

Decarbonizing the Swiss Heating and Cooling System

27.9.19

ETH Zurich

10.00 – 17.15h

Joint Annual Conference 2019
SCCER EIP and SCCER FEEB&D



Annual Conference 2019

SCCER EIP and SCCER FEEB&D

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 and the SCCER FEEB&D address 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.

SCCER Future Energy Efficient Buildings & Districts

The vision of the SCCER FEEB&D is to develop solutions for the Swiss building stock that will lead to a reduction of the environmental footprint of the sector by a factor of three by 2035 thanks to efficient, intelligent and interlinked buildings



Programme

09:30 **Registration and Coffee**

10:00 **Welcome and Introduction**

Prof. Dr. Philipp Rudolf von Rohr, Head SCCER EIP, ETH Zurich

Prof. Dr. Ludger Fischer, Deputy Head SCCER FEEB&D, Hochschule Luzern

10:30 **Solar Heat Integration in the Dairy Industry**

Dr. Mercedes Rittmann-Frank, Institut für Solartechnik, Hochschule für Technik Rapperswil

Gerold Schatt, Emmi AG, Luzern

11:30 **Efficiency Increase by Systematic Heat Pumping Integration in Industrial Processes**

Prof. Dr. François Maréchal, Industrial Process and Energy Systems Engineering, EPFL

Industrial partner to be confirmed

12:30 **Lunch**

14:00 **Decentralized Grey Water Treatment and Evaporative Cooling**

Prof. Dr. Tove Larsen / Prof. Dr. Eberhard Morgenroth, Urban Water Management, Eawag

Prof. Dr. Jan Carmeliet, Chair of Building Physics, ETH Zurich

Prof. Dr. Carsten Wemhöner, Institut für Energietechnik, Hochschule für Technik Rapperswil

15:00 **Potential of District Heating Networks – Brig-Glis Case**

Dr. Jonathan Chambers, Chair for Energy Efficiency, University of Geneva

Simon Summermatter, Lauber IWISA AG

16:00 **Coffee Break**

16:30 **Optimization-based Design of Renewable Decentralized Energy Systems – Case Study**

Dr. Andrew Bollinger, Urban Energy Systems Laboratory, Empa

17:00 **Closing Remarks**

Prof. Dr. Philipp Rudolf von Rohr, Head SCCER EIP, ETH Zurich

Prof. Dr. Ludger Fischer, Deputy Head SCCER FEEB&D, Hochschule Luzern

17:15 **Aperitif**

Registration

Participation at the Annual Conference 2019 will be free of charge. However, registration is mandatory. The number of places is limited, registrations are considered in the order of their arrival.

→ Please register via the [online form](#)¹ until 13 September 2019.

Venue

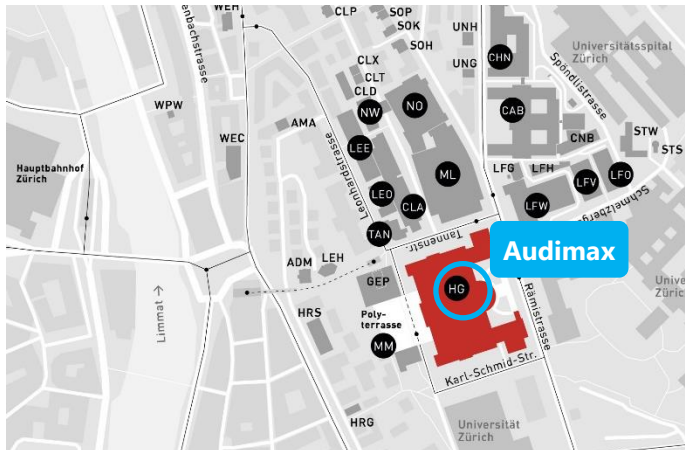
ETH Zurich (Zentrum campus)

Audimax (ETH main building, HG F 30)

Rämistrasse 101, 8092 Zurich



For detailed travel information, please visit <https://www.ethz.ch/en/campus/access/zentrum.html>.



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¹ <https://forms.gle/cKqWg8x5yit48Yxr8>