"Advancing to a competitive industrial transition through surface engineering solutions"













2-3 October, San Sebastián, Spain

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PRELIMINARY PROGRAM

Thursday, 2th October morning

8:00	REGISTRATION		
9:00	WORKSHOP PRESENTATION		
7.00	SESSION 1		
	Ramón Escobar Galindo (Universidad de Sevilla, Spain)		
	Sandra Carvalho (Universidade de Coimbra, Portugal)		
9:15	(INVITED) Victor Bellido, Gencoa Ltd, UK		
	Magnetron Sputtering, a brief review and current trends		
9:45	Klaus Böbel, Oerlikon, Germany		
7.75	HIPIMS Technology in Industrial Applications		
10:00	Mª de la Paz Cumia Espinosa de los Monteros, Nano4Energy, Spain		
	Scalable Magnetron Sputtering of GDC Interlayers for Long-Life SOCs		
10.15	Anastasia Dianova, Tecnalia, Spain		
10:15	HiPIMs tailored MoS2-Based Coatings for Enhanced Tribological		
10:30	Performance in Different Environments		
10.30	COFFEE & POSTERS		
11:15	COTTLE & LOSIERS		
11.10	SESSION 2		
	Marta Brizuela (Tecnalia, Spain)		
	Albano Cavaleiro (Universidade de Coimbra, Portugal)		
	Iñigo Braceras, TTTGroup / Tecnalia, Spain		
11:15	Plasma Nitriding of Hydrogen components to improve tribo-leak		
	properties		
	Oihane Hernández-Rodríguez, Tekniker, Spain		
11:30	Development of Hydrogen-Barrier Coatings via Magnetron		
	Sputtering for Compressors in Electrolyser Systems		
11:45	Gustavo Santos, CENTI, Portugal		
	PVD-Based development of LiFePO4 (LFP) Li-ion cathodes		
12:00	Marya Baloch, Asociación de la Industria Navarra, Spain		
12.00	Catalytic Engineered Surface Architectures for Green Hydrogen Production		
	Jordi Orrit-Prat, EURECAT, Spain		
12:15	Development and characterisation of protective surface treatments		
	and coatings for bipolar plates of PEM fuel cells and electrolysers		
12:30			
-	LUNCH & POSTERS		
13:30			









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Thursday, 2th October afternoon

SESSION 3		
Sandra Carvalho (Universidade de Coimbra, Portugal)		
Iñigo Braceras (Tecnalia, Spain)		
13:45	(INVITED) Christoph Schiffers, CemeCon, Germany	
	HiPIMS Coatings for Cutting Tools: Trends and Visions	
14:00	Eduardo Silva, Durit Coatings, Portugal	
	DRIVOLUTION Agenda - Creation of an innovative Factory of the	
	Future	
	Ricardo Alexandre, Inovatools, Portugal	
14:15	Wear behaviour and machining performance of TiNAg and	
	TiAl(Y/Ta)N Thin Films for cutting tools	
	Jorge Laranjeira, Moldit, Portugal	
14:30	Recyclable plastic components with high performance and low	
14:45	weight	
14.45	COFFEE & POSTERS	
15:15	COTTLE & POSILRS	
13.13	SESSION 4	
Sandra Carvalho (Universidade de Coimbra, Portugal)		
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15.15	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal	
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15:15 15:30	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications	
15:30	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal	
_	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing	
15:30	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal Exploratory routes for the Valorization of Critical Raw Materials in Laser Cladding	
15:30	Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal Exploratory routes for the Valorization of Critical Raw Materials in Laser Cladding Albano Cavaleiro. Instituto Pedro Nunes, Portugal	
15:30 15:45 16:00	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal Exploratory routes for the Valorization of Critical Raw Materials in Laser Cladding	
15:30	Iñigo Braceras (Tecnalia, Spain) Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal Exploratory routes for the Valorization of Critical Raw Materials in Laser Cladding Albano Cavaleiro. Instituto Pedro Nunes, Portugal Production of H ₂ using photovoltaic energy	
15:30 15:45 16:00	Armando Ferreira, Universidade do Minho, Portugal Multifunctional Thin Films for Sensing Applications Ana Sofia Ramos, Universidade de Coimbra, Portugal Surface Modifications by Laser Hardening, Nitriding and Carburizing Eduardo Silva, Durit Coatings, Portugal Exploratory routes for the Valorization of Critical Raw Materials in Laser Cladding Albano Cavaleiro. Instituto Pedro Nunes, Portugal	











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Thursday, 2th October afternoon (cont.)

