POLITECNICO DI TORINO

H2020
Marie Skłodowska-Curie actions
European Training Networks

# Workshop on Advances in the Analysis and Design of Composite Structures
# A FULLCOMP Training and Networking Event

www.fullcomp.net

The MUL$^2$ group is pleased to announce a 1-day workshop in the framework of the Marie Curie Project FULLCOMP
**Dates and Venue** 2 May 2017, from 8:30 to 18:00, Salone d'Onore, Castello del Valentino, Torino, Italy

## Speakers and Topics

*Application of the boundary element method to delaminated composite structures and SHM system for composite flange-skin delamination detection*
Andrea Alaimo
Associate Professor, Department of Aerospace Engineering
Università degli Studi di Enna Kore, Italy
andrea.alaimo@unikore.it

*A new multi-scale optimisation strategy for designing variable angle tow composites by integrating manufacturing constraints*
Marco Montemurro
Associate Professor, Laboratoire I2M
Ecole Nationale Supérieure d'Arts et Métiers, Talence, France
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*TBD*
Steffen Czichon
Technical Unit Director, Structure Development
ELAN-AUSY, Germany
Steffen.Czichon@elan-ausy.com

*Improving the explosive blast damage resistance of composites*
Adrian Mouritz
Executive Dean of School of Engineering
RMIT, Melbourne, Australia
adrian.mouritz@rmit.edu.au

*Predicting impact damage, residual strength, and crashworthiness using computational analysis: progress and challenges*
Brian Falzon
Head of School of Mechanical and Aerospace Engineering
Queen's University Belfast, UK
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*Meshless and closed-form solutions of metallic and composite structures accounting for refined kinematics*
Alfonso Pagani
Assistant Professor, MUL$^2$ Group, Department of Mechanical and Aerospace Engineering
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*A comprehensive analysis of porous functionally graded thermal beam structures: stability, free vibration and dynamic response*
Fiorenzo Fazzolari
Research Associate, Department of Engineering
University of Cambridge, UK
ff305@eng.cam.ac.uk

*Modelling of fracture in composite structures: application to photovoltaic modules*
Marco Paggi
Associate Professor, Multi-scale Analysis of Materials Unit
IMT School for Advanced Studies Lucca, Italy
marco.paggi@imtlucca.it

*A hygro-thermal stress finite element analysis of laminated beam structures by hierarchical one-dimensional modelling*
Gaetano Giunta
Senior R&D Associate, Department of Materials Research and Technology
Luxembourg Institute of Technology, Luxembourg
gaetano.giunta@list.lu

*Refined structural models via axiomatic/asymptotic analyses and best theory diagrams*
Marco Petrolo
Assistant Professor, MUL$^2$ Group, Department of Mechanical and Aerospace Engineering
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*Low dimensional models for nonlinear dynamic analysis of composite shell structures*
Eelco Jansen
Associate Professor, Institute of Structural Analysis
Leibniz Universität Hannover, Germany
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*Adaptive compliant structures for flow regulation*
Alberto Pirrera
Lecturer in Composite Structures, Department of Aerospace Engineering
University of Bristol, UK
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*Virtual modeling of Polymer Matrix Composites (PMCs) from manufacturing to in service performances*
Marianna Maiarù
Assistant Professor, Department of Mechanical Engineering
UMass Lowell, USA
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*Node-Dependent structural models*
Enrico Zappino
Assistant Professor, MUL$^2$ Group, Department of Mechanical and Aerospace Engineering
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**Registrations** via email to marco.petrolo@polito.it - No Registration Fees - Deadline: 25 April 2017