Electric Vehicles: Control and Optimization

Hybrid Electric Vehicles: Theory and Applications

Course Objectives:

- Learn the fundamentals of control and optimization in hybrid electric vehicles
- Understand the principles of rule-based control and optimization for hybrid electric vehicles
- Explore the application of dynamic programming in hybrid electric vehicle control

Course 3: Energy Storage Systems for E-Mobility

Introduction to Energy Storage Systems for Electric Vehicles

Course Objectives:

- Learn the design and implementation of energy storage systems for electric vehicles
- Understand the principles of battery management and optimization in electric vehicles
- Explore the application of control strategies for energy storage systems in electric vehicles

Course 4: Vehicle Aerodynamics and Acoustics

Know how to Measure, Testing and Technique

Course Objectives:

- Understand the principles of aerodynamics and acoustics in vehicle design
- Learn how to perform aerodynamic and acoustic measurements in real-world conditions
- Explore the application of Computational Fluid Dynamics (CFD) and Experimental Techniques in vehicle testing