



Association NTN Innovative Surfaces

Dr. Jörg Güttinger, Managing Director

Trends in Micro and Nano, 28 October 2019, St.Gallen



Supported by:



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The Association

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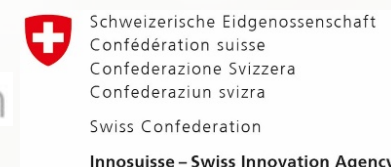
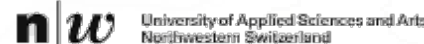
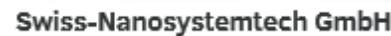
Board



Expert Committee



Members & Partners



Innovation platforms

Joint project initiation



**IPL
Surfaces of
Smart Systems**

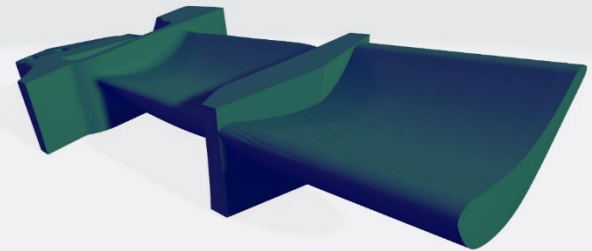
**IPL
Advanced
Coatings**

**IPL
Body near
Assistive
Systems**



Innovationsplattform 2D Surface Manufacturing

Industriekonforme Nachbearbeitung generativ
gefertigter Werkstücke, **30. Oktober 2019, Brugg AG**



PROGRAMM WORKSHOP-SERIE

Workshop 1: Stand der Technik, Verfahren & Herausforderungen

Mittwoch 22. Mai 2019, 13.30 – 16.30 Uhr, Hightech Zentrum Aargau AG

Workshop 2: Hands-on Praxisversuche, Analyse & Vergleichsverfahren

Mittwoch 3. Juli 2019, 13.30 – 16.30 Uhr.

Workshop 3: Optimierungspotenziale, Ansätze & Machbarkeit einschätzen

Mittwoch 28. August 2019, 13.30 – 16.30 Uhr

Workshop 4: New Technology Showcases

Mittwoch 30. Oktober 2019, 15.30 – 17.30 Uhr

TECHNOLOGIEPARTNER





Annual Event 2019 - RESPONSIVE SURFACES

December 5, 2019 – HEIA Fribourg

Scientific impulses - technology showcases

SESSION SPEAKERS: RESPONSIVE SURFACES



Raphaël Pugin



Fritz Bircher



Institute for Printing



Samuele Tosatti



SuSoS AG



André Bernard



Matriq AG



René Rossi



Empa

Functional and responsive Nanosurfaces - Raphaël Pugin, CSEM

Inkjet for smart materials - Fritz Bircher, iPrint, HEFR

Controlled adhesion via responsive functional polymers

Samuele Tosatti, SuSoS AG

DynamicMold: Microtechnology-based creation of individual watermarks on every single plastic device - André Bernard, Matriq AG

Stimuli-responsive fibers for smart textiles applications - René Rossi, Empa



ROUNDTABLE PRESENTATIONS

Saphirs fonctionnels	Anthony Schwab	ECONORM
Functional Surfaces	Yves Leterrier	EPFL
Traitements électrochimiques pour surfaces réactives	Stefano Mischler	EPFL
Funktionale polymere Beschichtungen	Ralf Altheimer	EPOSINT
Härtere AG – Innovationen in einem alten Industriezweig	Patrick Margraf	Gerster
Community-Plattform nano.swiss: Werkstoffe & Nano für die Industrie	Marcus Morstein	nano.swiss Community Platform
Analytical Services Reinvented	Ralf Dümpelmann	inolytix
Oberflächenveredelung in der Medizintechnik	Clément Cremmel	KKS
Leugos X-Link initiative: is there a future for biodegradable thermosets?	Christian Quellet	LEUGOS
Digitaler Eloxaldruck	Jon-Andri Mantel	mantel digital
Next-level nanotechnology tools empowering materials science research	Marco Portalupi	nanosurf
RMS Foundation: Ihr Partner für Oberflächenanalysen	Beat Gasser	RMS
Mechanische Oberflächenprüfung	David Ziltener	TRIBOTRON test & measurement



