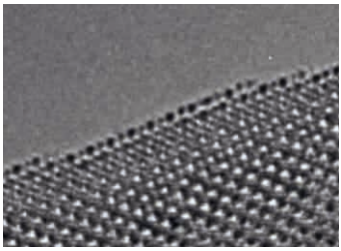
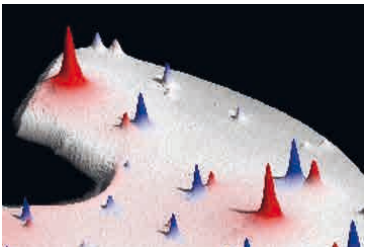
International Workshop on Correlated Dynamics in Energy Conversion IWCE 2023

September 11 - 14, 2023
Göttingen, Germany





Venue: „Alte Mensa“
Wilhelmsplatz 3
37073 Göttingen – Germany

Contact: info@iwce2023.org
Register under https://iwce2023.org
Registration: May 1, 2023 to July 31, 2023
Deadline for abstract submission: July 31, 2023

For more detailed information please visit our website:
https://iwce2023.org

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International Workshop on Correlated Dynamics in Energy Conversion - IWCE 2023

The fundamental mechanisms underlying energy conversion in materials and molecules are the generation, transport, and transformation of excitations. These processes are determined by the interaction of excitations in the electron, spin and nuclear degrees of freedom. Until now, our understanding of excitation dynamics in materials is based on single particle descriptions, but these break down entirely for systems with strong correlations between the different degrees of freedom. At the same time, strongly correlated processes offer exceptional and unexpected new properties, so that a deeper understanding of their dynamics is a very promising direction to optimize energy conversion steps.

The aim of this interdisciplinary workshop is to identify and present some of the most fascinating examples of strongly correlated energy conversion steps. The dialectical and interactive format of the workshop will allow for comprehensive discussions in the following topical areas:

- Proton-Coupled Electron Transfer
- Photoinduced Molecular Dynamics
- Electron/ Phonon Coupling
- Hot Carriers/ Hot Polarons
- Correlation in Driven States at Interphases
- Correlations in 2-D Materials
- Photoinduced Phase Transitions

Presentations from outstanding experimentalists and theorists in physics, chemistry, and materials science are planned and will include, invited and contributed oral and poster presentations.

We welcome your contribution to IWCE 2023 and promise you an exciting workshop, identifying and discussing new paradigms for energy conversion.

Looking forward to seeing you in Göttingen!

Christian Jooss, Sven Schneider

On behalf of the IWCE 2023 Scientific Committee:
Christian Jooss, Sven Schneider, Fabian Heidrich-Meisner, Stefan Mathias, Inke Siewert and Thomas Weitz

Foto: Klein und Neumann

Travel Information

Arriving by plane

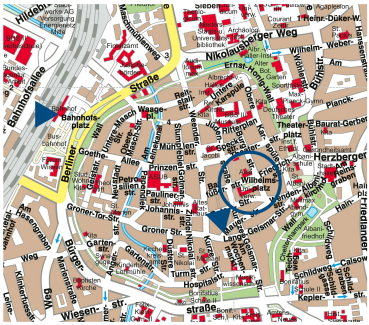
The nearest airport to Göttingen is Hannover. For international flights we recommend Frankfurt am Main Airport. There are regular train connections to Göttingen.

Arriving by train

Göttingen can conveniently be reached by train. The train station is located close to the city centre.

Arriving by car

Göttingen can be reached via motorway A7 from either the north or south.



Tagungs- und Veranstaltungshaus Alte Mensa, Wilhelmsplatz 3, 37073 Göttingen

Invited Speakers

IWCE 2023

Proton-Coupled Electron Transfer	**Chair: Inke Siewert**
Yogesh Surendranath	Department of Chemistry, MIT, USA
Andrea Pannwitz	Institute of Inorganic Chemistry I, University of Ulm, Germany
Carole Duboc	Department of Molecular Chemistry, University of Grenoble Alpes, France
Photoinduced Molecular Dynamics	**Chair: Sven Schneider**
Oliver Wenger	Department of Chemistry, University of Basel, Switzerland
Maria Wächtler	Department of Chemistry, RPTU Kaiserslautern, Germany
Leticia Gonzalez	Department of Theoretical Chemistry, University of Vienna, Austria
Electron/ Phonon Coupling	**Chair: Fabian Heidrich-Meisner**
Angel Rubio	Max-Planck-Institute for the Structure and Dynamics of Matter, Hamburg, Germany
Manuel Weber	Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany
Hot Carriers/ Hot Polarons	**Chair: Christian Jooss**
Maria A. Loi	Zernike Institute for Advanced Materials, University of Groningen, Netherlands
Artem A. Bakulin	Department of Chemistry, Imperial College London, UK
Correlation in Driven States at Interphases	**Chair: Christian Jooss**
Thomas W. Hansen	National Centre for Nano Fabrication and Characterization, DTU, Denmark
Eric Stach	Department of Materials Science and Engineering, University of Pennsylvania, USA
Jim Ciston	Lawrence Berkeley National Laboratory, USA
Correlations in 2-D Materials	**Chair: Thomas Weitz**
ChunNing Lau	Department of Physics, Ohio State University, USA
Klaus Ensslin	Department of Physics, ETH Zürich, Switzerland
Abhay N. Pasupathy	Department of Physics, Columbia University, USA
Jurgen Smet	Max-Planck-Institute for Solid State Research, Stuttgart, Germany
Photoinduced Phase Transition	**Chair: Stefan Mathias**
Daniele Fausti	Institute of Condensed Matter Physics, FAU Erlangen-Nürnberg, Gemany
Ulrich Höfer	Department of Physics, University of Marburg, Germany
Isabella Gierz	Institute for Experimental and Applied Physics, University of Regensburg, Germany