

Venue and Travel

AkademieHotel Karlsruhe
Am Rüppurrer Schloss 40, 76199 Karlsruhe
Tel. +49 721 98 98-0
<http://www.akademiehotel-karlsruhe.de/>

Karlsruhe is located in the southwest of Germany close to the French border.

Train: Karlsruhe has hourly ICE-services in the direction of Frankfurt/Cologne and Freiburg/Basel

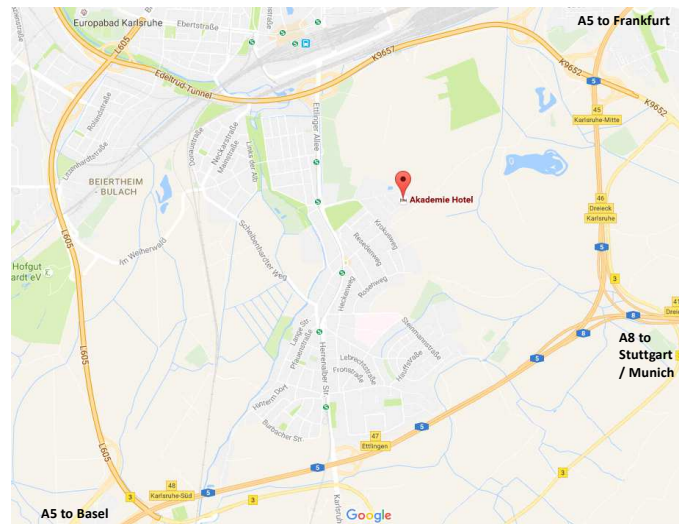
Airport: It takes about 60 minutes by train from Frankfurt- (direct ICE-connection), Stuttgart- or Strasbourg-Airport to Karlsruhe.

Car:

from Munich/Stuttgart via A8 direction Karlsruhe, change to A5 direction Basel at the motorway junction Karlsruhe and take the next exit no. 47 Karlsruhe Ettlingen

from Frankfurt (airport) via A5 direction Basel, pass the motorway junction Karlsruhe and take the next exit no. 47 Karlsruhe Ettlingen

from Basel via A5 direction Karlsruhe, leave the motorway at exit no. 47 Karlsruhe Ettlingen



Organization and Contact

Prof. Dr. Marc Kamlah
Karlsruhe Institute of Technology
Institute of Applied Materials –
Mechanics of Materials and Biomechanics

Dr. André Weber
Karlsruhe Institute of Technology
Institute of Applied Materials –
Electrical and Electronic Engineering

Prof. Dr. Arnulf Latz
German Aerospace Center
Helmholtz Institute Ulm (HIU) –
Institute of Engineering Thermodynamics
Computational Electrochemistry

Email: info@modval14.kit.edu

Web: <http://modval14.kit.edu>

Dates and deadlines

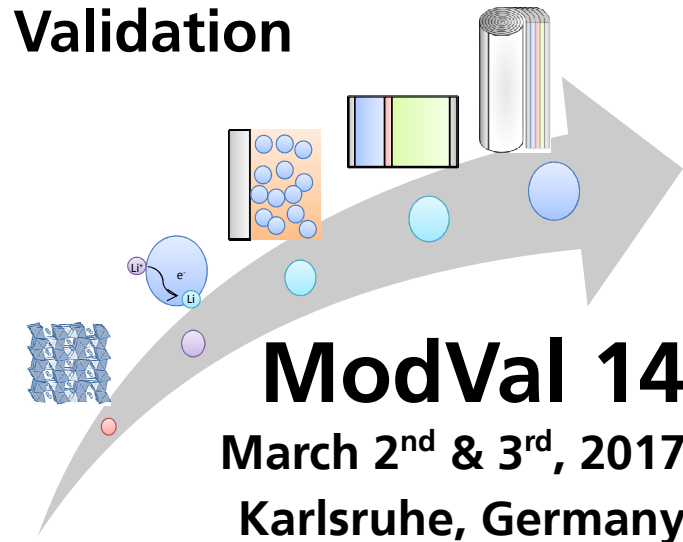
01.12.2016 Opening of abstract submission and registration

15.01.2017 Closing of abstract submission

01.02.2017 Announcement of final program

15.02.2017 Closing of registration

14th Symposium on Fuel Cell and Battery Modelling and Experimental Validation



Symposium and Scope

ModVal 14 is the 14th event in a series of annual international symposia on fuel cell and battery modelling and experimental validation. The aim of the symposium is to present and discuss recent advances in science and technology that are related to the modelling and simulation of fuel cells and batteries, as well as experimental techniques for model validation. The Symposium provides a forum for researchers in both academia and industry, promoting personal contacts and stimulating new collaborations.

Scope

Modelling and Simulation Methodology

- Quantum chemistry and elementary kinetics
- Electrode and cell level transport modelling
- Stack and system level modelling
- System dynamics and control approaches
- Model reduction and upscaling techniques
- Parallel computing and supercomputing

Validation Experiments

- *In operando* characterization methods
- Model experiments to determine parameters
- Imaging techniques and tomography

Application Areas

- Polymer electrolyte membrane fuel cells and electrolyzers (PEFC/PEEC)
- Solid oxide fuel cells and electrolyzers (SOFC/SOEC)
- Lithium-ion and post-lithium-ion batteries (LIB)
- System technology

Abstract Submission

One-page abstracts for talks and posters should be submitted by January 15, 2017 via email to info@modval14.kit.edu. An abstract template is provided on the conference website. Authors will be notified of the final program on February 1, 2017.

Talks: Invited plenary lectures and contributed talks will be given.

Posters: Posters will be displayed throughout the symposium and presented in a dedicated poster session. The maximum poster size is format A0: 119 cm × 84 cm (height × width).

Schedule: The scientific program runs from the morning of March 2nd until the afternoon of March 3rd.

Confirmed plenary speakers:

- Prof. Robert M. McMeeking, UCSB
- Dr. Oleg Borodin, US Army Research Lab
- Prof. Jon Pharoah, Queen's University
- Prof. Aimy Bazylak, University of Toronto



Registration

Symposium fee: Regular € 350, Students: € 250 (applies to students without regular work contract, proof of status required). The fee includes all coffee breaks, lunch on March 2nd and 3rd, as well as the conference dinner on March 2nd. Note that we cannot offer a discount for attendees not staying the full length of the workshop.

Payment: Please find the payment information on the conference web site. On-site payment is not possible.

Registration: Please register online at the conference website, <http://modval14.kit.edu>. Registration starts at 1st of December 2016, registration deadline is 15th of February 2017. Note that registration is only complete with conference fee paid.

Hotel: Rooms are blocked in AkademieHotel Karlsruhe, the venue of the meeting, which are available at a special rate under the code word "MODVAL" until January 13th, 2017. Please make your reservation directly with the hotel.

