

SMT 37 Program
Symposium on arts and Surface preliminary program

			Room S.1.05	Room S.1.05	Room S.1.06	Room N.1.01
April 22						
Welcome desk opens	9.00	17.00				
Introduction	10.00	10.30	Conference opening address by Prof Marc Labie, Vice Chancellor of UMONS			
Plenary Talk T.S. Sudarshan	10.30	11.20	General	Spectrum of Innovations in Surface Engineering		
Coffee Break	11.20	11.40				
Parallel sessions	11.40	12.40		Thermal and cold spray	Electro/electroless coatings	Anodisation/PEO/conversion
			Clavé Battle Genís : Optimization of Heat Treatments for Cold Gas Sprayed Fe ₃ Al and Fe ₃ Al/TiC Coatings: Phase Evolution and Mechanical Performance	Rauch Jeanne-Marie : Optimization of surface preparation, electrodeposition and passivation layer for high performance zinc iron systems.	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	Cobley Andrew: The impact of pre-treatment and electroless copper plating conditions on the metallisation of natural fibre-based textiles	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	Alexis Joel: Thermal Ageing Effects on Microstructure, Mechanical Properties and Adhesion of Trivalent Hard Chromium Coatings		
Lunch Break	12.40	13.50				
Parallel sessions	13.50	15.10		Thermal and cold spray	surface characterization / additive manufacturing	
			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		
			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		
			Vicente Albaladejo: Feasibility Study for the Co-Deposition of NiAl Intermetallic Coatings by Cold Gas Spray	Ikiz Meris Meric: Optimizing surface roughness, physical and chemical characteristics of additive manufactured nitinol through electropolishing		
			Dlouhá Žaneta : Influence of Bond Layer Type on the Tribological Behavior of Thermally Sprayed Stainless Steel Coatings on CFRP Substrate	Marchais Kévin : Simulation of Particle-Based Post-Processing for Additive Manufacturing: Towards Granular Approaches Applicable at Industrial Scale		
Coffee Break	15.10	15.40				
Parallel sessions	15.40	17.10		Thermal and cold spray	functional coatings/ Surface texturation hydrophobic/philic	Electro/electroless coatings
Invited				Sheng Yuan : Cold Spray-Induced Features Driving Corrosion Behavior		Belen Garcia : Surface Engineering Approaches for Aluminum AM Heat Exchangers: From Chemical Polishing to Electroless Ni-P Coating
			Lebbar Inass :Mechanical Characterization of Al7075 Powder Particles for Cold Spray Modeling	Culot Alexandre :Plasma Polymer Film as a Sacrificial Interlayer to Enhance Metalized Polymers Disassembly for Recycling	Khaliti Mohammad Reza : An investigation into the development of formaldehyde-free electroless copper plating	
			Yosri Khalsi :Métallisation du PEEK par projection Cold Spray assistée par jets fluide à haute pression	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	
				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 (See 'social program' for more information on the timing)			

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April 23						
Welcome desk opens	8.00	17.00				
Parallel sessions	9.00	10.30		Anodisation/PEO/conversion	Functional coatings	Surface texturation hydrophobic/philic
				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
Invited				Endzhe Matykina: Corrosion behavior of anodized and Flash-PEO treated LPBF Ti6Al4V manufactured with reused powder		
Coffee Break	10.30	11.00				
Plenary Talk S.Valette	11.00	12.00	Surface texturation	Reflections on the super-hydrophobicity of bio-inspired surfaces		
Lunch Break	12.00	13.30				
Plenary S. Konstantinidis	13.30	14.20	PVD coatings	Plasma-based magnetron sputtering for thin film deposition and more		
Posters speed presentations	14.20	14.40				
Coffee Break and poster session	14.50	16.00				
Social program	16:00	00.00	Visit of Abbaye d'Aulne and conference dinner (See 'social program' for more information on the timing)			

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April 24						
Welcome desk opens	8.00	14.00				
Parallel sessions	9.00	10.30		Arts and surface	Corrosion and tribology	
Invited				Piccardo Paolo : Surfaces, colors, and hidden information on casting bronzes	Liang Wu : MAO/LDHs@MOFs self-healing Composite Coating on the AZ31 Magnesium Alloys	
				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	
				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	
				François Berkman : 3D Surface Topography and Multi-Scale Analysis as Tools for the Study, Interpretation and Authentication of Artworks	Rubino Felice : Improvement of surface quality of additively manufactured Ti6Al4V by post-processing machining treatment: optimization of process parameters and environmental sustainability	
Coffee Break and poster session for the symposium on arts and surface	10.30	11.20				
Plenary Talk A Giumlia Nair	11.20	12.10	Arts and surface	Black variations on metals in antiquity: an updated survey		
Lunch Break	12.10	13.30				
Parallel sessions	13.30	14.30		Corrosion and tribology	Thermal and cold spray	
				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	Heydari Astaraee Asghar : Cold spray deposition of diffusion-bonded bi-metal powder feedstock	
				Manousakis Aristotelis : Concentrated Solar Energy surface processing for elaboration of wear-resistant NbC-reinforced surface layers	Bagayoko Nouhoum : Heat Control to Achieve the Desired HAZ Microstructure in Martensitic Steels and Reduce Cracking in PTA Chromium Coatings	
				Garrido Maneiro Miguel Angel : Erosive Wear Analysis of Aeronautical Components Manufactured by Cold Spray Additive Manufacturing	Kalipada Maity Kalipada : Machining Performance Enhancement of Inconel 925 Using Cryogenically Treated and Tempered Cutting Tools	
Closing ceremony	14.30	15.00	General	Closing ceremony		
Final coffee break	15.00	16.00				