

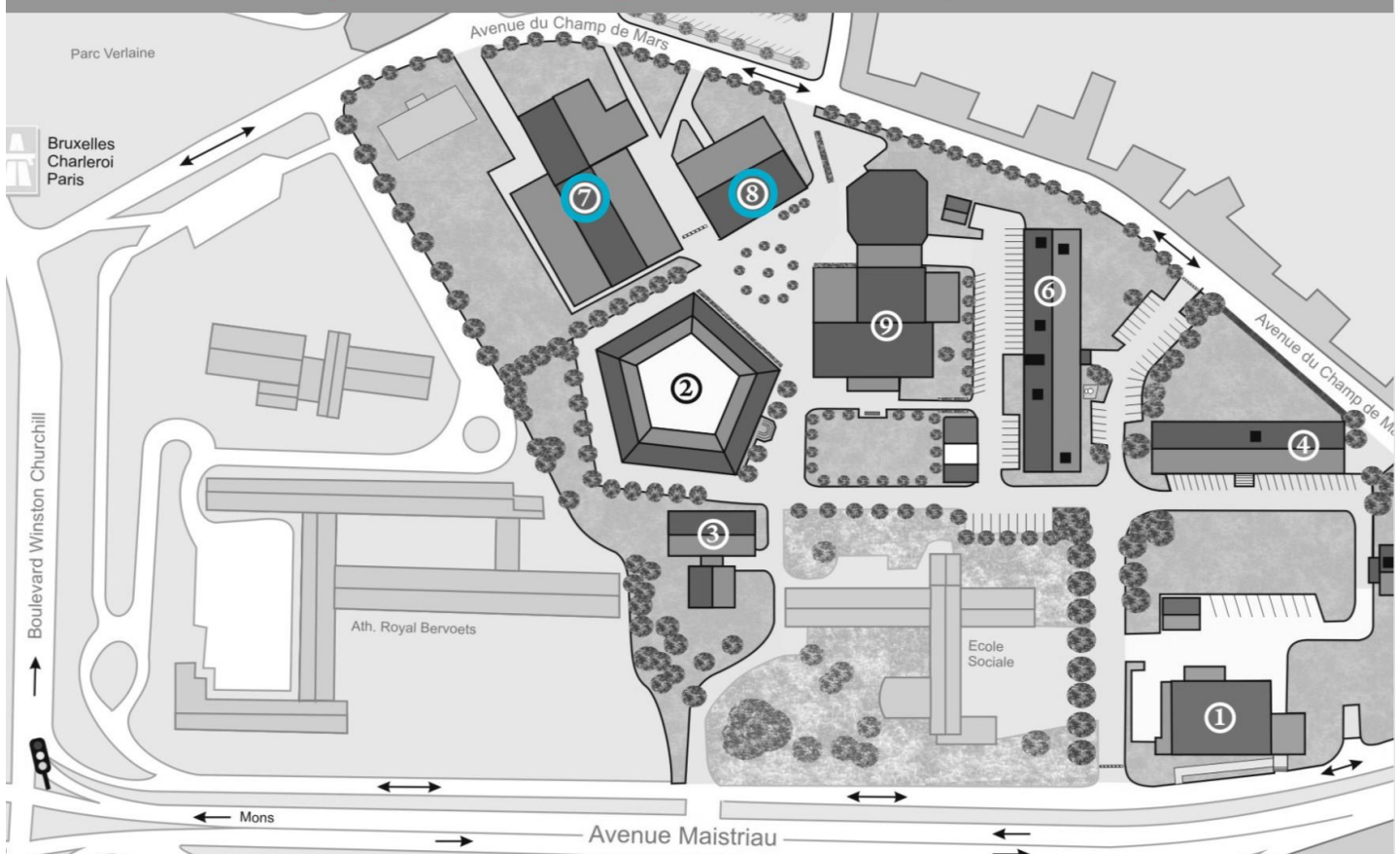
# PROGRAM

<b>WEDNESDAY</b>	<b>Vésale La Fontaine</b>	<b>Vésale 030</b>	<b>Vésale 023</b>
8h30-9h15	Registration		
9h15-10h15	Presentation of the conference -introductory talk: T. S. Sudarshan (MatMod INC - USA): "Emulate to Innovate" - Vésale La Fontaine		
10h15-10h45	Coffee break		
10h45-11h30	Plenary 1: Prof. Dr. Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht - Germany): "Active protective coatings with nano-containers of corrosion inhibitors" - Vésale La Fontaine		
11h30-12h00	Poster teasers 1	Poster teasers 2	Poster teasers 3
12h00-12h40	Surface characterization	coatings for electronics, photovoltaics and sensors	Wear and tribological applications
12h40-14h	Lunch – exhibition and posters		
14h-15h20	Surface characterization	coatings for electronics, photovoltaics and sensors	Wear and tribological applications
15h20-16h00	Coffee break		
16h-17h20	Surface characterization	conversion and plasma electrolytic oxidation	Wear and tribological applications
18h30	Welcome drink - Mundaneum (see city map)		

<b>THURSDAY</b>	<b>Vésale La Fontaine</b>	<b>Vésale 030</b>	<b>Vésale 023</b>
8h30-9h20	Registration		
9h20-10h20	coatings for electronics, photovoltaics and sensors / Functional coatings	conversion and plasma electrolytic oxidation	electro and electroless plating
10h20--11h00	Coffee break		
