



Factsheet Innovation Platform “Praxiszirkel Hard-Coatings”

The Innovation Platform Praxiszirkel Hard-Coatings (IPL PZ HC) is a joint program of the NTN Innovative Surfaces and the Hightech Zentrum Aargau in Brugg/AG (www.htzaq.ch).

Objectives and procedures Innovation Platform “Praxiszirkel Hard-Coatings”

The IPL PZ HC is research and development oriented. Invited to participate are representatives of industrial companies (Multinationals, SME's, Start-Ups) with R&D-activities or production in Switzerland as well as members of Swiss Universities and public R&D-Institutes interested by innovative hard-coatings on various surfaces of products or processes.

The IPL PZ HC manages a multi-disciplinary exchange among the participants through workshops and interactive group processes (15-20 participants; 2/3 from industry). The proceedings are driven by (pre-competitive) technological questions of the industry. Answers to such questions will be developed among the participants within the IPL PZ HC through methods such as CTI-projects, R&D-consortia, TT-cooperation between industry and academia or supplier and customer relationships.

Content Innovation Platform “Praxiszirkel Hard-Coatings”

In Switzerland, several thousand companies are concerned with coatings. Innovative coatings provide new or additional properties to surfaces. Industrial applications of hard-coatings include the coating of metals (aluminum, steel...), ceramics or synthetic materials/ plastics. Properties achieved with hard-coatings could be corrosion protection, the improvement of the abrasion resistance of mechanically stressed parts (often in conjunction with tribology), the prevention of surface damage by UV radiation or high temperatures, etc.

Management Innovation Platform “Praxiszirkel Hard-Coatings”

A participation in the IPL PZ HC is possible free of charge by invitation of the NTN Innovative Surfaces or the Hightech Zentrum Aargau. The technology head is Prof. JM Rufer (ex Berner Fachhochschule, BFH) an acknowledged expert with an industrial background in coatings.

Candidates interested in contributing actively to the activities of IPL PZ HC can apply to Marco Romanelli. He manages the IPL PZ HC within the NTN Innovative Surfaces and the Hightech Zentrum Aargau (marco.romanelli@innovativesurfaces.ch Tel: 076 416 1225).

Past & Planned Activities Innovation Platform “Praxiszirkel Hard-Coatings”

- Kick-off:** 30.04.2015 at HTZ AG, Brugg, ‘Hard-Coatings: Perspectives and Trends’
- Workshop 1:** 23.06.2015 at HTZ AG, Brugg, ‘Hard-Coatings – von Konzepten zu Anwendungen’
- Workshop 2:** 25.08.2015 at HTZ AG, Brugg, ‘Lichtoptische Oberflächenanalysen’
- Workshop 3:** 03.11.2015 at HTZ AG, Brugg, ‘Hard-Coatings at ALPS: From Nitrogen to Diamond’
- Workshop 4:** 19.04.2016 at HTZ AG, Brugg, ‘Verschleissfeste und reibungsmindernde Schichten’
- Workshop 5:** 21.06.2016 at HTZ AG, Brugg, ‘Dünnschichtsysteme und Ionenimplantation’
- Workshop 6:** 31.08.2016 at HTZ AG, Brugg, ‘Wärmebehandlung und Kombinationsschichtsysteme’
- Workshop 7:** 08.11.2016 at HTZ AG, Brugg, ‘Sol-Gel Technology’
- Workshop 8:** 05.2017 at HTZ AG, Brugg, ‘Hard & Decorative Coatings’
- Workshop 9:** 20.06.2017 at HTZ AG, Brugg, t.b.d.
- Workshop 10:** 22.08.2017 at HTZ AG, Brugg, t.b.d.
- Workshop 11:** 07.08.2017 at HTZ AG, Brugg, t.b.d.