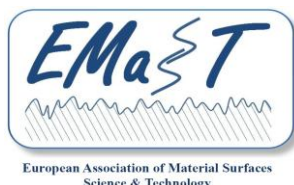




**EUROPEAN SYMPOSIUM ON  
Surface Science**

*1<sup>st</sup> Edition*

*Organized by*



## *Final Programme*

*November 26-28, 2014*

*Rome (Italy)*

### *26/11/2014 - Morning*

*Chairman: D. Kotzias*

	8:00-9:30	<b>Registration</b>
	9:30-10:00	<b>Opening Ceremony &amp; Welcome Addresses</b> L. MAZZOLA (President of EMASST)
	10:00-10:40	V. DI FELICE/M. VALENTINO*
	<b>INVITED LECTURE</b>	Italian Ministry of Research (MIUR)
<b>SMART COATINGS</b>	10:40-11:10	<b>Functional model coatings with adjustable roughness</b> N. FELDE (Fraunhofer Institute for Applied Optics and Precision Engineering)
	11:10-11:30	<i>Coffee-break</i>
	11:30-12:00	<b>Amphiphobic, highly durable coatings on industrial materials</b> F. VERONESI (CNR - Institute of Science and Technology for Ceramic)
	12:00-12:30	<b>Nano-rough (super)hydrophobic surfaces</b> L. CORIAND (Fraunhofer Institute for Applied Optics and Precision Engineering)
	12:30-13:00	<b>Superhydrophobic coatings for antifouling and protection in marine environment</b> M. FERRARI (CNR - Institute for Energetic and Interfaces)
	13:00-15:00	<i>Lunch break</i>

*\*to be confirmed*

### *26/11/2014 - Afternoon*

*Chairman: M. Pedferri*

<b>SMART COATINGS</b>	15:00-15:40	<b>Surfaces and nanomaterials for aircrafts and aerospace vehicles: overview of the technological applications at CIRA</b> F. DE NICOLA (CIRA - Italian Aerospace Research Centre)
	15:40-16:10	<b>New anti-ice coating for aeronautical application</b> L. MAZZOLA (CIRA - Italian Aerospace Research Centre)
	16:10-16:30	<i>Coffee-break</i>
	16:30-17:00	<b>Advanced XPS Depth Profiling of Organic/Inorganic Thin Films</b> M. MANNBERGER (Thermo Fischer Scientific, Austria)
	17:00-17:15	<b>Discussion (end 1<sup>st</sup> day)</b>

### 27/11/2014 - Morning

Chairman: L. Coriand

ADVANCES IN SURFACE MODIFICATION, CHARACTERIZATION, MANUFACTURING & PROCESSING	9:30-9:40	Opening of the 2 <sup>nd</sup> day
	9:40-10:10	<b>Influence of etching processes on the oxide layer formation during anodizing of Ti6Al4V</b> T. MERTENS (Airbus Defense & Space, GmbH)
	10:10-10:40	<b>Design of metal-ceramic interfaces for high temperature applications</b> F. VALENZA (CNR - Institute for Energetic and Interfaces)
	10:40-11:10	<b>SAXS investigation of the porous solid Nb surface inhomogeneities</b> L. SKATKOV (PCB "Argo", Israel)
	11:10-11:30	<i>Coffee-break</i>
	11:30-12:00	<b>Surface tension of melts: experiments and modeling</b> E. RICCI (CNR - Institute for Energetic and Interfaces)
	12:00-12:30	<b>Mechanochemical processing of kaolins for the synthesis of potassium- based poly-siloxo sialate (K-PSS) geopolymeric binders</b> P. CICCIOLO (CNR - Methodological Chemistry Institute)
	12:30-13:00	<b>The low-temperature (LT) gas-atmosphere processing of stainless alloys surfaces – a potential new technology for surface properties enhancement</b> C. SARBU (National Institute for Materials Physics, Romania)
13:00-15:00	<i>Lunch break</i>	

### 27/11/2014 - Afternoon

Chairman: T. Mertens

	15:00-15:30	<b>Adsorption on ferroelectric surfaces of simple polar molecules</b> N. G.APOSTOL (National Institute of Materials Physics & Elettra – Sincrotrone Trieste S.C.p.A.)
	15:30-16:00	<b>Surface membrane modification by polymerisable bicontinuous microemulsions (PBM) for water treatment application</b> A. FIGOLI (CNR - Institute for Membrane Technology)
	16:00-16:30	<i>Coffee-break</i>
MATERIALS ENVIRONMENT INTERACTION	16:30-17:00	<b>Anodic TiO<sub>2</sub> in UV- and visible light-driven water purification</b> M. PEDEFERRI (Politecnico di Milano - Department of Chemistry, Materials and Chemical Engineering)
	17:00-17:20	<b>Discussion (end 2<sup>nd</sup> day)</b>

### 28/11/2014 - Morning

Chairman: P. Cicciole

MATERIALS ENVIRONMENT INTERACTIONS	9:00-09:40 INVITED LECTURE	<b>Heterogeneous photo-catalytic degradation of environmental chemicals on building materials modified with the addition of TiO<sub>2</sub></b> D. KOTZIAS (EMASST & Former Head of Unit, European Commission, Joint Research Centre, Institute for Health and Consumer Protection)
	9:40-10:10	<b>Thermal stabilization of commercial titania photocatalyst by Zr(IV) organic salts</b> A. STRINI (CNR - Construction Technologies Institute)
	10:10-10:40	<b>Impact of laboratory aging with water and UV exposition on the nitric oxide degradation activity of cement based photocatalytic samples</b> L. BOTTALICO (CTG spa - Italcementi Group)
	10:40-11:10	<b>Surface chemistry of water on iron oxide: an UHV study</b> P. DEMENTYEV (Fritz-Haber-Institut der Max-Planck-Gesellschaft)
	11:10-11:30	<i>Coffee-break</i>
NANOTECHNOLOGY & NANOMATERIALS	11:30-12:10 INVITED LECTURE	<b>Activities at the European Commission's Joint Research Centre on Nanomaterials Safety</b> H. STAMM (Joint Research Centre, Institute for Health and Consumer Protection, Ispra)
	12:10-12:40	<b>Characterization of nanomaterials surface chemistry: Challenges and needs</b> G. CECCONE (Joint Research Centre, Institute for Health and Consumer Protection, Ispra)
	12:40-13:10 INVITED LECTURE	<b>Polymer Nanocomposite: Functionalization of the Nanofiller and Control of the Interface</b> C. CARFAGNA (CNR - Institute of Polymer, Composites and Biomaterials)
	13:10-15:00	<i>Lunch break</i>

### 28/11/2014 - Afternoon

Chairman: A. Cusmà

	15:00-15:30	<b>Influence of the nanocrystalline structure in titanium on diffusion processes</b> P. WIECINSKI (Warsaw University of Technology)
	15:30-16:00	<b>Surface nanoscale texturing by ultrashort laser pulses to enhance solar absorbance</b> D. TRUCCHI (CNR - Institute of Structure of Matter)
	16:00-16:30	<b>A Comparative Study of Transport Properties of Monolayer Graphene and AlGa<sub>n</sub>/Ga<sub>n</sub> Heterostructure</b> M. D. OZDEMIR (Aksaray University - Department of Physics, Turkey)
	16:30-17:00	<b>Discussion and closing the Symposium (end 3<sup>rd</sup> day)</b> L. MAZZOLA (President of EMASST)