

Spring School on Virtual Manufacturing and Testing of Composites

The MUL² group is pleased to invite you to a series of lectures in the framework of the Joint Project for the Internationalization of Research “Multiphysics models for virtual testing and process of advanced materials” with the University of British Columbia.

16 April 2019, 09:00 – 12:00, Sala Ferrari, DIMEAS

A Computational Design Framework for Composite Materials
Dr. Johannes Reiner, University of British Columbia

Layer-wise mixed least-squares models for the coupled thermo-mechanical analysis of multilayered plates: composite laminates and sandwich plates with embedded FGM layers
Dr. Filipa Moleiro, University of Lisbon

From 27 May to 31 May 2019, 09:00 – 12:00, Sala Ferrari, DIMEAS

Composite Materials: Processing, Characterization, Mechanics and Failure
Dr. Navid Zobeiry, University of British Columbia

Detailed program:

- Constituents (fibers and polymers),
- Evolution of properties during processing and characterization methods
- Processing methods
- Fabrication process of Boeing 777x and 787
- Process analysis and simulation
- Mechanics (overview)
- Failure analysis
- Safety factor, building block and substantiation of composite aircrafts

7 June 2019, 09:00 – 17:00, Castello del Valentino

1-day workshop on the main outcomes of the project, future perspectives and contributions from external guests. Confirmed speakers: Professors Anoush Poursartip and Reza Vaziri, University of British Columbia. The complete list of speakers to be announced in the following weeks.

Contacts

For registrations and more info: marco.petrolo@polito.it