11h-11h45	Plenary 2: Michel Jeandin (Mines Paris, France): "Cold Spray under the banner of thermal spray in the whirlwind of additive manufacturing" - Vésale La Fontaine		
11h45-12h05	Poster teasers 4	Poster teasers 5	Poster teasers 6
12h05-12h45	functional coatings	conversion and plasma electrolytic oxidation	electro and electroless plating
12h45-14h10	Lunch – exhibition and posters		
14h10-15h30	functional coatings	special topics	electro and electroless plating
15h30-16h20	Coffee break		
16h20-17h	functional coatings		electro and electroless plating
17h30-18h45	Guided tour of the city center of Mons (Grand place, see map)		
19h30	Conference Dinner (Congres Hotel Mons, see map)		

<b>FRIDAY</b>	<b>Vésale La Fontaine</b>	<b>Vésale 030</b>	<b>Vésale 023</b>
9h-10h20	corrosion and corrosion protection	cold spray	Hydro/Oleo/Ice Phobic/philic surfaces
10h20--11h00	<i>coffee break</i>		
11h-11h45	Plenary 3: Dr. Salvador Pané i Vidal (ETH Zürich - Switzerland): "Electrochemical processing technologies: a versatile approach for manufacturing micro- and nanomachines" - Vésale la Fontaine		
11h45-13h05	corrosion and corrosion protection	cold spray	Hydro/Oleo/Ice Phobic/philic surfaces
13h05-14h20	<i>Lunch – exhibition and posters</i>		
14h20-16h20	surface modification of non-metallic materials	Thermal spray	Hydro/Oleo/Ice Phobic/philic surfaces
16h00-16h20	<i>coffee break</i>		
16h20-17h00	<i>Closing ceremony and best poster awards</i>		

