

Invitation and Agenda

„Exploring Negative Emission Technologies in the Plastic Industry and Beyond“

Thursday, 6 June 2024 @EMPA Dübendorf

Joint conference of the Innovation Boosters



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As various industries are beginning their journey towards net zero, we invite you to gain insights into existing approaches to mitigating CO₂ emissions in different sectors and to explore novel and innovative ideas for achieving carbon removal beyond emissions reductions. We aim to bring together established industry players, scientists, and start-ups in order to exchange thoughts and discuss ideas for advancing the industry towards net zero together. In addition, you will have the chance to visit NEST – the modular research and innovation building of Empa and Eawag where new technologies, materials and systems are tested, researched, and further developed under real conditions. Finally, alumni and current participants of the Innovation Boosters “Zero Emissions Plastics” and “Carbon Removal” will share their experiences of participating in Innosuisse’s booster program and developing radical ideas.

In line with the Paris Agreement and in light of global climate change, the Federal Council decided that Switzerland should aim for net-zero greenhouse gas emissions by 2050. While reductions of greenhouse gas emissions will make up the major part in reaching this goal, 7 million tons of CO₂eq are likely to remain as hard-to-abate emissions and must be balanced with negative emissions technologies¹. Despite this clearly defined goal, many questions remain unanswered: How do we navigate the pathways toward achieving net-zero emissions? What technological advancements and regulatory frameworks are requisite to foster viable business models? How can we gain social acceptance for the necessary transformative measure?

Actors from science, industry, politics, and society must work together closely to achieve rapid emission reductions across various sectors. While the focus must clearly lie on reducing emission, concerted efforts are also needed to push forward the development of the yet nascent field of negative emissions technologies.

We look forward to welcoming a diverse crowd to discuss and challenge current ideas and projects of reducing emissions in the plastic industry as well as novel technologies looking to advance the development of carbon negative materials and processes.

¹ <https://www.bafu.admin.ch/bafu/en/home/topics/climate/info-specialists/emission-reduction/reduction-targets/2050-target/climate-strategy-2050.html>

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Agenda	
09:30	Welcome coffee
10:00	Welcome Speaker Carbon Removal and P4ZE
10:10	Keynote Switzerland's long-term Climate Strategy - The role of NET in achieving the 2050 goal Martin Jiskra, BAFU
10:40	Keynote Scientific Viewpoint on Negative Emission Technologies Roland Hischer, Empa
11:10	Coffee break
11:25	Best practices from the plastic industry GF Semadeni-Group
11:45	Permanent CO2 storage in the construction industry Luca Tschurtschenthaler, Neustark
12:05	How to tackle Scope 3 emissions in a global textile supply chain Nina Bachmann, Swiss Textiles
12:25	Lunch break
13:15	Site Visit NEST@EMPA (only for registered participants, limited capacity)
14:00	About the Innovation Booster funding programme Speaker Carbon Removal and P4ZE
14:10	Turning carbon emissions into running shoes Announcing CleanCloud™ – a new high-performance foam for running shoes, created using carbon emissions as a raw material. Nils Altrogge, ON AG
14:30	Carbonauten polymers – developing ready-to-use CO2 negative composites on the basis of technical biocarbons Torsten Becker, Carbonauten – the minus CO2 factory
14:50	Carbon negativity in construction and other structural applications Kolja Kuse, TechnoCarbonTechnologies Switzerland GmbH
15:10	Startup and idea pitch Supported by ImpactHub KohlenKraft, Open Climate Solutions, Sustain, V Carbon, Qaptis (a.o.)
16:30	Outro Innovation Boosters Speaker Carbon Removal and P4ZE
16:40	Networking apéro

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Registration Types and Rates

	Regular	Academic / Students
Innovation Day	190	90
Sponsoring	Available on request	

all prices are net prices, excl. tax

Please note that the available number of participants is strictly limited. Don't miss your spot and register soon.

A guided tour of NEST is offered but is only available for a very limited number of participants. Please book your participation separately when you register.

[Register here](#)

If you have any questions about the event and its content, please contact Theo Sandu, theo.sandu@composites-united.com