

# SMT 37 preliminary program

## Symposium on arts and Surface preliminary program

			<b>Auditorium</b>	<b>Room 1</b>	<b>Room 2</b>	<b>Room 3</b>
<b>April 22</b>						
Welcome desk opens	9.00	17.00				
<b>Conference opening address</b>	<b>10.00</b>	<b>10.30</b>	<b>Introduction</b>			
<b>Plenary Talk T.S. Sudarshan</b>	<b>10.30</b>	<b>11.20</b>	<b>General</b>			
Coffee Break	11.20	11.40				
<b>Parallel sessions</b>	<b>11.40</b>	<b>12.40</b>		<b>Thermal and cold spray</b>	<b>Additive manufacturing</b>	<b>Anodisation/PEO/conversion</b>
				Clavé Battle Genís : Molten salt and nanofluid corrosion mitigation in TES tanks via Inconel 625-HVOF protective coatings	Ikiz Meris Meric: Optimizing surface roughness, physical and chemical characteristics of additive manufactured nitinol through electropolishing	Tournay-Dufrenne Isis: Corrosion Protection of AZ31 magnesium alloy by PEO layers modified by zinc incorporation for Biomedical Applications
				Arseenko Mariia: Towards Additive Printed Electronics: Conformal 3D Heaters with Individual Control	Boucher Aurélien: Simulation of Particle-Based Post-Processing for Additive Manufacturing: Towards Granular Approaches Applicable at Industrial Scale	Rakotonirina José: Influence of Surface Roughness, Porosity, and Sol-Gel Sealing on the Nanomechanical Properties of Plasma Electrolytic Oxidation Coatings on AA1050 and AA2024 Alloys
				Poza Pedro: Wear resistance under oscillating conditions of Cold Sprayed Additive Manufactured Ti alloys		
Lunch Break	12.40	13.50				
<b>Parallel sessions</b>	<b>13.50</b>	<b>15.10</b>		<b>Thermal and cold spray</b>	<b>surface characterization</b>	<b>Electro/electroless coatings</b>
				Yosri Khalsi: Développement de surfaces auto-biocides à base de revêtements cuivreux élaborés par cold spray et texturés par jet d'azote supercritique SNJ	Nier Natalia: Correlative Analysis of Near-Surface Parameters for Material-Specific Prediction of Residual Stresses in Shot Peening	Hihn Jean-Yves: Optimization of surface preparation, electrodeposition and passivation layer for high performance zinc iron systems.
				Kumaravel Magesh: Enhancing the cold sprayability of refractory type - complex concentrated alloy TaNbTiVCr	Seveno David :Identifying hidden interactions at ice-surface interfaces by freezing X-ray computed microtomography	Cobley Andrew: The impact of pre-treatment and electroless copper plating conditions on the metallisation of natural fibre-based textiles
				Vicente Albaladejo: Feasibility Study for the Co-Deposition of NiAl Intermetallic Coatings by Cold Gas Spray		Alexis Joel: Thermal Ageing Effects on Microstructure, Mechanical Properties and Adhesion of Trivalent Hard Chromium Coatings
				Dlouhá Žaneta : Influence of Bond Layer Type on the Tribological Behavior of Thermally Sprayed Stainless Steel Coatings on CFRP Substrate		
Coffee Break	15.10	15.40				

<b>Parallel sessions</b>	<b>15.40</b>	<b>17.10</b>		<b>Thermal and cold spray</b>	<b>functional coatings/ Surface texturation hydrophobic/philic</b>	<b>Electro/electroless coatings</b>
<b>Invited</b>				<b>TBD</b>	<b>Sarkar Dilip</b>	<b>TBD</b>
				Lalu Koithara Libin : Interface surface modification for cold sprayed deposition of high conductivity copper in advanced thermal management applications along with surface quality measurements	Culot Alexandre :Plasma Polymer Film as a Sacrificial Interlayer to Enhance Metalized Polymers Disassembly for Recycling	Khalili Mohammad Reza : An investigation into the development of formaldehyde-free electroless copper plating
				Lebbar Inass :Mechanical Characterization of Al7075 Powder Particles for Cold Spray Modeling	Federico Apolloni : Controlling the antibacterial properties of biomaterials through the combination of plasma polymerization and plasma etching	Nguyen Thao : Design of a cyanide-free gold electroplating bath and evaluation of current density effects on deposit quality
				Yosri Khalsi :Métallisation du PEEK par projection Cold Spray assistée par jets fluide à haute pression	Yeyetunde Omowunmi-Kayode Yvonne : Development of a functional relationship between surface morphology parameters and resulting wettability for laser textured Ti-6Al-4V	Boucher Aurélien: Electrolytic deposition: Modeling hydrogen flow to understand and optimize processes at microscopic and macroscopic scales
Social program	18.00	21.00	Visit of BPS22 and cocktail			
<b>April 23</b>						
Welcome desk opens	8.00	17.00				
<b>Parallel sessions</b>	<b>9.00</b>	<b>10.30</b>		<b>Anodisation/PEO/conversion</b>	<b>Functional coatings</b>	<b>Surface texturation hydrophobic/philic</b>
				Peng Zhou : Constructing an electrically conductive chemical conversion coating on Mg alloy	Nouvellon Corinne : Innovative and advanced colors by PVD sputtering	Bartarya Gaurav : Controlled Surface Texturing through 1D and 2D Vibration Assisted Machining to improve Tribological Performance of Ti-6AL-4V
				Zhang Tao: A novel anti-corrosion strategy for ultra-high purity 316L stainless steel in the semiconductor industry: Leveraging alternating voltage passivation and nitric acid passivation	Monteverde Fabien : GOLD-PAWS - Sustainable Production Process for High-Quality Gold-Plated Wires for Antennae	Hihn Jean-Yves: New insights in electropolishing of gold and gold alloys : electrolytes - agitation - wave polarization
				Klumpp Rafael Emil : Surface Functionalization of Titanium for Medical Implants Using Plasma Electrolytic Oxidation, Hydrothermal post-treatment and Sol-Gel	Boudiba Abdelhamid: Chromium and PFAS-Free Sol-Gel Coatings for Aircraft Wing Leading-Edge Protection	Lamour Laora :Role of chemistry changes in the hydrophobic transition following femtosecond laser texturing of metals
<b>Invited</b>				<b>Endzhe Matykina</b>	<b>TBD</b>	<b>TBD</b>
Coffee Break	10.30	11.00				
<b>Plenary Talk S.Valette</b>	<b>11.00</b>	<b>12.00</b>	<b>Surface texturation</b>			
Lunch Break	12.00	13.30				
<b>Plenary S. Konstantinidis</b>	<b>13.30</b>	<b>14.20</b>	<b>PVD coatings</b>			
<b>Posters speed presentations</b>	<b>14.20</b>	<b>15.10</b>				
Coffee Break and <b>poster session</b>	15.10	18.00				
Social program	TBD	00.00	visit of Abbaye d'Aulne and conference dinner			

