

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 | Hihn Jean-Yves: 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 Khatsi: 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 | Boucher Aurélien: 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 | | Belen Garcia : Surface Engineering Approaches for Aluminum AM Heat Exchangers: From Chemical Polishing to Electroless Ni-P Coating |
| | | | | 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 Khatsi :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 | 22.00 | 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 | | | | |