## UMONS - Campus Plaine de Nimy - Avenue du Champ de Mars - 7000 Mons



**BAT 7** - Centre Vésale: salles La Fontaine, 023 et 030 - **BAT 8** - Restaurant universitaire

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10H15-10h45		Coffee break					
10h45-11h30		Plenary 1: Prof. Dr. Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht - Germany): "Active protective coatings with nano-containers of corrosion inhibitors"					
11h30-12h00		Poster teasers		Poster teasers		Poster teasers	
12h00-12h40	12h00-12h20	Surface characterization chairs: E. Bemporad + A. Tricoteaux	Tom Pinto, TWI LTD Novel Surface Modification Improvements and Opportunities Utilising Electron Beams	coatings for electronics, photovoltaics and sensors Chair: M. Debliquy	Xin Geng, Service de Science des Matériaux, Faculté Polytechnique, University of Mons, NO2 gas sensors based on suspension flame-sprayed oxygen vacant zinc oxide sensitive coatings on flexible polypropylene papers	Wear and tribological applications chairs: E. S. Puchi-Cabrera + M.H. Staia	Shaikh Asad Ali Dilawary, ISTANBUL TECHNICAL UNIVERSITY, , LSM of Stellite 12 + 10wt%Mo hardfacing alloy for enhancement in wear resistance
	12h20-12h40		Jean Luc Grosseau Poussard, Université de La Rochelle, France, Comparison of growth stresses developed in a thermally grown oxide on a nanocrystallised stainless steel, evaluated by in-situ Raman spectroscopy and numerical simulations		Carla Bittencourt, University of Mons, Aerosol-Assisted CVD-Grown PdO Nanoparticle-Decorated Tungsten Oxide Nanoneedles for Hydrogen detection		Mohammad Uddin, School of Engineering, University of South Australia, Geometric characterization and tribological performance of micro-dimples fabricated by micro-milling
12h40-14h		Lunch – exhibition and posters					
14h-15h20	14h-14h40	Surface characterization chairs: E. Bemporad + A. Tricoteaux	Keynote: Edoardo Bemporad, Università Degli Studi Roma Tre, Evaluation of Stress in Coatings, traditional way vs. new approaches	coatings for electronics, photovoltaics and sensors Chair: M. Debliquy	Keynote: Chao Zhang, College of Mechanical Engineering, Yangzhou University, Xin Geng, UMONS, Room-temperature nitrogen-dioxide sensitive zinc oxide coatings constructed by solution precursor plasma spray	Wear and tribological applications chairs: E. S. Puchi-Cabrera + M.H. Staia	Keynote: Eli Saul Puchi-Cabrera, Université Lille Nord de France, UVHC, LAMIH UMR CNRS 8201, Valenciennes, France, Mechanical characterization of multilayer coatings prior to wear testing
	14H40-15h00		Davies Tsikayi, Nelson Mandela Metropolitan University (SA), Microstructural characteristics of laser surface engineered friction welded ti6al4v eli specimens		Marc Debliquy, UMONS, A hybrid gas sensor based on polypyrrole on graphene		Sonia Bruhl, National University of Technology (UTN), Argentina, Wear and adhesion properties of a PVD duplex coated medium alloy steel for plungers in the Oil and Gas industry
	15h00-15h20		Caroline Ho, Laboratoire Génie de Production ENIT-LGP, Mechanical Adhesion of SiO2 Thin Film on a Polymeric Substrate under Compressive Stress		Wouter Marchal, UHasselt, Institute for Materials Research (IMO-IMOMEC), Inorganic and Physical Chemistry, Hasselt, Ultrasonically spray coated silver layers from designed precursor inks for flexible electronics		Jiewen Huang, Tribological property of MoS2 containing Ti(C, N) and TiO2 coatings prepared via cathodic plasma electrolytic deposition and saturation simultaneously
15h20-16h00		Coffee break					
16h-17h20	16h00-16h20	Surface characterization chairs: E. Bemporad + A. Tricoteaux	Arnaud Tricoteaux, LMCPA University of Valenciennes and Hainaut Cambresis, Study of the influence of the elastic recovery during conventional Knoop indentation tests on ceramics	conversion and plasma electrolytic oxidation chairs: U. Malayoglu + S. Shrestha	Adriano Panepinto, University of Mons, Synthesis of N-doped TiO2 thin films by co-reactive magnetron sputtering for dye-sensitized solar cells applications	Wear and tribological applications	Denis Busardo, Quertech, Superficial improvement of metallic alloys by implantation diffusion with multicharged ion beam
	16h20-16h40		Jianqiang Zhou, University of Technology of Troyes, France, Cyclic behavior of gradient microstructured layer generated by surface mechanical attrition treatment for an austenitic stainless steel		Murat Baydogan, presented by Yakup Yurekturk, Department of Metallurgical and Materials Engineering, Istanbul Technical University, Microstructural characterization of micro arc oxidized ZA-8 zinc-aluminum alloy		
	16h40-17h				Julien Martin, Institut Jean Lamour - UMR 7198 CNRS - Université de Lorraine, Why is there a delay in micro-discharges breakdown during plasma electrolytic oxidation of aluminium?		
18h30		Welcome drink					

