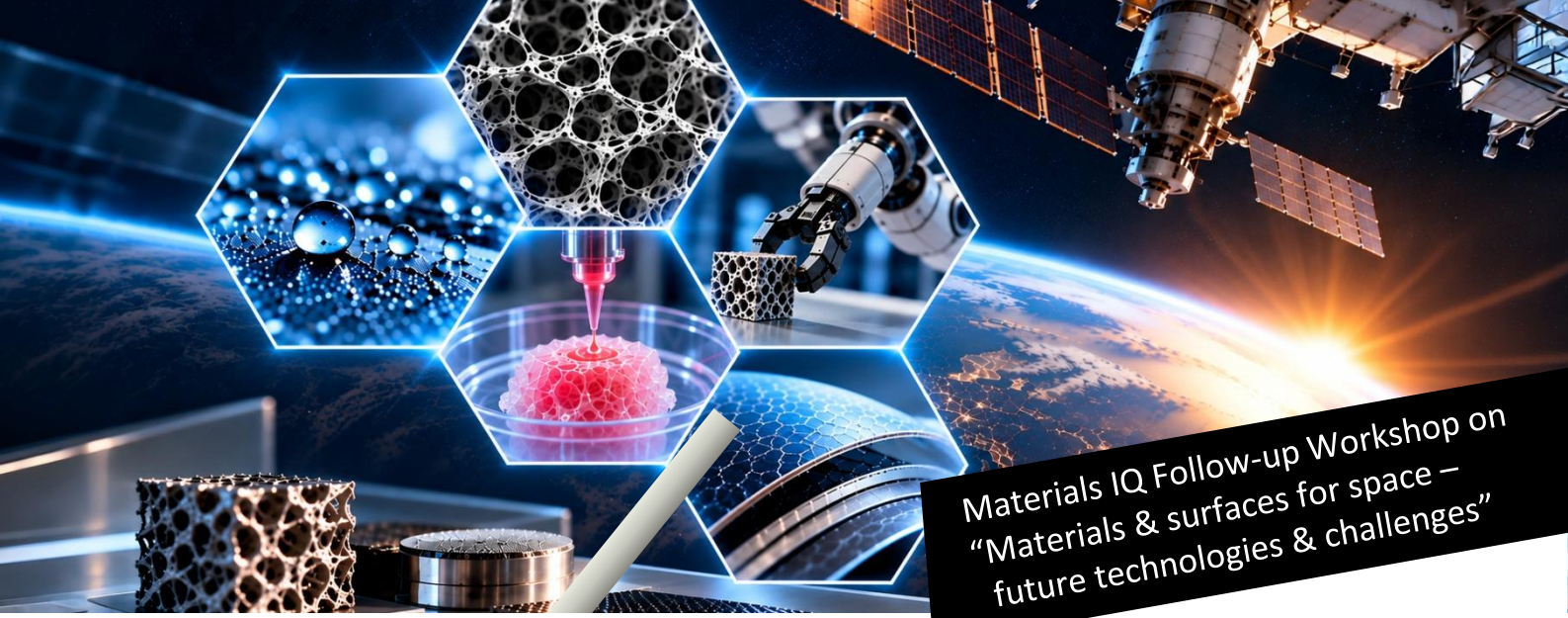


Materials IQ Follow-up Workshop on
"Materials & surfaces for space –
future technologies & challenges"

Thursday, November 26, 2026, 13.00h - 17.00h
Switzerland Innovation Park Innovaare, 5234 Villigen

SWITZERLAND INNOVATION PARK INNOVAARE

# Materials IQ – Workshop # 2
# Materials & surfaces for space – future technologies & challenges

The event is aimed at research institutions, industry & technology providers and policymakers, as well as platform operators with future-oriented material concepts and surface technologies for space applications.

Materials IQ®

innovative surfaces®

HIGHTECH ZENTRUM AARGAU

Empa
Materials Science and Technology

nano.swiss
Community Platform

In cooperation with:

esa Phi-Lab NET Switzerland

Supported by:

be advanced

Association NTN Innovative Surfaces©, 2013 -2026

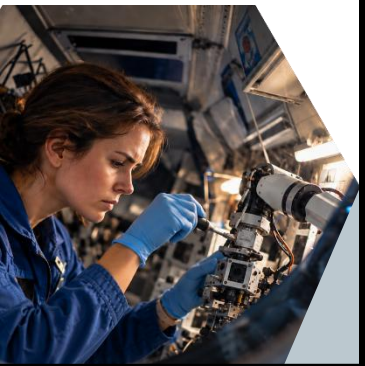
Thursday, 26 November 2026, Workshop: 13.00h - 17.00h
Switzerland Innovation Park Innovaare, Parkstrasse 1, 5234 Villigen
Registration until 20 Nov 2026: info@innovativesurfaces.ch / www.innovativesurfaces.ch

Materials IQ®

**Follow-up: Materials & surfaces for space future technologies & challenges**

Workshop fees (excl. VAT):
NTN Innovative Surfaces members CHF 50.-
Non-members CHF 120.-
Cancellation policy:
Administrative fee CHF 50.-
Substitutes are accepted

SCAN ME



The next era of space exploration will be shaped by technologies that bridge the gap between research and industrial application. The focus will be on transformative developments in space medicine, the transfer of terrestrial expertise to the most demanding space environments, and advanced solutions for cleanliness in future missions. Building on the momentum of our event in May, we will look beyond today's boundaries to explore emerging opportunities in industrial space exploration, next-generation metallic materials and manufacturing technologies, and self-healing composites. At the heart of the discussion is one key question: How can break-through innovation move from the laboratory into real-world space applications?

12.45 Welcome coffee

13.00 **Welcome & introduction**
Patrik Hoffmann, Empa / EPF Lausanne
Markus Schölmerich, ESA Phi-Lab, Paul Scherrer Institut PSI

13.10 **Challenges in Space Medicine Research**
Jaap Swanenburg, Institute of Aerospace Medicine, Uni Zurich

13:35 **Space needs what you know - how terrestrial expertise can become space-relevant**
Jennifer Ngo-Anh, ESA Directorate of Human & Robotic Exploration

14.00 **Human Space Operations and Biofilms**
Roland Stocker, ESA USOC BIOTESC, HSLU

14.25 **Analytical Spheres – Tracking Particles & Identifying Cleaning Limits**
Janine-Melanie Potreck, Cosa Group GmbH

14:50 **Coffee break**

15:20 **How the Space Revolution Changes our Industry**
Tobias Gerngross, Beyond Gravity Schweiz AG

15.45 **Engineering Metals for Space – From Alloy Design to Advanced Manufacturing**
Christian Leinenbach, Empa

16.10 **Healable Composites for Space Applications: Bridging Technology Readiness and Implementation**
Amaël Cohades, CompPair Technologies Ltd.

16.35 **From Windisch to Space with SMILE**
**Space activities at IPPE, FHNW**
Mirko Meier, Institute of Product & Production Engineering, FHNW

17.00 **Closing remarks & network-apéro**

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