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

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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

ModVal 14



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 electrolysers (PEFC/PEEC)
- Solid oxide fuel cells and electrolysers (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: $119 \text{ cm} \times 84 \text{ cm}$ (height \times width).

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

Confirmed plenary speakers:

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

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.

