

**Reduction of energy
consumption in
industrial processes,
relevant examples of
technical solutions and
recommendations**

24.09.20

Webinar

9.30h – 15.30h

Annual Conference 2020

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SCCER EIP

Goals

- Bring together stakeholders from research, industry and public authorities
- Present research results and their implementation in industry
- Show opportunities, and create ideas to profit from the SCCERs and start collaborations
- Discuss results and synergies between the SCCERs and external stakeholders

Swiss Competence Centres for Energy Research

The Swiss Competence Centres for Energy Research (SCCERs) are looking for solutions to the technical, social and political challenges arising due to the energy transition. They explore and develop solutions that are marketable, i.e. solutions that are scalable and socially acceptable, and that can be seamlessly implemented by industry.

The SCCER EIP addresses these challenges in a combined effort by leading Swiss and international partners from research, industry and the public sector.

SCCER Efficiency of Industrial Processes

The vision of the SCCER EIP is to develop the science and technology that allows Swiss industry to transition to a sustainable use of energy in its processes and to reduce greenhouse gas emissions while at the same time keeping the impacts on the economics to a minimal.



Programme

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- 9:30 **Welcome and introduction**
Prof. Dr. Philipp Rudolf von Rohr, Head SCCER EIP, ETHZ
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- 10:00 **Focus: CO2**
A tiny molecule driving climate and energy policy
Prof. Dr. Marco Mazzotti, ETHZ
A new approach to reduce CO2 emissions through clever processing
Johannes Tiefenthaler, ETHZ
-
- 11:00 **Focus: Process improvement**
A practical approach based on pinch analysis for implementation of heat recovery measures
Dr. Edward Lucas, HSLU
Contribution of energy efficiency improvement towards deep decarbonization of Swiss food and beverage industry
Navdeep Bhadbhade, UNIGE
Potential impact of industrial heat pumps and ORCs including resource sharing between industries
Dr. Ivan Kantor, EPFL
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- 12:00 Lunch break
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- 13:00 **Focus: Novel components**
Novel heat pump systems for process heat and steam generation
Prof. Dr. Stefan Bertsch, NTB
Application examples of industrial and high temperature heat pumps
Dr. Cordin Arpagaus, NTB
Solar Energy as a reliable source for process heat in industry
Dr. Mercedes Rittmann-Frank, HSR
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- 14:00 **Focus: Wastewater**
Water-energy nexus in urban water management
Bruno Hadengue, Eawag - Prof. Dr. Tove Larsen, Eawag – Dr. Luca Baldini, Empa – Prof. Dr. Thomas Wintgens, FHNW – Prof. Carsten Wemhöner, HSR - Prof. Dr. Eberhard Morgenroth, ETHZ
- 14:15 **Implementing heat recovery at the building scale**
Bruno Hadengue, Eawag – Dr. Luca Baldini, Empa - Prof. Dr. Eberhard Morgenroth, ETHZ
- 14:30 **Linking water treatment, reuse, and cooling at the building scale**
Prof. Dr. Thomas Wintgens, FHNW - Prof. Carsten Wemhöner, HSR
- 14:45 **Discussion**
- 15:00 End of this session
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- 15:00 **SCCER EIP**
From the SCCER EIP programme into a future of creative innovation and effective implementation
Prof. Dr. Philipp Rudolf von Rohr, Head SCCER EIP, ETHZ
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- 15:30 End of webinar

Registration

There are no conference fees for this event. However, a registration is required.

If you cannot participate digitally in the whole conference, you are very welcome to attend individual presentations. Please note that the duration of each presentation is 15 minutes with 5 minutes for discussions. Questions are most welcome.

→ Please register via the [online form](#) until 22 September 2020.

Webinar

All registered participants will receive the link to the webinar no later than 1 day before the beginning of the event. Of course, you can join the webinar at any time.

Contact

Dr. Gianfranco Guidati, Manager SCCER EIP
gianfranco.guidati@sccer-soe.ethz.ch, +41 44 632 31 60
www.sccer-eip.ch

Silvia Christoffel, Admin. Assistant SCCER EIP
silviac@ethz.ch, + 41 44 632 34 26

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