

# RAIN15 -- RAdiazione per l'INnovazione 2015

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## Interaction between cellulose materials and bleach products: an example of joint academic-industrial research program

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### **Content :**

The Institute for Complex Systems (ISC) and the Institute for the Study of Nanostructured Materials (ISMN) of CNR are engaged in a collaboration with the Fater SpA (Joint venture of P and Angelini) aimed to the development of new bleaching products for cellulose based materials.

Testing samples obtained by using different formulations in the FATER laboratory are studied and characterized at ISC and ISMN laboratories by using several non-destructive experimental methods.

Results allow the understanding of the action of bleaching at different levels (textile, fiber and polymer) and the effect of chemistry of fabric bleaching on mechanical and optical properties.

These results provide extremely valuable information for the development of competitive products for cleaning of cellulose-based materials.

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