<b>THURSDAY</b>		<b>Vésale La Fontaine</b>		<b>Vésale 030</b>		<b>Vésale 023</b>	
<i>8h30-9h20</i>				<i>Registration</i>			
9h20-10h20	9h20-9h40	coatings for electronics, photovoltaics and sensors chair: C. Bittencourt	Arnaud Krumpmann, Faculty of Engineering, University of Mons, A flexible solid-state dye-sensitized solar cell based on an anodized titanium substrate and a spin-coated silver nanowires counter electrode	conversion and plasma electrolytic oxidation chair : G. Vara	Luca Pezzato, Università di Padova, PEO COATINGS WITH FUNGICIDAL PROPERTIES	electro and electroless plating chairs: F. Delaunois + S. Pane i Vidal	Narinder Bains, Coventry University, The Effect of Ultrasound on Acid Copper Electroplating Additive - Sulphopropyl Sulphonate
	9h40-10h00		Ramanathan Arunachalam Mechanical & Industrial Engineering Department, Sultan Gaboos University, Oman, Effect of surface modification on the morphology of ruthenium oxide deposited from ruthenium nitrosylsulfate electrolyte for supercapacitor applications		Belen Garcia, IK4-CIDETEC, Preparation of dark anodic coatings on Mg alloy using phosphate electrolytes with ammonium metavanadate		Gregory Guilbert, MATERIA NOVA, Silver plating from a cyanide-free bath and effect of ultrasonic power on the characteristics of Ag coatings
	10h-10h20	functional coatings	Dorian Deschuyteneer, CRIBC, Selective and functional coatings made by two-step laser cladding		Michele Fedel, University of Trento, Italy, Characterization of Ce-based conversion coating on HPDC low Si content aluminum alloy		Jean-François Vanhumbecq, CRM Group, On the influence of pulse parameters on the chemistry and performances of wear-resistant electrodeposited Fe-C coatings
<i>10h20--11h00</i>		<i>Coffee break</i>					
11h-11h45		Plenary 2: Michel Jeandin (Mines Paris, France): "Cold Spray under the banner of thermal spray in the whirlwind of additive manufacturing"					
11h45-12h05		Poster teasers		Poster teasers		Poster teasers	
12h05-12h45	12h05-12h25	functional coatings chairs: D. Schaubroeck + S. Rossi	Giulia Brunello, University of Padova, Department of Management and Engineering, Vicenza, Italy, Sphene bioceramic coatings for dental and orthopedic implant: process study and coating characterization	conversion and plasma electrolytic oxidation chair : G. Vara	Keynote : Suman Shrestha, Keronite, High potential of plasma electrolytic oxidation ( <b>HI</b> gh <b>PER</b> formance <b>Th</b> ermal <b>CO</b> atIngs for automo <b>TI</b> ve <b>AL</b> uminium applications)	electro and electroless plating chairs: F. Delaunois + S. Pane i Vidal	Keynote: Sudagar Jothi, VIT-AP University, Science of composite electroless coating process
	12h25-12h45		Francesco Andreatta, University of Udine, Polytechnic Department of Engineering and Architecture, Degradation of coatings employed in the food service industry				
<i>12h45-14h10</i>		<i>Lunch – exhibition and posters</i>					
14h10-15h30	14h10-14h30	functional coatings chairs: D. Schaubroeck + S. Rossi	David Schaubroeck, imec-Ugent Hermetic flexible polyimide/ALD barriers for medical microelectronic device packaging.	special topics chair: M.Gonon	Keynote: Ch. Jagadeeswara Rao, IGCAR Development of Ytria Coating on High Density Graphite for Pyrochemical Reprocessing Applications	electro and electroless plating chairs: F. Delaunois + V. Vitry	Ruben Offoiach, Polytechnic Department of Engineering and Architecture, University of Udine, Italy, On the microstructure and hardness of Ni matrix composite electrodeposits containing either micro- or nano- aluminium particles
	14h30-14h50		Marie-Eve Druart, University of Mons, Design of sol-gel mesoporous coatings for anti-fingerprint applications on glass				David Mercier, CRM Group, Microstructural and mechanical characterization of an electroplated nickel matrix composite coating
	14h50-15h10		Larissa Kutscha, Robert Bosch GmbH, Determination of influencing factors on adhesion and surface quality in UV-based in-mold coating process of BMC				Luiza Bonin, University of Mons, Properties of Electroless Nickel-Boron coatings stabilized by bismuth salts.
	15h10-15h30		Pierre Loison, Laboratoire des Sciences de l'Ingénieur pour l'Environnement (LaSIE), La Rochelle, France, Development of a new smart coating for steel protection				Haihan Luo, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, Shanghai, China, Study on 5-45µm Far Infrared Optical Filter
<i>15h30-16h20</i>		<i>Coffee break</i>					

