



H2020
Marie Skłodowska-Curie actions
European Training Networks



Seminar on Durability and Ageing of Organic Matrix Composites (OMC)

Marco Gigliotti

Physics and Mechanics of Materials Department, University of Poitiers, France

The Mul2 group is pleased to announce a 3-day seminar on the durability and ageing of composites. This course covers fundamentals of phenomenology, modeling and industrial applications. In particular, this course deals with the following three modules:

1. Phenomenology and experimental evidence of durability and ageing of OMC
2. Modelling of durability and ageing of OMC
3. Identification of models, applications, examples of industrial interest

Executive Summary of Professor Marco Gigliotti

Marco Gigliotti graduated in Aerospace Engineering at the University of Pisa, in 1999. He then obtained a Master of Science in Aerospace Composite Structures at the University of Bristol (UK), in 2001, under the supervision of Prof. Michael Wisnom and a Ph.D. at the Ecole des Mines (France), in 2004, under the supervision of Prof. Alain Vautrin, discussing a work on the hygro-thermomechanical behaviour of composite plates under transient and cyclical environmental conditions. He has been appointed as Associate Professor at the University of Poitiers and ISAE-ENSMA (France), in 2007. Since 2014, he is Full Professor at the same University.

He carries out research at the Physics and Mechanics of Materials Department, PPRIME Institute, where he coordinates the research group "Fatigue and Durability of Polymers and Polymer-based Composites". His research work concerns ageing, degradation and durability of organic matrix composites materials, and involves the employment of multi-physical multi-scale experimental/modeling coupled approaches: research is carried out collaboration with several Aeronautical/Aerospace Industrial (AIRBUS Group Innovation, AIRBUS SAS, SAFRAN Group, ...) and academic partners, within the framework of French (ANR, FUI, FNRAE, PRC ...) and International (EU) research programs.

He has co-authored around 100 publications concerning durability and ageing of organic composite materials.

Dates and Venue 20/21/22 April 2016, from 9:00 to 13:00, Sala Ferrari, DIMEAS (II Floor)

Acknowledgements and Contacts This short course is organized in the framework of the Marie Curie project FULLCOMP (www.fullcomp.net) and represents a network training event attended by students from other European institutions. For more info about this course and the FULLCOMP project, please contact Professor Erasmo Carrera and Dr. Marco Petrolo (erasmo.carrera@polito.it, marco.petrolo@polito.it, www.mul2.com).