



Strategic Focus Area
Advanced Manufacturing

Annual Review Meeting 2022

08 February 2023, PSI in Villigen (Auditorium)

Advanced Manufacturing is one of the Strategic Focus Areas (SFA) in the strategic planning of the ETH Board. The SFA Advanced Manufacturing aims to enable fundamental research in engineering science in areas where missing knowledge or technical problems are hindering Swiss companies to use advanced manufacturing technologies.

Goal of the Meeting

At the Annual Review Meeting 2022, the [Steering Committee](#) of the Strategic Focus Area Advanced Manufacturing (SFA-AM) will review the progress and results of the [research projects](#) as well as the measures taken by the participating institutions of the ETH Domain to build up capacity and to establish new technology platforms in the field of advanced manufacturing.

In addition, the event aims to give the scientific and technical community in advanced manufacturing insight into the projects and activities funded by the SFA-AM. Interested representatives from academia and industry are invited to attend the meeting to get insights into the research activities of the SFA-AM and to foster the exchange and collaboration inside the advanced manufacturing community.

Registration

Participation in the [Annual Review Meeting 2022](#) will be free of charge. However, registration is mandatory. If you would like to attend, please complete the [online registration form](#) until **15 January 2023**.

Venue and Contact

The Annual Review Meeting 2022 will take place at PSI in Villigen (Auditorium). How to get to PSI is described [here](#). Your contact is:

- Dr. Lena Schinkel, Empa, lena.schinkel@empa.ch, +41 58 765 6152

An initiative of the ETH Board



Participating institutions of the ETH Domain



Program

The program of the [Annual Review Meeting 2022](#) is divided into three blocks. In the first two blocks, the leaders of the research projects that started in 2021 will present the results that have been achieved so far. After each of those blocks, current and former SFA-AM projects present their demonstrators and follow-up projects during an exhibition. In the third block, the representatives of the participating ETH institutions will present the planned or already realized measures to build up capacities and to establish new technology platforms in advanced manufacturing. After the official meeting, participants have the opportunity to attend a guided tour at PSI.

09:00	Registration - Welcome coffee & breakfast
10:00	Welcome, introduction and presentation of the program
10:15	Block 1: Research Projects that started in 2021 <ul style="list-style-type: none">▪ Microfluidics – Functional Integration for Rapid Realization of Microreactors and Bio-assays▪ SCALAR – Highly Scaled Gravure Printing▪ DiPrintProtect – Digitally Printed Temporary Protective Films for Application in the Watch Industry▪ AMYS – Advancing Manufacturability of Hybrid Organic-inorganic Semiconductors for Large Area Optoelectronics▪ SOL4BAT – Fabrication and diagnostics of stable solid-solid interfaces for next-generation Li-ion batteries
11:30	Project Exhibition and Speakers' Corners – Coffee break
12:15	Lunch
13:00	Block 2: Research Projects that started in 2021 <ul style="list-style-type: none">▪ ClosedLoop-LM – Ultrafast Laser Closed-loop Manufacturing using mid-IR Spectroscopy▪ SMARTAM – Fast Optimization of Additively Manufactured Metallic Parts with a Combination of Adaptive Feedforward Control and Numerical Simulation▪ Multi-Mat – Multi-material laser powder-bed fusion▪ MANUFHAPTICS – Manufacturing of Actuators Integrated in Active Exoskeletons
14:00	Project Exhibition and Speakers' Corners – Coffee break
14:45	Block 3: Capacity Build-up & Technology Platforms <ul style="list-style-type: none">▪ ETHZ▪ EPFL▪ PSI▪ Empa
15:45	End of the official meeting – Small apéro for further discussions
16:00	Optional guided PSI tours (duration ca. 1 hour)
16:00	Steering Committee meeting (room WHGA/U129 – downstairs in the Auditorium's building)