

# Newsletter

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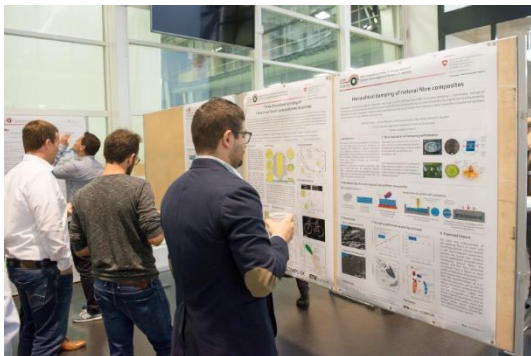
No. 13 / October 2019

Dear Reader

We are pleased to present the latest SCCER Mobility news to you. This issue communicates major advances and events of our research platform. Enjoy reading!

## News & Highlights

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### SCCER Mobility Annual Conference 2019

The SCCER Mobility Annual Conference convened for the sixth time on 6 September 2019 at ETH Zurich. This year we reached the highest participant number so far and welcomed over 150 expert guests from academia, public agencies and industry. If you were unable to attend or would like to revisit some of the presentations or posters, most are available for download. Moreover, you can watch the audio recordings of the talks. We hope to welcome you next year!

[Read more](#)



### Successful ETH Week – Rethinking Mobility

From 8-13 September, 200 students immersed themselves in the topic of “Rethinking Mobility” at ETH Week 2019. SCCER Mobility was involved substantially in developing the content of the course. Find out what the students experienced throughout the week with day-by-day impressions.

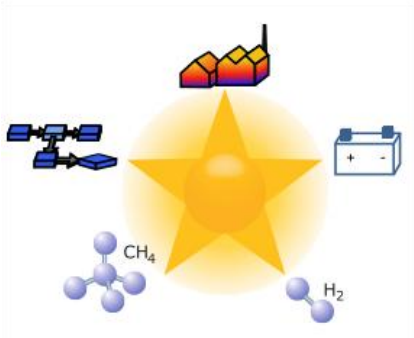
[Read more](#)



## Interview Tom Kober – World Energy Scenarios

Every three years, the World Energy Council explores possible developments of the global energy system under different scenarios. Tom Kober, head of the Energy Economics Group at PSI and one of the lead authors of the study, explains what the individual projections mean and how global warming could be mitigated.

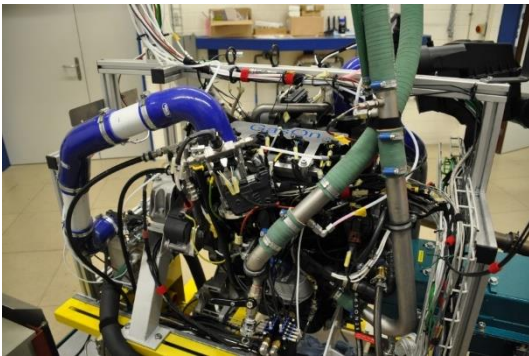
[Read more](#)



## Power-to-product – perspectives for Switzerland

The SCCER Joint Activity “Perspectives of Power-to-Product (P2X) Technology in Switzerland” was established with the goal of synthesizing state of the art knowledge on P2X technologies and assess the economic, environmental, regulatory challenges as well as its potential for the Swiss energy market. The resulting white paper was presented on 8 July 2019 at ETH Zurich.

[Read more](#)



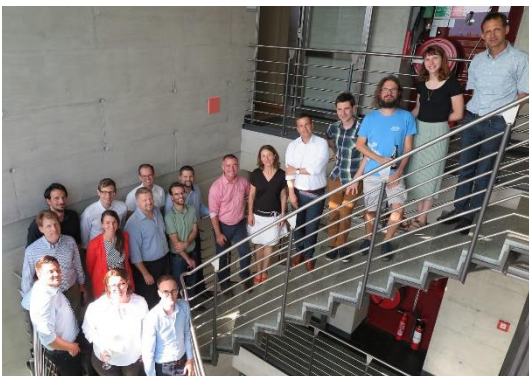
## Record efficiency for a gas engine

At the end of May, the final meeting of the Horizon 2020 project “GasOn” with the EU Commission took place in Brussels. The aim of this EU project was the further development of gas engines for cars and vans. Around 20 partners participated, including ETH Zurich and Empa as well as four European automobile manufacturers and well-known suppliers.

[Read more](#)

[More news highlights](#)

## MAS | CAS ETH “Future Transport Systems” News



## Dynamics and options for future mobility systems

On 4 July 2019, the sixteen students of the CAS “System Aspects” presented their final projects. The five projects were group efforts dealing with different developments that are likely to shape future mobility systems. This marks the successful finish of the first CAS of the second round of the MAS “Future Transport Systems”.

[Read more](#)



## Mental model of the mobility system

The CAS “Technology Potentials” started the second round on 3 September. On the introduction day the 14 enrolled students devised a mental model, a representation of their understanding, of the mobility system. In the coming semester they will learn about advancements in vehicle technology, energy carriers and infrastructure, applications of spatial information and communication technologies, integrated assessment of mobility technologies and systems as well as user-oriented innovations and applications.

