

GERMAN BUNSEN SOCIETY FOR PHYSICAL CHEMISTRY- ANNUAL SCIENTIFIC CONGRESS

LOCAL AND SCIENTIFIC ORGANISERS

Philipp Adelhelm	Jena
Andrea Balducci	Jena
Thomas Bocklitz	Jena
Volker Deckert	Jena
Benjamin Dietzek	Jena (chair)
Stefanie Gräfe	Jena
Rainer Heintzmann	Jena
Ute Neugebauer	Jena
Jürgen Popp	Jena
Felix H. Schacher	Jena
Andrey Turchanin	Jena
Lothar Wondraczek	Jena

CONGRESS OFFICE



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yPC- FORUM

The yPC-forum (career forum) is an annual symposium organised by yPC (young Physical Chemists) working group of the DBG. It aims at scientists in earlier stages of their careers (between PhD and first appointment as a professor) and provides a forum for discussion and exchange on career related issues and questions. The annual symposium features three to five invited talks (in German) and an open discussion on a central career planning-related topic.

STUDENT TRAVEL GRANTS

The foundation of the Bunsen Society provides financial support for the participation of students at the conference (PhD students are not eligible). Universities are requested to submit a joint list of eligible students on behalf of their research groups no later than 15th of March 2019 to the Bunsen Society (geschaefsstelle@bunsen.de). The list should contain information on the students' status and their scientific qualification. Furthermore, the list should rank students according to the proposed priority to receive travel grants.

PUBLICATION OF A THEMED PCCP ISSUE

“Functional Materials”

PCCP will publish the official themed issue of the Bunsentagung entitled “Functional Materials”.

We invite you to submit a high quality manuscript of original, unpublished research on this topic.

**Deadline for manuscript submission:
18 January 2019**

All submissions will be subject to a rigorous peer review to meet the high standards of PCCP. When submitting your article, please indicate that it is intended for inclusion in the themed issue. Further details about PCCP can be found at www.rsc.org/pccp. Please contact the PCCP Editorial Office (pccp-rsc@rsc.org), if you have further questions.

We hope you will contribute to this exciting issue. High-quality submissions of original work in other areas of physical chemistry, chemical physics and biophysical chemistry are of course always welcome for publication in regular issues of PCCP.

ATTENTION!
Deadline for submission of abstracts
is 7 December 2018

EXHIBITION & SPONSORING

Companies are invited to participate at the accompanying exhibition. The exhibition presents a perfect opportunity to inform participants about your products and services as well as for networking. Furthermore various sponsoring opportunities are available to support the Bunsentagung and we are open to discuss individual sponsoring packages.

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MEETINGS OF THE GERMAN BUNSEN SOCIETY

WEDNESDAY, 29 MAY 2019

17:00 Board Meeting of the German Bunsen Society
(Vorstandssitzung)

THURSDAY, 30 MAY 2019

09:00 Meeting of the Standing Committee of the German Bunsen Society (Ständiger Ausschuss)

Participants of the above meetings will receive separate invitations.

15:00 General Assembly of the German Bunsen Society for Physical Chemistry (reserved for DBG members)

A larger exhibition space is possible on request. You can also support the conference via a direct donation to the German Bunsen Society. Please contact the Bunsen Society for additional information (geschaefsstelle@bunsen.de).



PROGRAMME OVERVIEW BUNSENTAGUNG 2019

THURSDAY, 30 MAY 2019

Opening Ceremony of the Bunsentagung,
Public Opening Lecture, Welcome Dinner and
yPC-forum

FRIDAY, 31 MAY 2019

Scientific Programme and Poster Sessions

SATURDAY, 1 JUNE 2019

Scientific Programme and Closing Ceremony

**FIRST ANNOUNCEMENT AND
CALL FOR PRESENTATIONS**

Functional Materials

www.bunsentagung.de



www.bunsentagung.de



EuChemS
European Chemical Society



FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA



Leibniz IPHT
LEIBNIZ INSTITUTE OF
PHOTONIC TECHNOLOGY



STIFT
Stiftung für Technologie,
Innovation und Forschung
Thüringen

BUNSENTAGUNG 2019
118th General Assembly
of the German Bunsen Society
for Physical Chemistry

