



Swiss innovations for Battery
Applications and Technologies

A man with a beard, wearing a red t-shirt and a white hard hat, is looking intently at a robotic arm. The arm is white and blue, with blue cables attached. The background is a bright, industrial setting.

iBAT Association

Ensures the competitiveness of the Swiss Industry
in the field of Battery Applications & Technologies

THE ASSOCIATION

Our Mission

Batteries are the key enabler for emission-free mobility, renewable based energy systems, advanced robotics and mobile medical equipment. The iBAT association represents industry, authorities and research institutions along the complete value chain from manufacturing to recycling and strengthens Switzerland's competitiveness in this core technology.



"TFV - Networking Events Series« supporting iBAT core activities

Core Activities

Interdisciplinary exchange

Event Organization

Generate Ideas

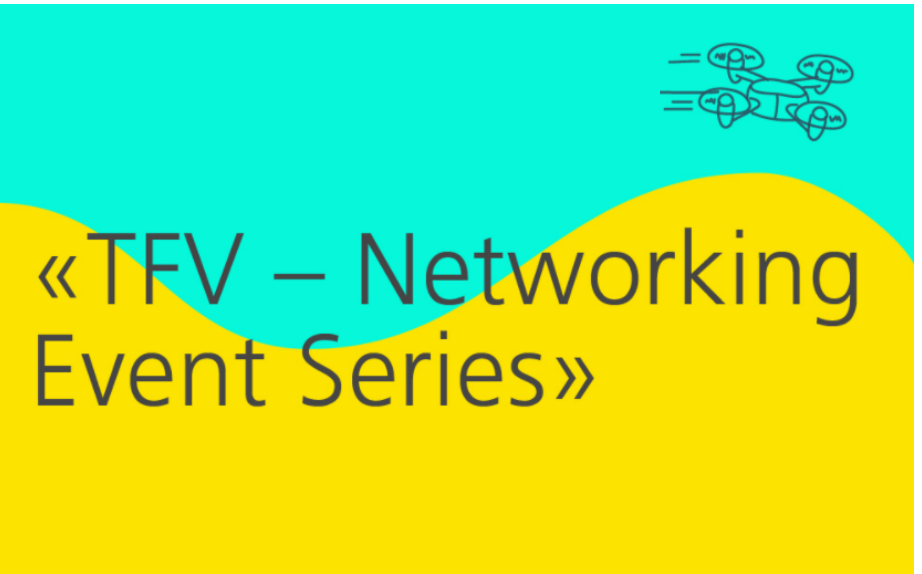
Networking

Link to European organizations

Information about research agendas

Funding opportunity information

Support Partners



iBAT.swiss promotes matchmaking and facilitates interdisciplinary exchange on battery topics between the key stakeholders from industry, authorities and science. The focus of the event series is on technical progress and practical applications of batteries with the objective to learn together and to boost radical innovations and products.

Research Partners

They shape IBAT: leading Swiss research partners that drive innovation. Research partners are full members of the IBAT Association.



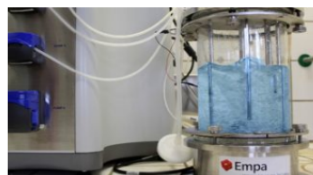
BFH – Battery and Storage Systems Lab

The BFH Energy Storage Research Centre provides a unique source of technical and commercial expertise. It serves as a subject-matter expert on storage applications in the energy and mobility sector and works with its partners to generate impetus for developments.



CSEM – Battery Systems

CSEM is a Swiss research and technology organization (RTO) with +35 years of technology development and transfer to industry. This activity has accelerated innovation, particularly in the strategic fields of digitalization, precision manufacturing, and sustainable energy.



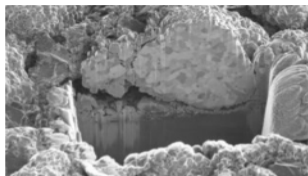
Empa – Laboratory Materials for Energy Conversion

Empa is an interdisciplinary research institute of the ETH Domain, conducting cutting-edge research on materials science and technology for the benefit of industry and the well-being of society. The laboratory Materials for Energy Conversion focuses on materials and device innovation for sustainable energy conversion and storage technologies.



UniNE – Institute of Management

The chair for innovation management at the University of Neuchâtel's Institute of Management has expertise in the collaboration between research and industry partners in the fields of strategy and innovation.



Empa – Reliability Center

The Reliability Center operates a knowledge and equipment pool to perform research, tests and inspections for industry, academic institutions and public authorities.



EPFL – Distributed Electrical Systems Laboratory

The research activities of the Distributed Electrical Systems Laboratory (DESL) refer to the development of smart grid concept solutions in order to efficiently deliver sustainable, economic and secure electricity supply.



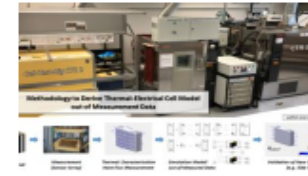
ETHZ – High Power Electronic Systems Lab

The research at the High Power Electronic Systems Lab (HPE) focusses generally on the design, modelling, and optimization of high power converter systems required for example in future energy distribution systems for integrating renewable energy sources or in electric mobility applications.