16h20-17h	16h20-16h40	functional coatings chairs: D. Schaubroeck + S. Rossi	Stefano Rossi, Dep. of Industrial Engineering, University of Trento, Italy, Polysilazane layers with corrosion protection and anti-graffiti properties		electro and electroless plating chairs: F. Delaunais + V. Vitry	Christophe Brismalein, NEXANS, New oxidant-resistant deformable electrodeposited coating
	16h40-17h		Kosmas Ellinas NCSR Demokritos Plasma micro-nanotextured 3D surfaces and their applications			
17h30		Visit of Mons + Conference Dinner				

FRIDAY		Vésale La Fontaine		Vésale 030		Vésale 023	
9h-10h20	9h00-9h20	corrosion and corrosion protection chairs: M. Olivier + H. Terryn	Herman Terryn, Vrije Universiteit Brussel, How good can we model corrosion of metals: successes and bottlenecks	cold spray chairs: A. Astarita + M. Jeandin	Keynote: Sergi Dosta, Centre de Projection termica, Universitat de Barcelona, Understanding Cermet coatings obtained by Cold Gas Spray	Hydro/Oleo/Ice Phobic/philic surfaces chairs: T. Schutzius + A. Milionis	Keynote: David Quere, Ecole Polytechnique, Paris, Antifogging materials
	9h20-9h40		Leonardo Bertolucci Coelho, University of Mons, A SVET investigation on the corrosion inhibition of AA2024/graphite galvanic coupling		Georg Mauer, Forschungszentrum Jülich GmbH, IEK-1 Diagnostics of Cold Sprayed Particle Velocities Approaching Critical Deposition Conditions		Wilhelm Barthlott, Nees Institute for Biodiversity of Plants, University of Bonn, Biological surfaces for Biomimetic applications: Lotus- and Salvinia-Effect for biomimetic drag reduction and other innovations
	9h40-10h00		Delphine Veys-Renaux, Institut Jean Lamour, Protection of multiphase aluminium alloys by anodizing in sulfuric acid followed by sealing with a Cr3+/ZrF62- salts solution		Miguel Ángel Garrido, DIMME – Durability and Mechanical Integrity of Structural Materials, Escuela Superior de Ciencias Experimentales y Tecnología, Universidad Rey Juan Carlos, Madrid, Spain, Young's modulus and hardness evaluation of Ti-6Al-4V cold sprayed coatings by instrumented indentation tests		Nikos Kehagias, ICN2, Design of hierarchical surfaces for tuning wetting characteristics
	10h00-10h20		Fábio Santos, Institute of Chemistry – Univ. Estadual Paulista (UNESP), Corrosion protection of aluminium alloy by siloxane-PMMA hybrid coatings				
10h20--11h00		Coffee break					
11h-11h45		Plenary 3: Dr. Salvador Pané i Vidal (ETH Zürich - Switzerland): "Electrochemical processing technologies: a versatile approach for manufacturing micro- and nanomachines"					
11h45-13h05	11h45-12h05	corrosion and corrosion protection chairs: M. Olivier + H. Terryn	Alexis Renaud, University of Mons, Nanoporous alumina obtained by sulfo-tartaric anodizing and coated/sealed with benzoxazine thermoset resins for aluminium corrosion protection	cold spray chair: A. Astarita	Antonio Viscusi, Department of Chemical, Materials and Industrial Production Engineering, University of Naples Federico II, Naples, Italy, Long time cold spray deposition: experimental investigations and numerical approach	Hydro/Oleo/Ice Phobic/philic surfaces chairs: T. Schutzius + A. Milionis	Marina Makrygianni, presented by Athanasios Milionis, National Technical University of Athens, Drop-on-demand laser micro-printing of highly viscous adhesives and the role of substrate on improving the resolution
	12h05-12h25		Justine Rodriguez, Faculté Polytechnique, University of Mons, Efficiency of benzotriazole as a corrosion inhibitor for Zn-Mg coated steel in chloride solution		Dogukan Cetiner, Istanbul Technical University, A Study to Fabricate Bioactive TiO2 on the Surface of CoCr Alloy by the Combination of Cold Spray and Thermal Oxidation Processes		Nikolaos Vourdas, Technological Educational Institute of Sterea Ellada, An air-table for fluids: Gas replenishment in porous surfaces for mobility manipulation
	12h25-12h45		Yu Shi, National Institute of Applied Sciences of Lyon (INSA), Study of barrier effect of h-BN nanosheet charged zirconium oxide coating in long-term by electrochemical impedance spectroscopy		Paul Breuninger, University of Kaiserslautern, Manufacturing and characterization of particle structured 1.4571 surfaces with an adapted cold spray method		Ludmila Boinovich, A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Anti-icing potential of superhydrophobic coatings on metals: mechanisms of anti-icing behavior, methods of testing and performance at different weather conditions
	12h45-13h05		Sung Hwan Kim, Korea Advanced Institute of Science and Technology (KAIST), Performance of the surface-modified stainless steel 316LN in high temperature supercritical-carbon dioxide environment		Pedro Poza, Universidad Rey Juan Carlos, Madrid, Wear resistance of Cold Sprayed Al alloys for aeronautical repairs		Manish Tiwari Nanoengineered Systems Laboratory, UCL Mechanical Engineering, University College London, Robust superhydrophobic surfaces

