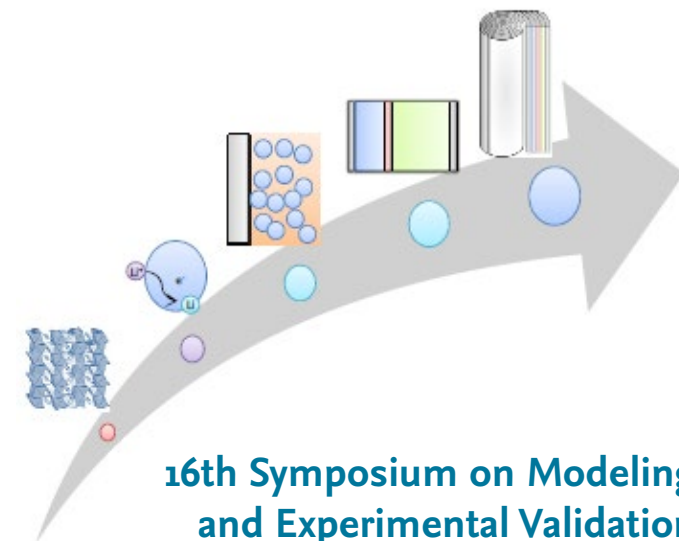




Technische
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Braunschweig

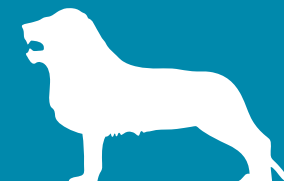


16th Symposium on Modeling and Experimental Validation of Electrochemical Energy Technologies

ModVal 2019

March 12th & 13th, 2019

Braunschweig,
Germany



Scientific Committee and Organization

Prof. Dr.-Ing. Ulrike Krewer
Institute of Energy and Process Systems Engineering
Technische Universität Braunschweig

Prof. Dr.-Ing. Arno Kwade
Institute of Particle Technology
Technische Universität Braunschweig

Prof. Dr.-Ing. Richard Hanke-Rauschenbach
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Dates and Deadlines

- | | | |
|-------------|----------------|---|
| 2018 | October 1 | Abstract submission and registration sites open |
| 2019 | January 7 | Abstract submission deadline |
| | End of January | Notification of acceptance, preliminary program |
| | March 1 | Online registration closes, final program |
| | March 12 | ModVal 2019 starts |

Venue and Travel

Vienna House Easy Braunschweig
Salzdahlumer Straße 137
38126 Braunschweig, Germany
Phone: +49 531 26310
www.viennahouse.com/en/easy-braunschweig/the-hotel

Arrival by public transport

Take the train to Braunschweig Hbf., then bus 411, direction Mascherode, exit Staatliche Untersuchungsämter or bus 431, direction Helmstedter Straße, exit Dresdenstraße. From the bus stops, it is only a short walk to the venue.

Map



Symposium and Scope

ModVal 2019 is the 16th event in a series of annual international symposia on modeling and experimental validation of electrochemical energy technologies.

The aim of the symposium is to present and discuss recent advances in science and technology that are related to the modeling and simulation of fuel cells, batteries and other electrochemical energy cells as well as to the respective experimental techniques for model validation. The symposium provides a forum for researchers in both academia and industry, promoting personal contacts and stimulating new collaborations.

Processes

- Molecular and surface processes
- Reactions and electrocatalysis
- Mass and heat transport
- System analysis
- Multi scale processes and interactions
- Material processing and production

Methodology

- Ab-initio modeling
- Continuum modeling, CFD, DEM, ...
- In-situ chemical, electrochemical and microstructure characterization
- Ex-situ model experiments to retrieve relevant parameters
- Imaging and spectroscopic techniques

Application Areas

- State-of-the-art battery technologies
- Next-generation battery technologies
- Fuel cells and electrolyzers
- Other cells, e.g. flow cells and bioelectrochemical cells

Abstract Submission

One-page abstracts for talks and posters should be submitted by **January 07, 2019** at **www.modval-2019.de**. An abstract template is provided on the symposium website. Authors will be notified of the final program by end of January 2019.

Talks:

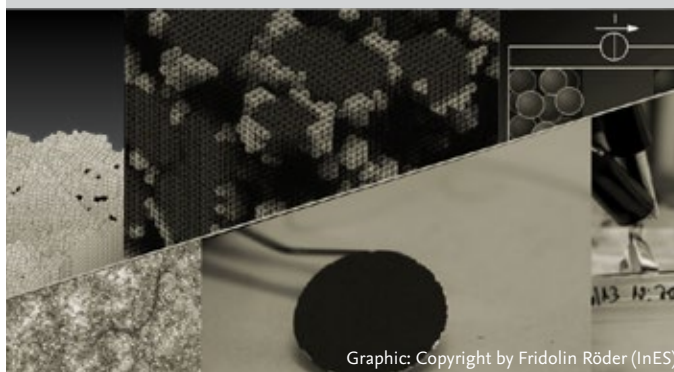
Invited keynote lectures and contributed talks will be given.

Posters:

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

Confirmed Keynote Speakers

- Prof. Martin Z. Bazant, Dept. of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA
- Prof. Alejandro A. Franco, Laboratoire de Réactivité de Chimie des Solides, Université de Picardie Jules Verne, France
- Prof. Robert Schlögl, Department Heterogeneous Reactions, MPI for Chemical Energy Conversion, Germany
- Prof. Dr. Vanessa C. Wood, Laboratory for Nanoelectronics, ETH Zurich, Switzerland



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Registration and Fees

Registration:

Online at www.modval-2019.de from 1st of October 2018 to 1st of March 2019

Symposium fee:

Regular: € 380, M.Sc./B.Sc. students: € 280

Registration fee waivers:

Six registration fee waivers for M.Sc. students are available. Please indicate your interest for a registration fee waiver when submitting your abstract. Afterwards send your CV (pdf) and a recommendation letter (pdf) to info@modval-2019.de. If you are awarded a registration fee waiver you will be notified after the abstract review has been completed.

Notes:

The fee includes all coffee breaks, lunch on March 12th and 13th, as well as the conference dinner on March 12th. Accommodation is not included.

Schedule:

The scientific program runs from morning of March 12th to the afternoon of March 13th.

Supported by

