

Additive Manufacturing of Lightweight Composites



In cooperation with the ETH Competence Center for Materials and Processes (MaP) and Carbon Composites Schweiz.

Conference Goals

The Swiss SAMPE chapter, the ETH Competence Center for Materials and Processes (MaP) and Carbon Composites Schweiz are very pleased to invite you to the biannual Swiss SAMPE Technical Conference. The conference concentrates on the opportunities associated to additive manufacturing of lightweight composite parts.

Additive manufacturing of composite materials offers unique possibilities to combine the production technologies of high-performance materials with automation and design freedom for industrial production.

This one-day conference will provide a complete overview covering all relevant topics from fundamentals of materials, design and series production to start-ups and applications.

Location

The venue of the event, the Swiss Federal Institute of Technology (ETH) is located 10 min from Zürich Main Station.

- Campus: ETH Zürich Zentrum Campus
- Building: Will be announced shortly before the event
- Room: Will be announced shortly before the event
- Tram: Number 6 or 10
from Hauptbahnhof (Main Station) to "ETH/Universitätsspital"

Preliminary Programme

09:00 **Registration & Coffee**

09:30 **Opening address**

Mr. Hans-Jürg Gysin, President Swiss SAMPE Chapter
Prof. Dr. Paolo Ermanni & Dr. Kunal Masania, ETH Zürich

09:45 **Approaches & potentials for filament composite manufacturing**

Mr. Johannes Born, Composite Technology Center GmbH

10:30 **Materials in the AM of composite**

Prof. Dr. André Studart, Complex Materials, ETH Zürich

11:15 **Designing for AM of composites**

to be confirmed

12:00 **Lunch**

13:00 **Treating precision in AM**

Mr. Daniel Knoblach, Apodius GmbH

13:45 **Series production using AM**

to be confirmed

14:30 **Composite printing in architecture**

Prof. Dr. Benjamin Dillenburger, Digital Building Technologies, ETH Zürich

15:15 **Coffee break**

15:45 **Fibre patch placement AM of composites**

Dr. Neven Majić, Cevotec GmbH

16:05 **3D printing continuous carbon fibre composites**

Mr. Martin Eichenhofer, 9T Labs, ETH Zürich

16.25 **Tailored fibre placement – AM of CFRP preforms**

Mr. Benedikt Borchert, Bionic Composite Technologies AG

16:45 **Closure & apéro**

Registration

To participate to this event, please register until **9 January 2019** on the conference website:

<http://www.map.ethz.ch/news-events/sampe-conf.html>

Registration is free of charge for

- SAMPE Switzerland Members
- MaP Members
- Participants from CC Schweiz and CCeV Member Companies and Institutes
- Students (Bachelor, Master and PhD Students from Swiss Universities and Swiss Universities of Applied Sciences)

Non-members should sign up to SAMPE Switzerland before attending the conference at <https://www.sampe-europe.org/membership>

Further information

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