## **EXHIBITION 2019**

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Institute of Polymer Nanotechnology, FHNW University of Applied sicences & Arts NW Schweiz Plastics innovation Comptence Center (PICC) School of Engineering and Architecture Fribourg HASCO Suisse AG

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**PLASTICS** 

**INNOVATION** 

**Competence** Center



### **SAVE THE DATE - MAY 7<sup>TH</sup> 2020**

## PLASTICS TECHNOLOGY DAY

# PRACTICAL INFORMATION

#### REGISTRATION

https://www.swissplastics-cluster-event.ch/

Registration deadline March 14th 2019

Notice of withdrawal free of charge until March 7th 2019 via mail to info@swissplastics-cluster.ch After this deadline the full participation fee is due.

## RATES

Rate A : CHF 250.-Member Swiss Plastics Cluster

Rate B : CHF 400.-Non-Member Swiss Plastics Cluster

Rate C : CHF 55.-Student

Payment The invoice is sent 30 days prior to the conference.

#### ORGANISATION

Swiss Plastics Cluster Passage du Cardinal 11 CH-1700 Friboura

T +41 26 429 67 72 info@swissplastics-cluster.ch

INNOSQUARE

#### CONFERENCE VENUE

School of Engineering and Architecture Fribourg Boulevard de Pérolles 80 Auditorium Edouard Gremaud CH - 1700 Fribourg

### DIRECTIONS

Bus service From Fribourg railway station www.tpf.ch

Bus number 1 Marly-Gérine Bus STOP Plateau de Pérolles Bus number 3 Pérolles Bus number 7 Cliniques **Bus STOP Pérolles-Charmettes** 

Bv car Motorway A12, Exit Fribourg-south, direction Marly Adress GPS: Boulevard de Pérolles 80 1700 Fribourg

Car park - parking spaces available on 1st and 2nd floor



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Haute école d'ingénierie et d'architecture Fribourg Hochschule für Technik und Architektur Freiburg

swiss plasticscluster

# 4<sup>TH</sup> EDITION

# MICRO- AND NANOTECHNOLOGY IN SERVICE OF THE SWISS PLASTICS INDUSTRY

# **MARCH 21<sup>ST</sup> 2019**

https://www.swissplastics-cluster-event.ch/

4<sup>th</sup> EDITION MICRO- AND NANOTECHNOLOGY IN SERVICE OF THE SWISS PLASTICS PROCESSING INDUSTRY

In 2019, the potential of micro and nanotechnologies for the Plastics processing industry is definitely recognized but not fully commercially exploited. This fourth edition of the micro-nanotechnology conference is intended for stakeholders from plastics industry, academia and companies who provide service to the plastic processing market.

This year's conference covers three main aspects of this wide field, from nanotoxicology, nanostructuration to the applications in different technological fields.

The speakers will give insight into new findings and regulations concerning nanoparticles and their possible impact on the food chain. The demonstrated applications range from medical products and devices, tissue engineering, protection against moisture and corrosion to anticounterfeit products. In the last program session, the technology and the applications of surface micro- and nanotreatments will be presented.

The participants of this conference will have an overview of new upcoming technologies, regulations and concrete applications and will take advantage of the networking with renowned experts.

This event is organized by the Swiss Plastics Cluster in collaboration with the Plastics Innovation Competence Center (PICC).

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For the committee Aurélie Auffret Swiss Plastics Cluster Manager

PROGRAM **CONFERENCE** in English and French

Auditorium Edouard Gremaud (building A, ground floor)

### PROGRAM **CONFERENCE** in English and French

EN

| 09H00 | REGISTRATION - WELCOME COFFEE  | 14H00          |
|-------|--|----------------|
| 09H30 | WELCOME ADDRESS<br>François Aeby, Vice-president Swiss Plastics Cluster and<br>Director Advanced Technologies, Dentsply Sirona   |                |
| 09Н35 | SESSION 1: SAFETY AND HEALTH EFFECTS<br>Keynote : Reliability of Nanosafety Research - Toxicological Findings<br>and Regulatory Activities - EN<br>Harald Krug. NanoCASE GmbH (CH) | 14H35<br>15H00 |
| 10H15 | <b>Micro- and nanoplastic particles - impacts on human health via the<br/>food chain - EN</b><br>Barbara Rothen-Rutishauser, Adolphe Merkle Institut (CH)                          | 15H25<br>16H00 |
| 10H50 | COFFEE BREAK - VISIT OF THE EXHIBITION   | 101100         |
| 11H20 | Towards a comprehensive modelling framework for assessing toxicity<br>of nanoparticles - EN<br>Pietro Asinari, Department of Energy, Politecnico di Torino (IT)                    | 16H2O          |
| 11H45 | SESSION 2: STRUCTURATION<br>Advanced manufacturing of polymer surface topographies - EN<br>Per Magnus Kristiansen, Institut of Polymer Nanotechnology, FHNW<br>(CH)                | 16H45          |
| 12H10 | Surface texturing and coatings for higher productivity in plastics pro-<br>cessing - FR<br>Stefan Hengsberger, Plastics Innovation Competence Center (CH)                          |                |

12H35 LUNCH BREAK - VISIT OF THE EXHIBITION



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Auditorium Edouard Gremaud (building A, ground floor)

#### Femtosecond laser processing of glass micromolds with nanoscale resolution - EN Yves Bellouard, EPFL (CH)

#### **SESSION 3: APPLICATIONS**

Using 3D Bioprinting to Advance Tissue Engineering - EN Marcy Zenobi-Wong, Institut of Biomechanics, ETH Zurich (CH)

Nanoparticules for medical applications: challenges and trends Heinrich Hofmann, Emeritus Professor EPFL (CH)

#### **COFFEE BREAK - VISIT OF THE EXHIBITION**

Authentication of molded plastic parts using surface microstructure -

Fred Jordan, AlpVision SA (CH)

Protecting high value-added components against moisture penetration and corrosion - EN Yanik Tardy, Coat-X SA (CH)

#### **CONFERENCE END - APERITIF - VISIT OF THE EXHIBITION**