	SESSION 4		
	Marta Brizuela (Tecnalia, Spain)		
	Ramón Escobar Galindo (Universidad de Sevilla, Spain)		
16:45	Eva García-Lecina, CIDETEC, Spain		
	Evaluating Electroless NiP Coatings as Hydrogen Permeation Barriers		
	Desiderio Diaz Garcia, Plasmatreat Iberia, Spain		
17:00	Plasma Driven Progress: Enabling the Industrial Transition through		
	Advanced Surface Engineering		
	Annika Mann, Fraunhofer Institute for Surfaces and Thin Films IST,		
17:15	Germany		
17.13	Adhesion control by thin films deposited by atmospheric pressure		
	plasma processes		
	Ricardo Serra, Universidade de Coimbra, Portugal		
17:30	Comparative study of sacrificial anode and imposed current		
	cathodic protection for sanitary water heat pump systems		
18:00			
-	VISIT TECNALIA		
19:00			
20:30	DINNER		

Bronze sponsors:















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Friday, 3rd October morning

8:30	REGISTRATION	
SESSION 5		
	Sandra Carvalho (Universidade de Coimbra, Portugal)	
	Iñigo Braceras (Tecnalia, Spain)	
9:30	(INVITED) Agustín R. González-Elipe, Instituto de Ciencia de	
	Materiales de Sevilla, Spain	
	Tailoring the porosity of thin films for alternative surface engineering applications	
10:00	Joao Costa, Intermolde, Portugal	
	Impact of Coating Materials and Manufacturing Innovations on Glass Moulding Industry	
	Carles Colominas, Flubetech, Spain	
10:15	Advanced PVD coatings: Architecture, nanostructure and industrial	
10.10	challenges in modern applications	
10:30	Mikel Garitano, Tekniker, Spain	
	Development of W/SiC multilayer films for fusion-related applications	
10:45		
-	COFFEE & POSTERS	
11:30	SESSION 6	
	Marta Brizuela (Tecnalia, Spain)	
	Ramón Escobar Galindo (Universidad de Sevilla, Spain)	
	Daniel Figueiredo, Palbit, Portugal	
11:30	Hybrid process strategies for advanced coating solutions in cutting	
	tools	
	Raül Bonet, EURECAT, Spain	
11:45	Design of an innovative cathodic arc source with high deposition	
	rate and low macroparticles generation	
12:00	Lara Maroto, Gencoa LtD, United Kingdom Arc sources for low defect coatings and high target utilisation	
	Ibon Azkona, Meta Estalki SL, Spain	
12:15	PVD based surface treatments for space applications	
	Fabio Ferreira, CEMMPRE, Portugal	
12:30	Development of Environmentally Friendly Tribological Systems for	
	Heavy Machinery Components	
12:45	FINAL REMARKS	
13:00	END	









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	POSTER SESSION
	(During coffee breaks and lunch)
P1	Jaume Caro, EURECAT, Spain Development and characterization of ultra-hard DLC coatings for high quality machining of high strength aluminium alloys
P2	Amaya Garcia-Casas, CIDETEC, Spain
	Boosting corrosion and chemical resistance of aluminum alloys with
	anaphoretic e-coatings
Р3	Maite Redín Azcona, Asociación de la Industria Navarra, Spain
	Incorporation of Mo and W for the enhancement of AlTiN layers by PVD
	Rodrigo Santos, i3N, Universidade de Aveiro, Portugal
P4	Surface Treatment by Laser Irradiation for Injection Moulding Efficiency
	Enhancement
	Yerila Rodríguez-Martínez, Tecnalia, Spain
P5	Advanced electrocatalytic surfaces for Anion Exchange Membrane
	Water Electrolysis fabricated via Magnetron Sputtering
P6	Ana Sofia Ramos, Universidade de Coimbra, Portugal
	Laser Hardening of P20+S Mold Steel
D.7	Todor Vuchkov, Instituto Pedro Nunes, Portugal
P7	Laboratory Evaluation of WS ₂ and DLC-Si-O Coatings Under Simulated
	Stamping Conditions Carles Patrage Institute Padra Nunes Partugal
P8	Carlos Patacas, Instituto Pedro Nunes, Portugal Cutting tools integrating a novel thin-film sensor for real-time
10	temperature monitoring
	José D. Castro, Universidade de Coimbra, Portugal
P9	MoS2/Ni nano architectural synergy for hydrogen production
	Sandra Carvalho, Universidade de Coimbra, Portugal
P10	Sustainable Structural Coloring of Polymers for Automotive Applications
D1	Iñigo Braceras, Tecnalia, Spain
P11	Hydrogen permeation barriers for treated steels prepared by HiPIMS
P12	Ramon Escobar-Galindo, Universidad de Sevilla, Spain
	Development of physical vapour deposition coatings for weathering
	protection of additive manufacturing polymer substrates
	Anastasia Dianova, Tecnalia, Spain
P13	Functional Coatings based on Barrier Layers and Conductive Metal
1 13	Spinels for Protection and Electrical Performance of Interconectors in
	Electrolysis Cells
P14	Filipe Fernandes, Polltecnico de Porto
	Wear Behavior and machining performance of TiNAg and TiAl(Y/Ta)N
	Thin Films for cutting tools
P15	Diogo Cavaleiro, Universidade de Coimbra, Portugal
	M2R PRR – Sustainable solutions for bike chains









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Workshop location:

TECNALIA

Parque Científico y Tecnológico de Gipuzkoa

Mikeletegi Pasealekua, 2

E-20009 Donostia-San Sebastián (Gipuzkoa), Spain

GPS coordinates: Lat = 43.286444 Lon = -1.985472

https://www.tecnalia.com/en/locations/donostia-san-sebastian-1-mikeletegi-pasealekua-2











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Workshop dinner:

Txirrita Sagardotegia

Calle San Bartolomé, 32,

E- 20007 Donostia – San Sebastián, Gipuzkoa

https://txirritasagardotegia.com/









