



## 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](http://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

## Registration and Fees

### Registration:

Online at [www.modval-2019.de](http://www.modval-2019.de) from 1st of October 2018 to 1st of March 2019

### Symposium fee:

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

### Notes:

The fee includes all coffee breaks, lunch on March 12th and 13th, as well as the conference dinner on March 12th. The accommodation is not included. For special hotel prices see webpage.

### Schedule:

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

### Supported by

