



Factsheet Innovation Platform “2D Surface Manufacturing”

Objectives and procedures Innovation Platform 2D Surface Manufacturing

The Innovation platform 2D Surface Manufacturing (IPL 2DSM) of the NTN Innovative Surfaces is applied research-oriented. The workshop series in 2015 and 2016 convened participants from various industry sectors (intermediates and end-products) with experts from academia and industry (technology specialists). The IPL 2DSM participants work on technology and process related issues of emergent research results and their application potential for significantly improved printing processes and new business models.

The innovation platform provides its participants a truly multi-disciplinary forum (representatives of more than 30 companies and research institutions), and the workshop series cover important aspects to move research from the laboratory to the industry.

Content Innovation Platform 2D Surface Manufacturing

In **2015**, the focus of the Innovation platform was on emerging digital printing technologies and processes as a future oriented, flexible, inexpensive, on-demand and scalable fabrication method of functional surface structures.

In **2016**, the focus of the consecutive workshop series was on issues and approaches imposed on ink jet technologies for direct printing on 3D shaped objects. In the recent past, we saw a couple of attempts to create direct-to-object printers. When it comes to print on truly 3D shaped objects, they all suffer of a variety of basic problems, which we addressed in our 2016 workshop series. Printing on 3D shaped objects remains still a challenge.

In **2017**, the current workshop series continue with an unique opportunity for technology leaders: We introduce and discuss potential solutions and furthermore conduct joint tests on key machinery, based on a pilot surface topology.

The management of the Innovationplatform 2D Surface Manufacturing

Participation in the IPL 2DSM is possible by invitation of the NTN Innovative Surfaces. It is connected with a contribution to costs and includes 3 to 5 workshops per year.

Workshop results are confidential. The results of company-specific investigations are treated confidentially.

Candidates interested in contributing actively to the activities of IPL 2DSM can apply to Jörg Güttinger manager of the NTN Innovative Surfaces. (joerg.guettinger@innovativesurfaces.ch).

2017 activities of the Innovationplatform 2D Surface Manufacturing

1. Workshop: 10/05/2017 at the Institute iPrint in Marly / Fribourg
2. & 3. Workshop: 05/07/2017 at the Institute iPrint in Marly / Fribourg
4. & 5. Workshop: 17/10/2017 at the Institute iPrint in Marly / Fribourg