

Annual Event 2025



Materials, Surfaces & Interfaces for a Circular Economy of Polymeric Materials

Polymers are versatile materials and are used in everything from high-tech electronics to consumer packaging. Mostly derived from petrochemicals, polymer recycling and their useful breakdown can be challenging. The sustainable use of polymers in circular processes is key and might compete with bio-based alternatives in a future circular economy.

Experts present advances & challenges in the circular use of polymers, the contribution of innovative surface technologies & energy-efficient processes for the transition from linear to circular value chains. Surface technologies can significantly improve the sustainability of polymer products, their material value, and their use over multiple life cycles.

Discuss the latest innovations in surface technologies with experts from the network.

Technology impulses on the state of the art
Showcases, best practices, networking and foyer-
exhibition
In cooperation with  Swiss Polymers Cluster

Tuesday, 21 October 2025, 10.30h - 16.45h, HTA-Fribourg, Boulevard de Pérolles 80, CH-1700 Fribourg

Morning program:

Roundtables with showcases

Afternoon program:

Materials, Surfaces & Interfaces for a Circular Economy of Polymeric Materials

Registration

info@innovativesurfaces.ch or www.innovativesurfaces.ch.

Fee for participation (all excl. VAT):

Members NTN Innovative Surfaces & Swiss Polymers Cluster CHF 50.-

Non-members CHF 100.-

Cancellation policy:

Administrative fee CHF 45.-, substitutes accepted.

Foyer Exhibition

Tables and power supply available. Fee CHF 360.00 (excl. VAT).

info@innovativesurfaces.ch

Association NTN Innovative Surfaces

Lagerstrasse 14

| Chemin des Verdiers 4

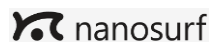
CH-8600 Dübendorf | CH-1700 Fribourg



10.30	Roundtables / Showcases
12.00	Lunch / Tabletop Foyer Exhibition
13.00	Plenum Talks
15.00	Coffee break / Tabletop Foyer Exhibition
15.30	Plenum Talks
16.45	Apéro / Tabletop Foyer Exhibition

Foyer Exhibition

Tables available: book now
info@innovativesurfaces.ch



Morning program – Roundtable Sessions

10.30h - 12.00h: 3 parallel sessions, each with 3 roundtables

- Empa** Cellulose-based coatings for fruits and vegetables
Dr. Gustav Nyström, Empa
- iPrint** Inkjet printing research: a mouthwatering journey with edible inks
Natalia Carrie, HEFR, iPrint Institute
- EVONIK** Revolutionizing Plastic Recycling: A Novel Co-Binder for Efficient Ink Removal
Silvia Paula, Evonik Operations GmbH
- SuSoS** Monolayer Coatings in Lifecycle Assessment: Negligible Direct Environmental Footprint, Significant Systemic Gains
Sina Göhl, SuSoS AG
- haute école arc** «Green» electropolishing of industrial alloys
Prof. Oksana Banakh, HE-Arc
- cross-ING** Complement or Competition: Thermal Spray, Weld Overlay & Laser Cladding
Mischa Weder, cross-ING AG
- ARGOR-ALJBA** Laser Texturing and DLC Optimization for Optimal Tribological Performance
Mirko Zago, ARGOR-ALJBA SA
- OST** Encapsulation and Protection of Sensors
Dr. Cornelia Nef, Ost - Ostschweizer Fachhochschule
- n|w** Between materials – sustainable interface modification using plasma treatment and plasma coatings
Prof. Sonja Neuhaus, University of Applied Sciences FHNW
- GMP** Laser Processing and Laser Assisted Sensing of Surfaces
Yashar Khodaei, GMP SA
- 12.00 Buffet lunch**



In cooperation with:
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Afternoon program - Plenary Session

13.00h - 16.45h Auditoire Edouard Gremaud

Materials, Surfaces & Interfaces for a Circular Economy of Polymeric Materials

13.00 **Welcome & Introduction** *Dr. Andreas Hafner, Dr. Jörg Güttinger*

Life-cycle Industrial Polymer Recycling (Chemcycling, Pyrolysis, Solvolyses) *Dr. Hannah Mangold, BASF SE*

Chemomechanisches Recycling of TPU: Chances & Problems
Dr. Lena Marie Funke, BASF SE

Towards Sustainable Surface Technologies for Circular economy *Prof. Yves Leterrier, EPFL*

Challenges & Opportunities in PET Closed-loop Recycling: a Surface Engineering approach
Dr. Jérôme Larrieu, Plastic Technologies Inc.

14.40 Coffee Break

15.10 **On's Cyclon program - towards circular footwear**
Christian Goldhahn, On AG

Circularity Is Not a Destination: Re-rethinking the Packaging Sustainability Narrative *Dr. Lars Lundquist, Nestlé SA*

Gluten, a pseudo-thermoplastic, bio sourced, compostable Material *Dr. Michel Schenker, Omya International AG*

Unlocking Lignin: A Versatile Ingredient for Functional and Innovative Materials and Surfaces
Dr. Philip Scholten, Bloom Biorenewables Ltd.

16.45 Networking Apéro