[Read more](#)

## CAS “New Business Models” – registration open until 30 November

Do you have a promising business idea in the field of future mobility? In the CAS “New Business Models” you will learn about and acquire the tools to concretize, sharpen and put it into practice. It will take place in the spring semester 2020 at ETH Zurich. Registration is open until **30 November 2019**. Find out more on the [program website](#).

## Upcoming events

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### SCCER Mobility webinar series fall 2019

The SCCER Mobility Webinar Series goes into its third round this fall starting in October:

- 17 October 2019, 11.15-12.00: Amin Dehdarian, Postdoc at ETH Zurich
- 7 November 2019, 11.15-12.00: Christoph Schneeberger, PhD candidate at ETH Zurich
- 5 December 2019, 11.15-12.00: Andreas Ulbig, Adaptricity

Talks from previous semester are available for viewing on the [ETH Video Portal](#).

[More upcoming events](#)

## SCCERs

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### SCCER-FURIES Annual Conference 2019

SCCER FURIES is glad to invite you to its annual conference, which is open to the public. It will take place on **21 October 2019** at the Kultur & Kongresshaus in Aarau. Participants will have the opportunity to get insights on the research on smart grids in Switzerland, meet the experts behind innovative solutions and explore potentials for new collaborations. Attendance is free of charge, but registration is required [here](#).



### Dialogue social science meets practice: towards climate-neutral cities

SCCER CREST is co-organizing this event that takes place in German on **30 January 2020** in Basel. It will gather representatives from cities, cantons, energy supply companies and research. Thematic focus is put on heat conversion, energy consumption, making demand more flexible, electric mobility and transformation of life styles. More information is available [here](#).

# SCCER Mobility Glossary

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This section intends to widen the common ground between all SCCER Mobility partners. Contributions from our members are welcome. To make suggestions for this section, please contact the [Management Office](#).

The **World Energy Council**, established in 1923, is a global organization with member committees in more than 90 countries. Its members are mainly major energy producers and traders as well as governmental bodies, research institutes and energy consumer organizations. Its mission is to engage leaders in the energy sector to address the challenges of the global energy system. It is a platform promoting an affordable and inclusive energy transition by fostering smart and informed exchange between the different actors of the energy system.

Among other publications, it issues the **World Energy Scenarios** every three years. The newest edition discusses three plausible pathways to 2040 focusing on the impact of “disruptive innovation” on the energy system. It was launched on 9 September 2019 at the 24th World Energy Congress in Abu Dhabi in collaboration with Accenture Strategy and the Paul Scherrer Institute. The new report puts an emphasis on the innovation landscape within and beyond the energy system and touches not only on new energy technologies, but also on policy, business models and social factors. It includes projections to 2040 based on system maps, comparative analysis on energy implications, six regional perspectives, as well as illustrative quantification, on an aggregated global and regional basis.

**Key highlights and the energy system implications:** (1) Global primary energy demand momentum remains in line with the 2016 scenario modelling, with per capita energy demand projected to peak in the 2020s. (2) Electrification extends to more uses and users, driving decarbonization rates; however, the question of hard-to-abate sectors and non-electrified uses remains open. (3) A new mobility revolution, which is dependent on infrastructure, is gathering momentum with the potential to disrupt the entire energy landscape in the longer term. (4) Energy efficiency gains are critical to manage energy demand from industrial, residential and commercial sectors and to avoid reducing climate change momentum. (5) New opportunities are emerging to provide energy-plus services in an increasingly consumer-centric energy system. (6) Infrastructure innovation and investment, and proactive policies are necessary to secure affordable decarbonization and socially just energy transitions. (7) New net-zero carbon pathways, including hydrogen, and carbon abatement mechanisms emerge and start to scale by 2040. (8) Achieving Paris Agreement targets remains elusive, with none of the 2019 scenarios meeting the 2°C target agreed to in the UNFCCC Paris Agreement.

This text is based on a [press release](#) by the World Energy Council. Tom Kober, head of the Energy Economics Group in the Laboratory for Energy Systems Analysis at PSI and member of SCCER Mobility, was one of the lead authors of the World Energy Scenarios.

Find out more about the council and the report on the website of the [World Energy Council](#).

## Quiz

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What is the highest efficiency reached by a passenger car gas engine? The first 10 people to send the correct answer to [Pascal Sonder](#) will enter the final drawing and have a chance to win (e-mail subject: QUIZ).

Solution of the previous quiz: Together Martin Eichenhofer, Giovanni Cavolina and Chester Houwink founded gT Labs. The winner was Martin K uchler, Zugerland Verkehrsbetriebe AG and MAS participant. Congratulations!

This information is provided by the SCCER Mobility Management Office. Our newsletter is issued 4 times per year. If you have information that you would like to share, please contact [Kirsten Oswald](#).

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