

Annual Event 2023



Ultrathin Coatings and 2D-Materials

In recent decades, thin-film technology has made important contributions to highperformance manufacturing processes, electronics, photonics and life sciences, as well as to the transition from fossil to renewable energies.

Due to their unique properties, 2D-materials have been repeatedly cited as "materials of the future" for ultrathin coatings. However, their integration into mass production processes raises several challenges. Great industrial interest has been expressed for applications in sensor technology, printed electronics and optoelectronic components, to only name a few.

The annual event will bring exciting presentations on the latest developments in the world of ultrathin functional coatings and the integration of 2D-materials. The exchange between experts from industry and research will again be a central element.

Wednesday, 25 October 2023, 10.30h - 16.30h, HTA-Fribourg, Boulevard de Pérolles 80, CH-1700 Fribourg

Morning program: Roundtables with showcases

Afternoon program: Plenum talks «Ultrathin Coatings & 2D-Materials»

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 30.-, substitutes accepted.

Foyer Exhibition

Tables and power supply available. Fee CHF 390.00 (excl. VAT). info@innovativesurfaces.ch

Association NTN Innovative Surfaces
Lagerstrasse 14 I Chemin des Verdiers 4
CH-8600 Dübendorf I CH-1700 Fribourg





A day full of showcases & exchange of ideas



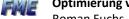




Morning program - Roundtables

10.30h - 12.00h Showcases & best practise

plasmatreat Atmospheric plasma enhanced chemical vapor deposition of anti-corrosive coatings, Klaus Kresser, Plasmatreat Schweiz AG



Optimierung von galvanischen Schichten mit AAACOAT/ Sol-Gel Roman Fuchs, FME GmbH



How Atomic Force Microscopy can help research, development and quality control on ultrathin coatings and 2D materials Marco Portalupi, Nanosurf AG



Polymeric 2D-aided 2D Materials Sina Göhl, Susos AG



OST Vom Federkiel zur Nanolithographie (2&2½D precision metrology) Dietmar Bertsch, OST – Ostschweizer Fachhochschule



EPFL Tribological considerations for ultra thin coatings and 2D materials: facing functionality and durability Anna Igual-Munoz, EPFLausanne

12.00 Buffet lunch

Afternoon program - Plenum talks

13.00h - 16.30h Auditoire Edouard Gremaud

13.00 Welcome and introduction

Andreas Hafner, Jörg Güttinger, NTN Innovative Surfaces

Low Dimensional Materials: Challenges and Opportunities Michel Calame, Empa, University of Basel

Fabrication of next generation electronics with nanomaterials Natanael Lanz, Chiral Nano AG

Solution processing of 2D material inks into thin conductive coatings, Jakob Heier, Empa

- 14.30 Coffee Break
- Random networks created by plasma, e-beam or UV: when chaos meets functionality, Sonja Neuhaus, FHNW

Nanocoatings by atmospheric atomic layer deposition for energy applications, Andrea Giraldo, BASF Schweiz AG

From Nanometer to Micrometer thin Films, or how to combine ALD and PVD to improve coating performance Carlos Guerra, Swiss Cluster AG

16.30 Apéro



Michel Calame











