



Presentation of the MARIE SKŁODOWSKA-CURIE ACTIONS Individual Fellowships project:

ComBIOsites

Reversibly photocrosslinked BIO-based composites with barrier properties from industrial by-products

19 September 2018

Department of Applied Science and Technology (DISAT)

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ComBIOsites aims at developing recyclable composite materials, using bio-based raw materials and environmentally friendly processes, such as photopolymerization. To this aim, microfibrillated cellulose (MFC), and a bio-based prepolymer, will be used. The prepolymer will be functionalized with a reversibly photocrosslinkable group, able to ensure the curing of the polymeric matrix upon irradiation at a given wavelength, and to allow its dismantling upon irradiation at a different wavelength.

This opening seminar will provide an overview of the scope of the project and of the research activities that will be carried out at Politecnico di Torino. It will also give the opportunity to discover the main research activities carried out by the research groups collaborating to the project.

- 9:30 | **Opening**
Stefano Corgnati, Vice Rector for Research
Paolo Fino, Director of DISAT
- 9:45 | **Marie-Sklodowska-Curie Actions: l'impatto atteso per la carriera dei ricercatori**
Sara Rollino, Ufficio Ricerca di Eccellenza e Mobilità dei Ricercatori
- 9:55 | **ComBIOsites: the project**
Roberta Bongiovanni, Project coordinator
Sara Dalle Vacche, Marie Curie Fellow
- 10:15 | **Research and testing facilities at the CNR-Biella Textile Labs**
Claudio Tonin, CNR-ISMAL, Italy
- Research at Grenoble INP – Pagora: biorefinery, nanocellulose and cellulose 3D printing**
Davide Beneventi, Grenoble INP – Pagora, France
- Functional polymer composites research at EPFL**
Yves Leterrier, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland
- Simulation of multiphase disperse systems at Politecnico di Torino**
Marco Vanni, Politecnico di Torino, Italy
- 11:15 | **Closing**