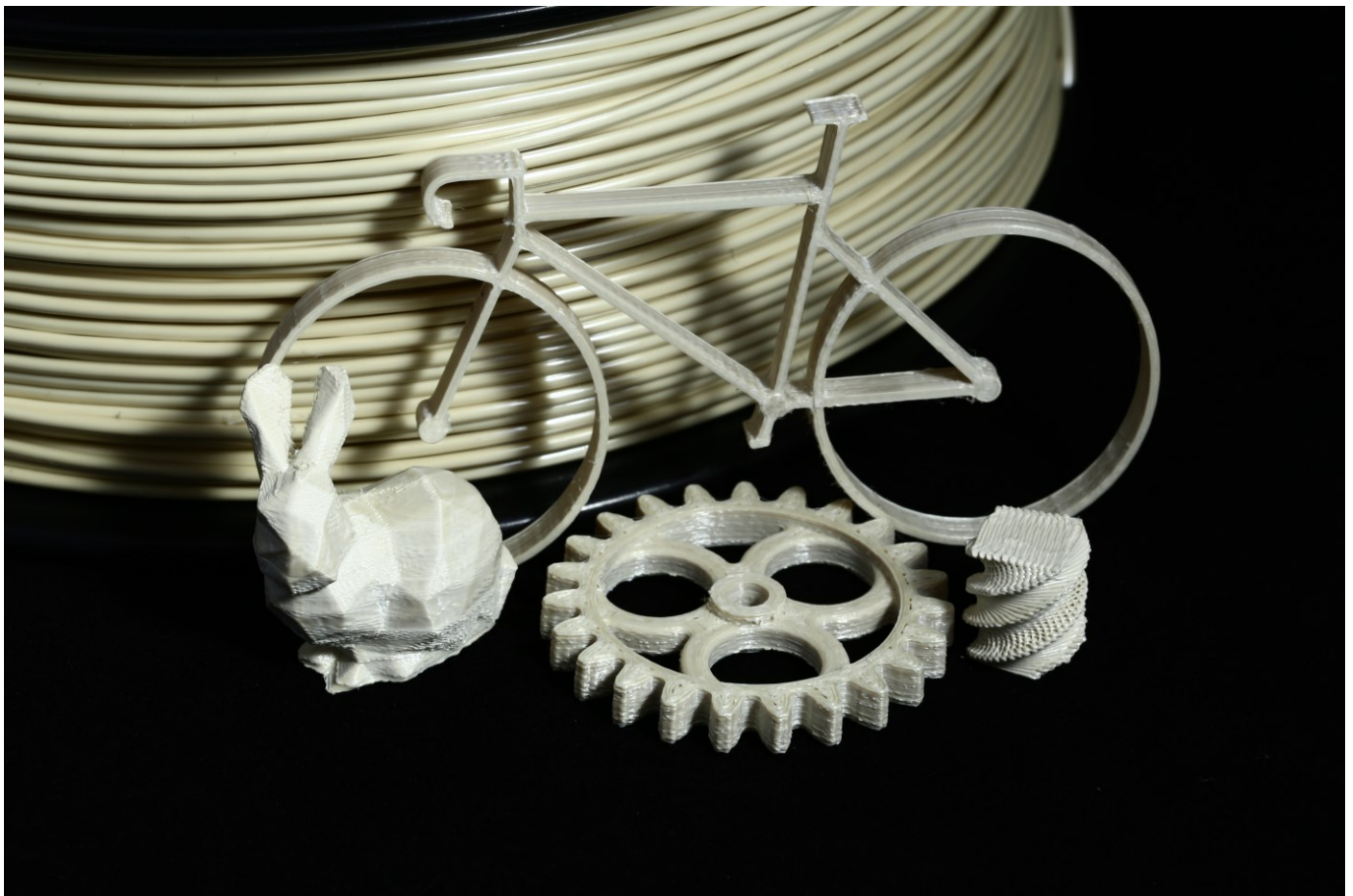


Additive Manufacturing of Lightweight Composites



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

Conference Goals

The Swiss SAMPE chapter, the ETH Zürich 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 event will take place at ETH Zürich, Zentrum Campus, CH-8092 Zurich. Details about the specific building and room will be communicated to registered participants after the registration deadline.

How to reach the venue:

- From the Zurich Main Station: tram no. 6 (Direction: Zoo) or tram no. 10 (Direction: Zürich Flughafen), Stop: ETH/Universitätsspital
- From Bellevue: tram no. 9 (Direction: Hirzenbach), Stop: ETH/Universitätsspital
- From Central: Polybahn

Programme

09:00 **Registration & coffee**

09:30 **Opening address**

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

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

Konstantin Schubert, Composite Technology Center GmbH

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

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

11:15 **Pushing the envelope of composite design: an optimisation perspective**

Dr. Ajit Panesar, Imperial College London

12:00 **Lunch**

13:00 **Treating precision in AM**

Daniel Knoblauch, Apodius GmbH

13:45 **Additive manufactured composites – Motivation, challenges and potentials**

Thomas Wettemann, Chair of Carbon Composites, Technical University of Munich

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**

Martin Eichenhofer, 9T Labs, ETH Zürich

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

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:

www.map.ethz.ch/news-events/sampe-conf

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 www.sampe-europe.org/membership

Further information

About SAMPE CH membership:

Secretariat c/o Heidi Mueller

Phone: +41 52 319 3143

administration@sampe-europe.org

About CC Schweiz membership:

Stève Mérillat, Carbon Composites Schweiz

Phone: +41 52 520 74 00

steve.merillat@carbon-composites.eu

About any organisational matters:

MaP Executive Office, ETH Zürich

Phone: +41 44 633 37 53

map@mat.ethz.ch