

# ADVANCED SURFACES: CHARACTERIZATION & PERFORMANCES

## MILAN May 18 2017

| PROGRAM          |   |
|------------------|---|
| 08:30            | Introduction  |
| <b>Session 1</b> | <b>AUTOMOTIVE</b> (application plants, in-line control, required performances)  |
| 09:00            | Main lecture<br><b>Evolution in the automotive paint shop</b><br><i>A. Di Lucrezia - GEICO Taikisha</i>   |
| 09:30            | Lecture<br><b>Nitrotherm use with Rotary Bell. Trial with Solventborne Material</b><br><i>Prof. Akafuah e Prof. Salaimeh - Institute of Research for Technology Development (IR4TD), University of Kentucky - Eurosider</i> |
| 9:50             | Lecture<br><b>Innovative car body paint curing from the inside</b><br><i>Johannes T. Grobe - Durr PFS</i>   |
| 10:10            | Lecture<br><b>Electro-optical materials characterization for multifunctional plastic automotive radio/nav. Surfaces</b><br><i>M. Marguerite Dugand - Centro Ricerche Fiat</i>   |
| 10:30            | Lecture<br><b>Aluminum alloy wheels: surface treatments (tentative title)</b><br><i>C. Montesano, M. Mora - Fondmetal</i>   |
| 10:50 - 11:15    | Break   |
| <b>Session 2</b> | <b>ARCHITECTURE &amp; DESIGN</b> (materials and colours control)  |
| 11:15            | Main lecture<br><b>Perception and protection properties of paints with different colour pigments</b><br><i>S. Rossi, M. Fedel, F. Deflorian - Università di Trento</i>  |
| 11:45            | Lecture<br><b>Evolution of color Language</b><br><i>F. Valan - Associazione del Colore</i>  |
| 12:05            | Lecture<br><b>Innovative and functional effects in coating</b><br><i>S. Corrado - Merck</i>   |
| 12:25- 14:00     | Main Break  |
| <b>Session 3</b> | <b>PAINT APPLICATIONS</b> (Pre-treatments, Finishing)   |
| 14:00            | Main lecture<br><b>Surface modification and patterning of UV-cured coatings</b><br><i>R. Bongiovanni, E. Ozzello, A. Vitale - Politecnico di Torino</i>   |
| 14:30            | Lecture<br><b>Super-durable polyester-based powder coatings for heat-transfer decoration - chemistries and technologies</b><br><i>T. Rossini, G. D'Ambrosio - Akzo Nobel</i>  |
| 14:50            | Lecture<br><b>Silicon alkoxides pre-treatments prior to painting: successes and failures</b><br><i>M. Fedel, S. Rossi, F. Deflorian - Università di Trento</i>  |
| 15:10 - 15:35    | Break   |
| <b>Session 4</b> | <b>METAL</b> (organic special coatings)   |
| 15:35            | Main lecture<br><b>Techniques for real time process control in thin film deposition</b><br><i>S. Luridiana - Tecnovacuum</i>  |
| 16:05            | Lecture<br><b>Surface finishing of metallic parts processed by additive manufacturing</b><br><i>A. Falzetti, N. Lecis, A. Redaelli, M. Vedani - Politecnico di Milano</i><br><i>A. Giussani, L. Sala - Rösler Italiana</i>  |
| 16:25            | Lecture<br><b>Mechanically induced surface nanocrystallization of AZ31 Mg alloy by Severe Shot Peening</b><br><i>S. Bagherifard, M. Guagliano - Politecnico di Milano</i>   |
| 16:45            | Closing   |