To the media

Ulm, August 26, 2021

Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)

Location: Meitnerstr. 1,
70563 Stuttgart
Germany

International Ulm ElectroChemical Talks (UECT) on November 22 and 23, 2021

Batteries and fuel cells on the way to the mass market

The European Union targets to be climate-neutral by 2050; Germany is even aiming for 2045. Batteries and fuel cells are the pillars that are going to underpin tomorrow's carbon-free mobility. Researchers and manufacturers are striving to gear up these power packs to serve the mass market and cut costs. The 17th edition of the Ulm ElectroChemical Talks (UECT) on November 22 and 23, 2021, is going to highlight what it will take to achieve those goals. The Centre for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW) will host the international conference at the Congress Centrum Ulm. The event is also going to be accessible online. Some 300 experts from industry and science are expected to attend. For conference details and registration documents, visit https://uect.de.

Electro-mobility is booming. The numbers tell the story – registrations of battery-powered electric cars are rising fast around the world. These cars drive without emitting carbon dioxide when charged with electricity generated from renewable sources. In just a few years, additional zero-carbon solutions will be needed to power vehicles other than cars. That is why the industry is working intensively on hydrogen-powered fuel cells. Heavy-duty vehicles, busses and trains are the target for these emission-free drivetrains.

From the production process to recycling

This year's UECT deals with the transition of batteries and fuel cells from the lab to the factory floor. "It takes high production volumes to achieve low costs. And that is necessary to support the exit from fossil fuels and the effort to rapidly reduce our CO_2 emissions will succeed," says Prof. Markus Hölzle, a member of the ZSW's Board of Directors and head of the Ulm site. "Close collaboration between industry and science is imperative to answer so many open questions in due time. This conference offers an excellent platform for discussing technical issues as well as for personal interaction."

Around 25 experts from Germany and other European countries will present the state of the art in batteries, fuel cells and hydrogen at the Congress Centrum Ulm. Six sessions will be held over two days to discuss the necessary development needs for batteries and fuel cells during the years ahead. Talks will also focus on the future opportunities to come with industrialized manufacturing and the

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looming challenges of storing and distributing tomorrow's renewable energy. Other topics include large-scale hydrogen production and use, battery recycling, electricity storage and energy converters.

Poster presentations will provide participants, and especially young scientists, opportunities for academic discourse. The conference is going to be held in English language.

To be prepared for potential Covid-19 restrictions, the conference will also be streamed online to enable remote participation.

---------- Infokasten UECT ----------

17th Ulm ElectroChemical Talks (UECT)

Topic: Innovative batteries and fuel cells on the way to the mass market

Date: November 22 and 23, 2021

Place: Ulm, Congress Centrum Ulm (CCU). Online access is also an option.

Program and registration: https://uect.de

Target audience: Industry, research institutes and government representatives

Organizer: Centre for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW)

---------- Infokasten UECT ----------

About ZSW

The Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (Centre for Solar Energy and Hydrogen Research Baden-Württemberg, ZSW) is one of the leading institutes for applied research in the areas of photovoltaics, renewable fuels, battery technology, fuel cells and energy system analysis. There are currently around 280 scientists, engineers and technicians employed at ZSW's three locations in Stuttgart, Ulm and Widderstall. In addition, there are 100 research and student assistants.

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The UECT conference in Ulm will shed light on how batteries and fuel cells can enter the mass market at low cost to go mainstream. Image: ZSW

Images are also available from Solar Consulting or at https://energie.themendesk.net/zsw/.