

MECS Cluster of Excellence *kick-off*



CLUSTER OF EXCELLENCE

COE 5 Materials For Energy Conversion & Storage

SCIENTIFIC PROJECT MANAGER:

André Vogel
andre.vogel@tuwien.ac.at

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Subject to change.



KICK-OFF MEETING

**CLUSTER OF EXCELLENCE
MATERIALS FOR ENERGY
CONVERSION & STORAGE**

Friday, 3. May 2024
Registration 8:30 - 9:00
Program 9:00 - 17:00
Karlsplatz 13,
Kuppelsaal der TU Wien, 1040 Wien

About the Cluster of Excellence MECS

The Cluster of Excellence 'Materials for Energy Conversion and Storage' (MECS) deals with problems of the global energy crisis. Our goal is to enable a society without fossil fuels; the technical hurdles that arise should be overcome with the help of basic research and an understanding of atomic processes. MECS aims to familiarize students, universities, policymakers and the public with the fact that science can provide solutions to seemingly insurmountable societal challenges. MECS focuses on two key technologies: storing renewable energy in chemical bonds and converting CO₂ and H₂O into basic chemicals and synthetic fuels. Catalysis is a central approach, the combination of heterogeneous and homogeneous electro- and photocatalysis, coupled with modeling and simulation, is our path towards the energy transition. Our vision is to create an Energy Materials Research Centre enabling the understanding and design of efficient energy conversion, leading the way towards a fossil fuel-free society.

9:00 OPENING (Christian Maszl-Kantner, TU Wien)

Martin Polaschek

Bundesminister, Federal Ministry of Education, Science and Research

Christof Gattringer

Austrian Science Fund (FWF), President

Jens Schneider

TU Wien, Rector

Manuela Baccharini

Universität Wien, Vice-Rector of Research and International Affairs

Martin Hetzer

ISTA, President

Veronika Sexl

Universität Innsbruck, Rector

10:15 OVERVIEW ON COE MECS

Günther Rupprechter

Director of Research, TU Wien/MECS

10:30 COFFEE BREAK

11:00 Keynote Pillar A

Introduction by **Julia Kunze** (Universität Innsbruck)

Ib Chorkendorff (Technical University of Denmark, Lyngby)

New insights in thermal and electrochemical ammonia synthesis

11:45 BUFFET AND NETWORKING

13:15 Keynote Pillar C

Introduction by **Georg Kresse** (Universität Wien)

Jan Rossmeisl (University of Copenhagen)

Catalysis on high-entropy alloys

14:00 Keynote Pillar B

Introduction by **Dominik Eder** (TU Wien)

Kevin Sivula (EPFL)

Semiconductor materials for direct solar-to-fuel energy conversion

14:45 POSTER SESSION WITH REFRESHMENTS

17:00 END

Join us in discovering the future of energy storage