

Annual Event 2024



Surface technology meets industrial reversible bonding

To facilitate the disassembly of components and multilayer systems, required for circular economy, controlled debonding is of high importance. Reversible bonding can be achieved by combining surface treatment technologies with functional additives interacting specifically with one or more trigger systems. However, there are several practical challenges in implementing these techniques, which we will discuss with leading experts.

Due to their advantageous properties, plastics are bonded in many material composites. With regard to recyclability, solutions for de-bonding are therefore also a key issue for the plastics industry when it comes to the reparability or recycling of intelligent systems or recycling of multilayer polymers.

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

Thursday, 24 October 2024, 10.30h - 16.45h, HTA-Fribourg, Boulevard de Pérolles 80, CH-1700 Fribourg

Morning program: Roundtables with showcases

Afternoon program: Surface technology meets industrial reversible bonding

Registration

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

Fee for participation:

Members NTN Innovative Surfaces CHF 60.-, non-members CHF 90.- (excl. VAT).

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

A day full of show cases & expertise










Foyer Exhibition

Tables available: book now
info@innovativesurfaces.ch



Morning program - Roundtables

10.30h - 12.00h Showcases & best practise

-  **Sol-gel processes for the elaboration of protective and responsive coatings**, *Xavier Bulliard, CSEM SA*
-  **Reliable plasma treatment for the production of sensitive medical electronics**, *Klaus Kresser, Plasmatreat Schweiz AG*
-  **AAA COAT-Beschichtung: Eine Alternative zu Eloxal!**
Roman Fuchs, FME GmbH
-  **Shape Memory Polymer for devices customizable at body temperature**
Ana Marques, Adolphe Merkle Institute, University of Fribourg
-  **Covalent adaptable networks for bonding-debonding & repair applications**, *Sabyasachi Gaan, Empa*
-  **Reactive inkjet printing of Ni nanoparticles for CO2 electrochemical conversion**
Mathieu Soutrenon, HES-SO Valais-Wallis, iPrint Institute, HEFR
-  **Oberflächenbearbeitung durch Gleitschleifen/Strahlen vor einer Beschichtung**, *Daniel Müller, Rösler Schweiz AG*
-  **AQIBond™ – Low Temperature Adhesion Promoter for High Precision Plastics**, *Sina Göhl, Susos AG*
-  **Environmentally friendly coatings for skies**
Giulia Morgese, ZHAW Zurich University of Applied Sciences

12.00 Buffet lunch



Afternoon program - Plenum talks

13.00h - 16.45h Auditoire Edouard Gremaud

Surface technology meets industrial reversible bonding

13.00 Welcome and introduction

*Andreas Hafner, Jörg Güttinger, NTN Innovative Surfaces
 Lorenz Herrmann, Empa*

Life-cycle assessment impact of reversible bonding

Marc Majo, Empa

Debonding primer for the circularity of multimaterials

Robin Szymanski, Aplus+ Rescoll

APM Unocol, temperature controllable adhesive / protective coatings

Mike Achtzehn, APM Technica AG

Surface treatment for debonding on demand

Katrin Hoffmann, OST – Ostschweizer Fachhochschule

15.00 Coffee Break

15.30 Waterbased Epotal adhesives - Recycling Loop for PET-Based Multilayer

Ines Pietsch, BASF SE

Debonding on demand for coatings

Oliver Strube, University of Innsbruck

Kalttrenn-Technologie zur Trennung von Klebeverbindungen

Jens W. Kipp, mycon GmbH

16.45 Networking Apéro

Marc Majo



Ines Pietsch



Mike Achtzehn



Robin Szymanski



Oliver Strube



Jens w. Kipp



Katrin Hoffmann

