



CHEMISTRY MEETS INDUSTRY AND SOCIETY

A CREATIVE SHOWCASE CONFERENCE

SALERNO (GRAND HOTEL)

28-30 AUGUST 2019

Friday, August 30th 2019

Scientific Program

WS6 – Energy for Mobility	
<i>Chairperson: Christian Durante</i>	
8:30 – 8:55	<i>Get together - Opening of W6 A. Blume, C. Durante, M. Galimberti, P. Zalar</i>
8:55-9:20	<i>WS6 OR01 – Antonino Salvatore Aricò (ITAE) Fuel cells and sustainable hydrogen production for automotive application</i>
9:20-9:45	<i>WS6 OR02 - Raimondo Hippoliti, Matteo Boggian, <u>Stefano Bastianello</u>, Nicola Bortolamei (FIAAM) Electric Mobility: an overview about the rising transition from Lead Acid to Li-ion battery technology</i>
WS6 – Sustainable Mobility	
<i>Chairperson: Anke Blume</i>	
9:45-10:10	<i>WS6 OR03 – Attilio Citterio (Politecnico Milano) Chemistry and Materials for sustainable mobility: strategy and perspectives</i>
10:10-10:35	<i>WS6 OR04 – <u>Fabian Grunert</u>, Andries van Swaaij, Anke Blume (University of Twente) How to meet the future mobility requirements of the automotive industry?</i>
10:10-10:35	<i>WS6 OR05 – Thomas Hanell (Pirelli) Material trends for the tire of the future</i>
11:00-11:30	Coffee break
<i>Chairperson: Maurizio Galimberti</i>	
11:30-11:55	<i>WS6 OR06 – C. Yamada, M. Sat, Amnuwa Beraheng, Kannika Sahakaro, Wilma K. Dierkes, Jacques W.M. Noordermeer, <u>Anke Blume</u> (University of Twente) New approaches to reduce the CO₂ emission of a passenger car by introducing innovative materials</i>
11:55-12:20	<i>WS6 OR07 – Marika Falciano (FCA) New materials for future mobility: the automotive sector involvement</i>
12:20-12:45	<i>WS6 OR08 – <u>Gianluca Casagrande</u>, Sabrina Fregni (Dow) Innovative polyurethane foams solutions to improve engine efficiency and total weight reduction while enhancing vehicle driver's comfort and safety</i>
12:45-14:10	Free lunch break

WS6 – Sustainable Mobility	
<i>Chairperson: Maurizio Galimberti</i>	
14:10-14:35	<i>WS6 OR09 – Ulrich Giese (DIK) Improvement of tire materials concerning light weight, permeability and rolling resistance using high effective filler systems</i>
14:35-15:00	<i>WS6 OR10 – Michele Grazzi (LyondellBasell) Advanced Product Performance to meet Light Weight Requirement for Transportation Segment</i>
15:00-15:25	<i>WS6 OR11 – Gianpiero Mastinu, Giorgio Previati, Vincenzina Barbera, Maurizio Galimberti (Politecnico Milano), Light weight materials for sustainable mobility: nanofillers and design</i>
15:25-15:50	<i>WS6 OR12 – Gianluca Casagrande, Sabrina Fregni (Dow) Cabin air quality improvement by low emission, aldehyde abatement and enhanced durability of new generation Polyurethane Interior Foams</i>
<i>Break</i>	
16:05-16:30	<i>WS6 OR13 – Paolo Giaccone Franco Fattorini (EPTANova), Printing and painting industries: processes and products for sustainable mobility</i>
WS6 – Smart Mobility	
<i>Chairperson: Peter Zalar</i>	
16:30-16:55	<i>WS6 OR14 – Mario Caironi (IIT) Printed Organic Electronics Solutions for Smart Electronic Systems</i>
16:55-17:20	<i>WS6 OR15 – Miguel Ribeiro, N. Durães, S. Silva, D. Esteves, J. Gomes (CeNTI) Development of nano and micro structured smart fibre devices</i>
17:20-17:45	<i>WS6 OR16 – Peter Zalar (Holst Centre / TNO) Applied Conformable Printable Sensor Systems</i>
17:45-19:00	<i>Poster Session of W6</i>
19:00	<i>Closing</i>

Poster Session of W6

17:45-19:00	<i>Poster Session</i>
	<i>WS6 PO01 – Valerio Margiotta, Maria Cecilia Palumbi, Giancarlo Cossu, Paolo Straffi, Angela Agostiano, M. Lucia Curri, Roberto Comparelli (IPCF-CNR) New multifunctional cross-linking promoters in curing process for tyre applications</i>
	<i>WS6 PO02 – <u>Marika Falciano</u> Vito Guido Lambertini, Paolo Chiappero, Marco Zanetti, Valentina Brunella (FCA) Eco-sustainable elastomeric materials for the automotive sector</i>
	<i>WS6 PO03 – <u>Gea Prioglio</u>, Silvia Agnelli, Winoj Balasooriya, Bernd Schritteser, Lucia Conzatti, Daniele Locatelli, Vincenzina Barbera, Maurizio Galimberti (Politecnico Milano) Sustainable materials for tyres. 1. Natural rubber compounds with better mechanical properties thanks to functionalized nanosized graphite</i>
	<i>WS6 PO04 – <u>Daniele Locatelli</u> Valeria Cipolletti, Giulia Peli, Luca Giannini, Vincenzina Barbera, Maurizio Galimberti (Politecnico Milano) Sustainable materials for tyres. 2. High aspect ratio natural fillers for rubber compounds with low dissipation of energy</i>
	<i>WS6 PO05 – <u>Fatima Margani</u>, Vincenzina Barbera, Daniele Locatelli, Valeria Cipolletti, Maurizio Galimberti (Politecnico Milano) Sustainable materials for tyres. 3. Biobased secondary accelerators for silica based compounds</i>
	<i>WS6 PO06 – <u>Lucia Rubino</u>, Martina Magrograssi, Vincenzina Barbera, Maurizio Galimberti (Politecnico Milano) Sustainable isocyanate-free polyurethanes</i>