



INVITATION

Swiss-Swedish Innovation Initiative ADDITIVE MANUFACTURING & LIGHTWEIGHT TECHNOLOGIES

25 September 2018 | EMPA Academy Dübendorf, Switzerland

Additive Manufacturing (AM) & Lightweight Technologies are transforming industry from design and conceptualization, material requirements and advanced production methods to new lighter more economic user applications. In order to utilize the full potential of AM & lightweight technologies, international collaboration and market oriented research are required. Join R&D intensive MNE:s, innovative SME:s and best in class academia in generating new industrial partnerships and market oriented research projects with funding available from EUREKA/Eurostars as part of the SWII-platform.

ONLINE REGISTRATION OPEN: [Here](#)

FOR MORE INFORMATION & FULL PROGRAM: [Here](#)

OTHER INFORMATION:

- **15 selected Swiss & Swedish SMEs will gain the opportunity to pitch their R&D idea** to the industry audience.
- If you are interested in an elevator pitch, please contact Ms. Ulrika Hallström, Consultant Business Sweden E: Ulrika.hallstrom@business-sweden.se; M: +43 699 123 515 30 or Ms. Maja Zoric, Senior Project Manager, Business Sweden, E: maja.zoric@business-sweden.se M: +436642351523
- Swedish SMEs may apply for a [travel grant from Vinnova](#)

ORGANISERS:



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



T.I.C. SWEDISH TRADE & INVEST COUNCIL



SAAB



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PARTNERS:

Together
ahead.

RUAG

SIEMENS

Ingenuity for life

CHALMERS

CAM²

LIGHTer

a Swedish multi-sectorial lightweight arena



CARBON
COMPOSITES

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Swiss-Swedish
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September 25, 2018 | Dübendorf, Switzerland

Additive Manufacturing & Lightweight Technologies Networking Conference



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ADDITIVE MANUFACTURING & LIGHTWEIGHT TECHNOLOGIES NETWORKING CONFERENCE

WHAT:

- **SWII – Swiss-Swedish Innovation Initiative** is an industrial partnering platform with the overall objective to increase market oriented high-technology R&D&I bilateral projects with funding via **Eureka and Eurostars**, www.eurekanetwork.org
- Next SWII activity is the **Additive Manufacturing & Lightweight Technologies**, which matches the R&D heaviest Swiss & Swedish MNEs, SMEs & academia with the goal to launch joint market oriented R&D projects.
- **Subtopics within Additive Manufacturing & Lightweight Technologies that are of interest for joint innovation projects are:**
 - a) **Geometry and design optimization**
Structural orientation, surface texture, design methods for additive manufacturing & lightweight technologies (guidelines, standards, software support), design for x (sustainability, manufacturing, lightweight, robustness...)
 - b) **Digitization and business model development**
Value chain optimization, competence transfer, process productivity optimization (digitalization, process simulation, geometry simulation, path planning), spare parts and repair
 - c) **Manufacturing and post process development**
Tooling, tailored microstructures, hybrid processes, process/quality control/monitoring and verification, automation, post-manufacturing treatment, joining, set-up and process time minimization, support material reduction, safety
 - d) **Metal powder development for additive manufacturing & lightweight technologies**
Alloys for powder manufacturing, materials characterization and properties, standardization, amorphous metals
 - e) **Non-Metallic additive manufacturing & lightweight technologies**
Ceramics (glass, crystals...), polymers, bio-materials, composites, reinforcements

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WHY IS ADDITIVE MANUFACTURING & LIGHTWEIGHT TECHNOLOGIES OF INTEREST FOR YOU AS A...

- **Multinational Enterprise (MNE)?**
 - SWII enables you to identify and get matched with the most innovative “Additive Manufacturing & Lightweight Technologies” SMEs from Switzerland & Sweden
 - Share your experience and expectations with the public regulators in Sweden and Switzerland and hear about ongoing pilot tests in both countries
 - Learn more about the available project funding through Eureka /Eurostars
- **Small or Medium-Sized Enterprise (SME) or research institute?**
 - Gives you the opportunity to pitch your next market oriented research project to the R&D heavy industrial partners within “Additive Manufacturing & Lightweight Technologies”
 - Learn more about available Eureka & Eurostars funding for your R&D project
- **Since the start in October 2012, SWII has achieved following results:**
 - 33 R&D consortia and projects realized with a total project value of 38MEUR
 - 53 projects outlines with CH, and 61 project outlines with SE as main partner
 - Over 700 high profile participants from organizations such as Volvo Cars, Eaton Group, Sandvik, SBB, RUAG, Hexagon, ABB, Ericsson, Saab, Siemens etc.
 - Almost 1000 one-to-one meetings carried out onsite at the SWII conferences
 - For experiences & participants from previous events, see [photos & videos](#)