Featuring an industrial symposium with accompanying exhibition
and yPC-forum

30 May – 1 June 2019 · Jena · Germany

The German Bunsen Society of Physical Chemistry (DBG) is honored
to invite on the occasion of the
**118th General Assembly of the German Bunsen Society
for Physical Chemistry**

from 30 May – 1 June 2019 at Friedrich-Schiller-Universität Jena

Main Topic: Functional Materials

**Public Opening Lecture: Using Molecular Heterojunctions for Chemistry: About Photosynthesis,
new Electrochemistry, and Artificial Ion Pumps**

Industrial Symposium: Functional Materials in Industry and Industrial Exhibition

On the occasion of the 125th anniversary of the Bunsen Society for Physical Chemistry a warm welcome at the Bunsentagung in Jena. The city of Jena is a medium-sized city of around 105,000 inhabitants with internationally recognized research institutes and a strong optical industry. Science in Jena is lively and interdisciplinary and looks back on a long history of interdisciplinary cooperation between Carl Zeiss, Ernst Abbe and Otto Schott - the founders of the City of Light.

The focus of the 118th Bunsentagung is on functional materials. Functional materials form the core of many modern technologies, e.g., energy conversion and storage, heterogeneous catalysis, drug delivery, implants, electronic and photonic devices. The challenges in the design and characterization of modern materials are diverse and require joint research efforts across various scientific disciplines. The most challenging tasks range from elucidation of the growth mechanisms of materials, the development of novel experimental characterization tools and theoretical methods for atomistic description of materials and material properties to tailoring the interaction of materials with their environment as well as device engineering. Due to this interdisciplinary approach, Physical Chemistry is a key scientific discipline for successful achievement of these tasks. With this background, the conference in Jena is intending to provide an insight into recent advances in such research areas like (I) materials for energy conversion and storage, (II) materials at the bio-interface, (III) 2D-materials, surfaces and interfaces for implementations in nanotechnology. We plan to put particular emphasis on tailored materials,

materials' characterization and modelling for implementations in photo- and electrocatalysis, solar and fuel cells, batteries and supercapacitors; materials for implants, drug delivery, tissue engineering and biosensors; on recent progress and challenges associated with the integration of novel materials into devices and the development of novel experimental characterization tools and theoretical methods for atomistic description of functional materials. A number of invited internationally recognized scientists representing highly interdisciplinary research fields across physics, chemistry, materials science and engineering will highlight these topics during the conference in Jena. Moreover, we expect a significant amount of contributed talks and posters dedicated to these vibrant scientific areas.

The 118th Bunsentagung takes place together with the biannual meeting of the Division of Physical Chemistry of EuChemS, which recognizes and celebrates the internationality of Physical Chemistry. The Bunsentagung 2019 will provide an excellent platform for fruitful research exchange with a focus on the application of physical and theoretical chemistry in interdisciplinary research and industrial innovations. Finally, the meeting will provide a platform for all generations of physical chemists from all throughout Europe to mix and share ideas and perspectives both on science and education and discuss avenues to tackle the scientific and societal challenges ahead of Physical Chemistry.

We are looking forward to welcoming you in Jena.
Benjamin Dietzek, Andrey Turchanin and Jürgen Popp
for the local organizing committee

LECTURES

OPENING LECTURE

Thursday 30 May 2019

Using Molecular Heterojunctions for Chemistry: About Photosynthesis, new Electrochemistry, and Artificial Ion Pumps
Markus Antonietti, Max Planck Institute of Colloids and Interfaces

PLENARY LECTURES

Friday 31 May 2019 – Saturday 1 June 2019

Engineered Living Materials

Aránzazu del Campo Bécares, Leibniz Institute for New Materials

Theoretical Spectroscopy of Hybrid Materials: An Exciting Loop between Challenges and Successes