April 24						
Welcome desk opens	8.00	14.00				
<b>Parallel sessions</b>	<b>9.00</b>	<b>10.30</b>		<b>Arts and surface</b>	<b>Corrosion and tribology</b>	<b>Mechanical surface treatments</b>
<b>Invited</b>				<b>Piccardo Paolo : Surfaces, colors, and hidden information on casting bronzes</b>	<b>TBD</b>	<b>Belen Garcia : Surface Engineering Approaches for Aluminum AM Heat Exchangers: From Chemical</b>
				Roberto Spotorno : Electrochemical probe for localized corrosion diagnostics on cultural heritage artifacts	Legrand Quentin : Electrochemical investigation on femtosecond-laser textured surfaces of 316L stainless steel	Rubino Felice : Improvement of surface quality of additively manufactured Ti6Al4V by post-processing machining treatment: optimization of process parameters and environmental sustainability
				Török Béla : Technological lessons learned from archaeometric examinations of decorative surface modifications on medieval metal objects found in Hungary.	Moreno Lara : Influence of Tris-buffered SBF on the corrosion behaviour of duplex PEO and PEO/Sol-Gel coatings on AZ31 alloy	Kalipada Maity Kalipada : Machining Performance Enhancement of Inconel 925 Using Cryogenically Treated and Tempered Cutting Tools
				François Berkman: 3D Surface Topography and Multi-Scale Analysis as Tools for the Study, Interpretation and Authentication of Artworks	Zhang Zhihan : MAO/LDHs@MOFs self-healing Composite Coating on the AZ31 Magnesium Alloys	
				TBD		
Coffee Break and <b>poster session for the symposium on arts and surface</b>	10.30	11.20				
<b>Plenary Talk A Giumlia Nair</b>	<b>11.20</b>	<b>12.10</b>	<b>Arts and surface</b>			
Lunch Break	12.10	13.30				
<b>Parallel sessions</b>	<b>13.30</b>	<b>15.10</b>		<b>Arts and surface</b>	<b>Corrosion and tribology</b>	<b>Mechanical surface treatments/Thermal and cold spray</b>
				TBD	Pham Thu Thuy : The role of Picolinoyl N4-phenylthiosemicarbazide modified ZnAl layered double hydroxide conversion layers in barrier performance of acrylic coating on electrogalvanized steel	Parameswaran Elangovan : Alpha Case Removal from Titanium Sheet using Cavitation Abrasive Surface Finishing Process
				TBD	Manousakis Aristotelis : Concentrated Solar Energy surface processing for elaboration of wear-resistant NbC-reinforced surface layers	Rubino Felice : FSW-Cold Spray Coupling for the Improvement of Aluminum Alloy Joints
				TBD	Garrido Maneiro Miguel Angel : Erosive Wear Analysis of Aeronautical Components Manufactured by Cold Spray Additive Manufacturing	Heydari Astaraee Asghar : Cold spray deposition of diffusion-bonded bi-metal powder feedstock
				TBD	Yang Kang : Silk fibroin coating on biomaterials: processing, anti-corrosion and biofunctionality	Bagayoko Nouhoum : Heat Control to Achieve the Desired HAZ Microstructure in Martensitic Steels and Reduce Cracking in PTA Chromium Coatings
Closing ceremony	15.10	15.40	General			
Final coffee break	15.40	16.40				