

## Mines St-Etienne

**Jenny Faucheu – Enseignant-chercheur**

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After graduating in 2002 from the European school of Chemistry, Polymers and Materials (ECPM, Strasbourg), Jenny Faucheu joined the National Institute of Standard and Technology (NIST, Gaithersburg MD) for two years and studied the ageing of polymer based composites. Back to France in 2005, she defended a PhD in materials science at the National Institute of Applied Science (INSA, Lyon) in 2008 on structure-properties relationships in nanocomposite elaborated *via* latex route. In 2009, she was appointed as assistant professor in the Ecole des Mines de Saint-Etienne (EMSE). Her research focus lies at the interface between materials science and user-centered product design, covering development of new materials for creative industries, materials perception and smart materials.

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### **Materials perception & materials experience**

Jean-François Bassereau, David Delafosse : Mines Saint-Etienne, Centre SMS

Barbara del Curto : Politecnico Milan

*The new era of product design focuses on perceived quality and user relationship. Sensations have become the starting point from which the relation between owner/user and product gets structure. In particular for the industrial sector these qualitative aspects belong to the external surface of products and consequently to the material which they are made of. Advanced functional materials - also called smart materials - provide designers with opportunities to create new products or transform existing ones, creating smart products and imagining new user experiences. The varying properties of smart materials make them fundamentally different from common materials.*