[DOES SWII SOUND INTERESTING? SIGN UP FOR SWII TODAY!](#)

PRELIMINARY PROGRAM

Moderator: TBC

08.00-08:30 REGISTRATION

08:30-09:00 OPENING OF CONFERENCE
EMPA (3min)

Ambassador Mauro Moruzzi, Head of International Relations Division, Swiss State Secretariat of Education, Research and Innovation (5min, TBC)

H.E. Magnus Hartog-Holm, Ambassador of Sweden to Switzerland & Lichtenstein (5min, TBC)

Swiss-Swedish Innovation Initiative

Ms. Maja Zoric, Senior Project Manager, Business Sweden (5min)

EUREKA – Doing Business by Technology

Dr. Friederike Rass, International Cooperation in Research and Innovation, Swiss State Secretariat of Education, Research and Innovation SERI (10min, TBC)

09:00-09:25 INTRODUCTION

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Introduction to collaboration opportunities with EMPA (15min)

09:25-10:40 MULTINATIONAL ENTERPRISE PRESENTATIONS

Introduction to collaboration opportunities with Saab (15 min)

*Dr. Göran Backlund, Director Business Development & Strategy, Saab Dynamics AB.
Responsible for AM activities within the Saab Group.*

Industrialization of AM Technologies Empowered by Collaboration at Siemens (SIT) (15min)

Dr. Vladimir Navrotsky, CTO, Siemens Industrial Turbomachinery AB

Synopsis: Siemens SIT is focusing on acceleration of AM technology industrialization at Energy sector and O&G Industry. Building extended and representative field experience, further commercialization of SLM and extension of other AM technologies for different applications are the cornerstones of Siemens AM Strategy. Collaboration with AM equipment suppliers, powder suppliers, end users of AM and Universities is a part of Siemens approach in AM development and industrialization.

Introduction to collaboration opportunities with BAE Hägglunds (15 min, TBC)

Introduction to collaboration opportunities with MNE 4 (15 min)

Introduction to collaboration opportunities with MNE 5 (15 min)

10:40-11:15 NETWORKING COFFEE BREAK

11:15-12:15 MULTINATIONAL ENTERPRISE PRESENTATIONS CONTINUE

AM – From Components to Product

Mr. Franck Mouriaux, Chief Engineer Spacecraft, RUAG Space, RUAG Schweiz AG

Synopsis: AM is used in the aerospace industry but its utilization is still very much limited to small components in the frame of experimental application and research initiatives. The impact in performance and development cycle time has been demonstrated but it remains marginal at system level. To get the full benefit, AM must now be used at higher system level for major components within the primary load path but implications are significant and challenges remain.

Introduction to collaboration opportunities with ABB Group (15 min)

Introduction to collaboration opportunities with MNE 8 (15 min)

Introduction to collaboration opportunities with MNE 9 (15 min)

Introduction to collaboration opportunities with MNE 10 (15 min)

12:15-13:30 NETWORKING LUNCH

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13:30-14:45 PITCHES BY 15 SMALL-AND MEDIUM SIZED COMPANIES

Each elevator pitch is 3minutes long.

14:45-15:15 ACADEMIA/RESEARCH INSTITUTE PRESENTATIONS

Introduction to collaboration opportunities with Chalmers (10 min)

Eduard Hryha, Professor, Department of Industrial and Materials Science, Chalmers University of Technology, Gothenburg (TBC)

*Introduction to collaboration opportunities with EPFL (10 min)
(TBC)*

*Introduction to collaboration opportunities with Linköping University (10 min,
TBC)*

15:15-18:15 ONE-TO-ONE MATCHMAKING MEETINGS

Each time slots is 20 Minutes, all meetings are booked [online](#).

18:30-20:30 AFTER CONFERENCE NETWORKING

Networking, Drinks and Finger Food

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