Claudia Draxl, Humboldt Universität zu Berlin

Physical Chemistry and Applications of Mixed-Dimensional van der Waals Heterostructures

Mark C. Hersam, Northwestern University

Atom-by-Atom Functionalisation of Low-Dimensional Materials

Ute Kaiser, Ulm University

INVITED SPEAKERS

Friday 31 May 2019 – Saturday 1 June 2019

Curtis P. Berlinguette, University of British Columbia

Andreas Fery, Leibniz Institute of Polymer Research Dresden

Duncan Graham, University of Strathclyde

Marcus Sauer, Julius-Maximilians-Universität Würzburg

Luisa Torsi, Università degli studi di Bari Aldo Moro

PROGRAMME COMMITTEE

Philipp Adelhelm	Jena	Katharina Krischer	München
Ellen Backus	Mainz	Ralf Ludwig	Rostock
Klaus Boldt	Konstanz	Manfred Martin	Aachen
Bernhard Dick	Regensburg	Matthias Olzmann	Karlsruhe
Benjamin Dietzek	Jena	Joachim Paier	Berlin
Andreas Fery	Dresden	Jürgen Popp	Jena
Ingo Fischer	Würzburg	Felix H. Schacher	Jena
Frank Gießelmann	Stuttgart	Melanie Schnell	Hamburg
Leticia González	Wien	Andrey Turchanin	Jena
Stefanie Gräfe	Jena	Peter Vöhringer	Bonn
Jürgen Janek	Gießen	Karl-Michael Weitzel	Marburg
Wolfgang Kautek	Wien	Roland Winter	Dortmund
Olaf Conrad	Jena		

SUBMISSION OF ABSTRACTS

We invite you to submit your contributions either to the main topic or to any other topical areas. Submission of contributions covering fundamental or applied, experimental or theoretical work (and combinations) are equally appreciated.

Main Topics

- Materials for Energy Conversion and Storage
- Materials at the Bio-Interface
- 2D-Materials, Nanomaterials, Surfaces and Interfaces

Other Topics of Physical Chemistry

- Biophysical Chemistry and Biophotonics
- Catalysis
- Electrochemistry
- Reaction Kinetics and Dynamics
- Thermodynamics
- Theory and Data Science
- Transport and Storage
- Spectroscopy

Submissions for the main topic should be in English. Submissions to the other topics might be in English or German. The authors are expected to present their work in the language of the submitted abstract.

Abstract submission is accessible via
www.bunsentagung.de
from 1 November 2018 onwards.

Deadline for abstract submission: 7 December 2018
Abstracts submitted after this deadline will not be reviewed.

Authors are requested to submit an abstract (max. 1 page, 100-200 words) electronically as pdf file (.pdf) via the abstract submission tool at www.bunsentagung.de. A template is available at the website.

The abstracts of all accepted contributions will be published in a book of abstracts.

It is the sole responsibility of the author to submit the correct and complete information on co-authors and their institutional affiliations on the online form when submitting the abstract. This information will be published in the conference programme and the electronic book of abstracts.

The Programme Committee will review the submitted abstracts. Abstracts can be accepted for oral or poster presentation. Abstracts might be rejected if their content is not within the scope of the conference or of insufficient scientific quality. The Programme Committee might relocate contributions to other areas, if considered to be more relevant. Authors will be informed in February 2019 about the acceptance of their submissions.

Requirements for successful submission of abstracts:

- Abstract prepared in the proper format
- Name and contact details of presenting author
- Name and institutional details of all authors
- Title of contribution
- Preferred area and preferred format of presentation (oral or poster)

Please follow the guidelines below when writing your abstract:

- Title: Arial 14 pt, bold
- Author(s): Arial 12 pt (first name and surname), presenting author underlined
- Institution / Location: Arial 12 pt
- Main Text: Arial 12 pt, line separation: 1.5
- Literature: Arial 12 pt
- Page Format: A4, margins: 3.0 cm above/below and 2.5 cm left/right
- File Size: Max 300 kB
- No header or footer, no page numbers

The scientific programme will be available at www.bunsentagung.de in April 2019.

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