Biointerfaces *International* 2020 Conference, Zurich **August 25 - 27, 2020 University of Zurich** **Science, Technology & Translation**

Topics:

- 3D cell culture technologies (OOC, etc)
- 3D bioprinting
- Functional (bio)materials/interfaces
- Drug delivery systems, precision medicine
- Bioelectronics and Biosensors
- Surface and interface characterization

⇒ Submission deadlines:

- Contributed talks: 18 May 2020
- Poster contributions: 31 May 2020

Biointerfaces *International*

Organizers



One Day pre Conference Seminar

Translational sessions:

- Challenges to replace animal models (3R)
- Discussion on 3R
- Pitching sessions

<http://www.biointerfaces.ch>



**THANK YOU FOR
YOUR ATTENTION!
ANY QUESTIONS?
NO? GREAT!
BYE.**

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Join our group

Surface Engineering



*From
isolated,
silent
products*

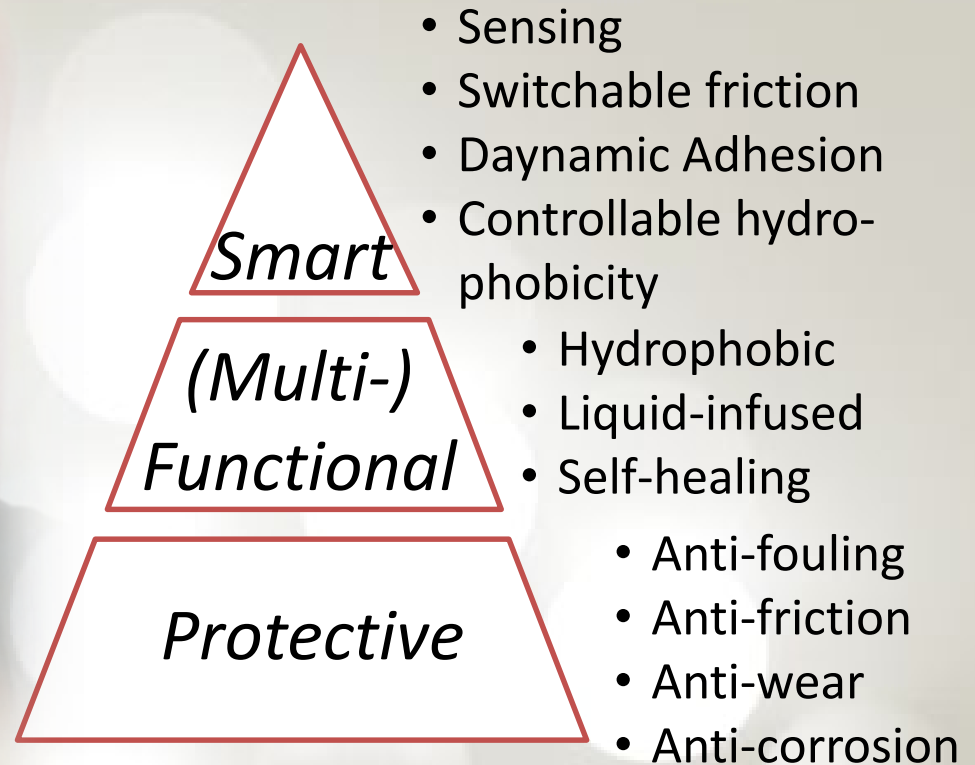
*to
networked
services*

*From
discrete
control
elements*

*to hybrid
surfaces
with virtual
assistants*

*Progress fuelled by trends: digitalisation,
nanotechnology, platform solutions, biomimetics*

Surface Engineering



*Focus moving from cost optimization
to value creation*