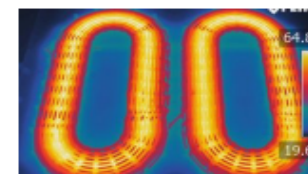
Ökozentrum

Ökozentrum develops functional models in the field of electromobility, stationary battery storage, accumulator systems and PV for customers from industry and research. We support you from the vision to small product series.



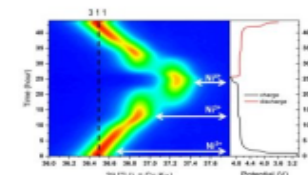
OST – Battery Research & E-Mobility

The Battery Research & E-Mobility Group of OST (Eastern Switzerland University of Applied Sciences - formerly NTB) is working in the field of electro mobility, battery research and charging technology since 2007.



OST – Power Electronics Laboratory

The Power Electronics Laboratory at the OST was established in 2008 and offers comprehensive expertise in the field of switched mode power conversion. One of the focuses is placed on battery charging for electro mobility and stationary applications.



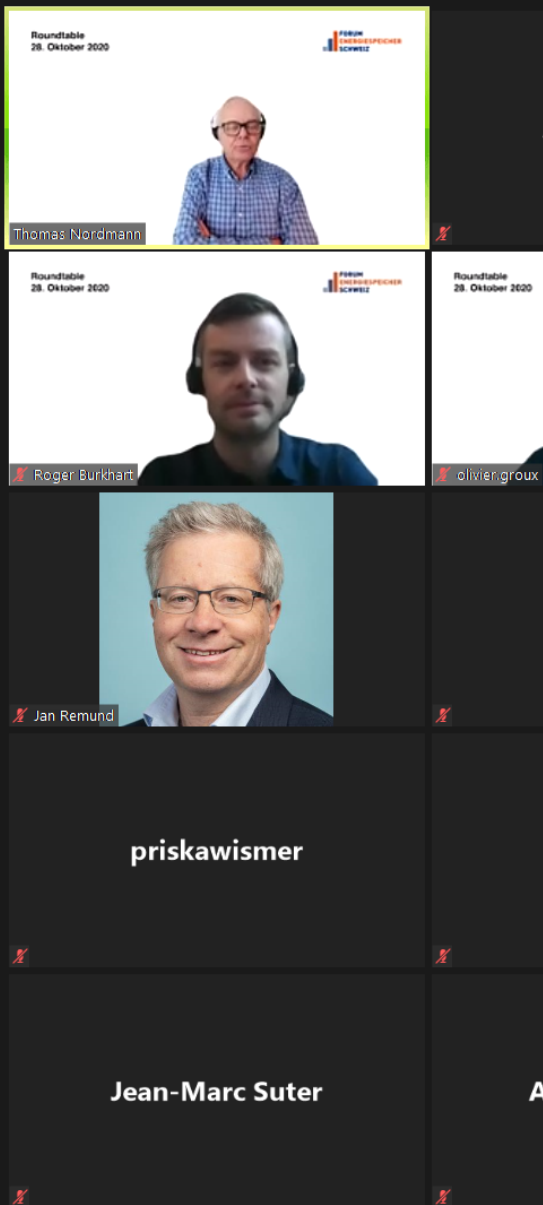
PSI – Electrochemistry Laboratory

The Electrochemistry Laboratory (ECL), established 1988, is part of the Energy and Environment Research Division at the Paul Scherrer Institute. PSI's Electrochemistry Laboratory is Switzerland's largest Center for Electrochemical Research.



SIPBB – Swiss Battery Technology Center

The Switzerland Innovation Park Biel/Bienne (SIPBB) supports start-ups in the development of marketable products. The Swiss Battery Technology Center brings a unique mix of experts from research and development.



Mini Online Conference.

On **10 November 2020** from **16:00 – 17:20** iBAT will be holding a Mini Online Conference.

For all interested parties (full members and associated members).

Program points

Presentation iBAT Association– Andrea Vezzini

Introduction of the iBAT association. Aims of the association and the network. Opportunities that open up for iBAT members thanks to the network. Goals and roadmap.

Presentation of current research projects and topics. – A. Hutter, Ch. Ochsenbein, M. Sattler, P. Caliandro

Research topics and actual scientific projects of the centers BFH, CSEM, Ökozentrum and Switzerland Innovation Park Biel/Bienne

Presentation of the industrial network "Kompetenznetzwerk Lithium-Ionen-Batterien" (KLiB) from Germany – Dr. Michael Krausa

KLiB is a German network for all aspects of lithium ion batteries. Introduction of the network and the planned online event, "German-Swiss Industrial Dialogue", which is organised jointly with iBAT.

Design Thinking Approach – Emmanuelle Reuter

iBAT will use methods such as Design Thinking to find radically new solutions for electrochemical storage systems and their applications. Introduction to these methods.

Programm 2021 – Andreas Hutter

Outlook on the program and the next action steps for 2020.

Status: Ch. Ochsenbein / 2020-10-09

Deniz Bozyigit (...)



Frank Christian Krysiak

Adrian Seiler Fi...

Beat Guggisberg

Martin Schmid

<https://ibat.swiss/ibat-online-event-2020/>

<https://ibat.swiss/become-a-member/>