13h05-14h20		Lunch – exhibition and posters						
14h20-16h20	14h20-14h40	surface modification of non-metallic materials chair: A. Marques	Keynote: François de Buyl, Dow Corning Europe, Silicone at the surface and interface of non-metals	Thermal spray chairs: A. Astarita + M. Gonon	Tomas Tesar, Institute of Plasma Physics of the Czech Academy of Sciences, Build-up mechanism of suspension plasma-sprayed coatings deposited by hybrid WSP-H torch	Hydro/Oleo/Ice Phobic/philic surfaces chairs: T. Schutzius + A. Millionis	Muhammad Tamoor Masood, Smart Materials, Istituto Italiano di Tecnologia, Genova, Italy, Analysis of wear abrasion resistance of multilayer recycled superhydrophobic high impact polystyrene (HIPS) nanocomposites	
	14h40-15h00				Karima Aoudia, Nogent International Center for CVD Innovation (NICCI), LRC CEA-ICD LASMIS, UTT Antenne de Nogent, pôle technologique de haute Champagne, Nogent, France. Effect of surface mechanical attrition treatment (SMAT) on the structure and mechanical behaviors of HVOF sprayed NiCrBSi coatings		Youssef Assaf, McGill University, Incorporation of titanium nanoparticles into femtosecond laser micromachined PET by ambient pressure femtosecond PLD	
	15h00-15h20				Mohammad Uddin, School of Engineering, University of South Australia, Australia, Enhancing the surface integrity of biodegradable AZ31B Mg alloys by deep ball burnishing		Zexin YU, Univ Bourgogne Franche Comte, CNRS, Lab ICB, UMR 6303, Site UTBM, Belfort, France, Effect of spray parameters on microstructures, phases and wettability performance of ZnO coatings via solution precursor plasma spray	Alexandre Emelyanenko, A. N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Electro-insulating performance of superhydrophobic coatings fabricated by femtosecond laser treatment
	15h20-15h40				Kryvutsa Nadzeya, Université catholique de Louvain, Functionalization of Graphene with Magnetic Nanoparticles		Sawsen Zouaghi, UMET-ISP, Antifouling silane-based coatings by plasma-assisted deposition for dairy products processing.	Thierry Czerwiec, Institut Jean Lamour, Evaporation of sessile water droplets and projected water droplets on polished and plasma treated austenitic stainless steel surfaces
	15h40-16h00				Ana C. Marques Instituto Superior Técnico, Universidade de Lisboa, Econea® modification of silica microscaffolds		Julian Andres Lenis Rodas, Universidad de Antioquia (Colombia), Microstructure and mechanical properties of hydroxyapatite thin films grown by RF magnetron sputtering	Gregory Marcos, Institut Jean Lamour, UMR 7198, CNRS-Université de Lorraine, Plasma-assisted nitriding treatment as a way to modify surface wettability of AISI 316 L and AISI 316 LM substrates
16h00-16h20		Coffee break						
16h20-17h00		Closing ceremony						

### poster teasers 1

C.M. Carmen María	ABREU
Kahina	AGGOUN
Pavel	BELKIN
Ludmila	BOINOVICH
María Julia	CRISTÓBAL
Nathalie	DE GEYTER

### posters teasers 2

Alexandre	EMELYANENKO
Jean Luc	GROSSEAU POUSSARD
Paweł	JARKA
Maity	KALIPADA
Sung Hwan	KIM
Łukasz	KRZEMIŃSKI

### poster teasers 3

Sergei	KUSMANOV
Irina	KUSMANOVA
Wiktor	MATYSIAK
Mohammed	MENDAS
David	MERCIER
Rino	MORENT

### poster teasers 4

Przemysław	SNOPIŃSKI
Mohammad	SOLTANI AYAN
Mariana Henriette	STAIA
Mariana Henriette	STAIA
Thu Thuy	THAI

### poster teasers 5

Manish	TIWARI
Jean-Francois	VANHUMBEECK
Delphine	VEYS-RENAUX
Nikolaos	VOURDAS

### poster teasers 6

Qin	WEI
Liang	WU
Ali	YAGHTIN
Ibrahim	ZIDANE

### Wednesday, July 5, 11h30-12h00, Vésale LaFontaine

Microstructure and corrosion behavior of surface layer composite obtained by friction stir processing (FSP) on aluminium alloy.

Characterisation and corrosion resistance of ceria/calcareous mixed coating on steel

Anodic plasma electrolytic borocarburing of low-carbon steel

Not simply repel water: the diversified nature of corrosion protection by superhydrophobic coatings

Effect of SiC and Al<sub>2</sub>O<sub>3</sub> particles on wear behavior of aluminium matrix composite processed by Friction Stir Processing (FSP) technique

Effects of plasma treatment on the surface chemistry, wettability, adsorbed proteins and cellular interactions of nanofibrous scaffolds

### Wednesday, July 5, 11h30-12h00, Vésale 030

Nanosecond laser micro and nanotexturing for the design of superhydrophobic coatings robust to long-term contact with water, corrosion active medium, cavitation, and abrasion

Stress release mechanisms in thermally grown oxide thin films obtained from in situ high temperature X-Ray diffraction

Study of photovoltaic cells with active layer consist of organic molecular compounds.

Investigation of machinability of stainless steel with cryo-treated pvd carbide inserts

Development of high performance catalyst support on metallic substrate for passive auto-catalytic recombiner application

Properties and application of porous carbon char coated with ceramics materials using sol-gel and ALD methods.

### Wednesday, July 5, 11h30-12h00, Vésale 023

Features of anodic plasma electrolytic polishing of medium carbon steel

Anodic plasma electrolytic nitrocarburing of Ti-6Al-4V alloy in carbamide and ammonium chloride electrolyte

Preparation and optical investigation of PVP/ZnO thin composite fibrous mats obtained by electrospinning method

Microindentation and microscratch tests contribution in the study of gray cast iron abrasive wear

Mechanical properties and decohesion of sol-gel coatings on metallic and glass substrates

Investigating the stability of plasma polymerized acrylic acid coatings

### Thursday July 6, 11h45-12h05, Vésale LaFontaine

Effect of the temperature and strain on structure and properties of two binary Al-Mg alloys

An Experimental Study on Skin Drag Reduction by Superhydrophobic Surfaces at Low Leidenfrost Temperatures

Corrosion performance of a bilayer ZrN/Mo<sub>2</sub>N PVD coating

Sliding wear resistance of thermal sprayed wc-12co coatings reinforced with carbon nanotubes

Compatibility between mesoporous sol-gel thin films and epoxy primers for corrosion protection of 2024 aluminum alloys substrates

### Thursday July 6, 11h45-12h05, Vésale 030

Metallic nanotextured surfaces for water jet impact resistance and anti-frost applications

Thermochemical treatments using electrochemical plasma: performances, challenges and perspectives

Micro-arc anodizing of aluminium in KOH-based electrolytes:

influence of silicates addition on growth mechanism and tribological properties

Corrosion protection of stainless steels used in condensing economizers

### Thursday July 6, 11h45-12h05, Vésale 023

Investigation of residual stresses in ni-based alloy gh4169 by shot peening: numerical simulation and experiments

Influence of Al<sup>3+</sup> concentration on morphology, structure and corrosion resistance of Mg-Al LDH films

The influence of different voltages on surface properties of coated titanium by plasma electrolytic oxidation (PEO) method

FE analysis of fluid-structure interaction in the hydromechanical deep drawing process