

Programme 18th June

8:30-9:15	Registration				Lobby A
Session A1	Opening and Keynote Lecture 1. Chair: Prof. Dr. María Dolores Bermúdez				Room 1
9:15-9:30	Opening: Scientific Committee and Collaborating Entities				
9:30-10:30	Keynote Lecture: Dr. Luis Fernández Ruiz-Morón (Repsol S.A.). "Tribology: key for fuel efficiency"				
10:30-11:00	Coffee break/Poster Sessions/Technical Exhibition				Lobby A & B
Session A2	Lubrication, lubricants and additives. Chair: Dr. Luis Fernández Ruiz-Morón	Room 1	Session B2	Friction and Wear. Chair: Prof. Dr. Jesús Rodríguez Pérez	Room 2
11:00-11:20	A2.1 "Assessment of low viscosity engine oils in terms of fuel consumption and engine wear in Heavy Duty Engines Fleet Test" Guillermo Miró Mezquita (Lub_01_Miro)		B2.1	"Tribological behaviour of silicon carbide/graphene nanoplatelets composites under dry sliding conditions" Javier Llorente Dueñas (Fri_01_Llorente)	
11:20-11:40	A2.2 "Mechanisms of Varnish Formation and Implications for the Use of Soluble Varnish Removal Technology" Matthew Hobbs (Lub_02_Hobbs)		B2.2	"Influence of the direction fiber on the tribological behavior of carbon-fiber reinforced epoxy composites manufactured by prepeg laminates" Juana Coello Sobrino (Fri_04_Coello)	
11:40-12:00	A2.3 "Improving wear performance of wind turbine gearboxes using ionic liquids as additives of lubricants" Patricia Iglesias Victoria (Lub_03_Iglesias)		B2.3	"Physical and tribological characterization of four commercial braking formulation materials" Pedro V. Antunes (Fri_05_Antunes)	
12:00-12:20	A2.4 "Molecular design of halogen free room-temperature ionic liquids for lubricants: Tetraalkylphosphonium alkylsulphonates" Catur Y. Respatiningsih (Lub_04_Minami)		B2.4	"Tribological behavior of functionalized 1-2 Layered graphene/UHMWPE composites" Jose Antonio Puértolas Raffles (Fri_06_Pascual)	
12:20-12:40	A2.5 "Power loss of FZG gears lubricated with wind turbine gear oil using ionic liquid additive" Carlos Fernandes (Lub_05_Seabra)		B2.5	"Wear behavior of cryogenically treated AISI 420 martensitic stainless steel" Germán Prieto (Fri_07_Prieto)	
12:40-13:00	A2.6 "Use of NTf2 anion-based ionic liquids in the formulation of gear oils" Alberto García Martínez (Lub_06_García)		B2.6	"Tribological study of the AISI316L/Sapphire contact with self-lubricating films of protic ionic liquids" Tulia Espinosa Rodríguez (Fri_08_Espinosa)	
13:00-15:00	Lunch (Restaurant Eszencia. El Batel)				
Session A3	Case Studies. Chair: Dr. Juan Carlos Sánchez López	Room 1	Session B3	Biotribology. Chair: Dr. Patricia Iglesias Victoria	Room 2
15:00-15:20	A3.1 "Efficiency prediction on a 2.5 MW wind turbine gearbox" Carlos Fernandes (Cas_02_Fernandes)		B3.1	"Abrasive and sliding wear of resin composites for dental restorations" José R. Gomes (Bio_02_Gomes)	
15:20-15:40	A3.2 "Influence of grease formulation on rolling bearings friction torque" Jorge H. O. Seabra (Cas_03_Goncalves)		B3.2	"Development of the microbiological population in water miscible metal working fluids" Benedikt Seidel (Bio_03_Seidel)	
15:40-16:00	A3.3 "Gear Scuffing: Power dissipation and mass temperature" Jorge Castro (Cas_04_Castro)		B3.3	"Friction of Human skin against different hospital fabrics" Luis M. Vilhena (Bio_04_Vilhena)	
16:00-16:20	A3.4 "Study on the wear and rolling contact fatigue behavior of rail steel grades by using a twin disc laboratory equipment" María Panera Castro (Cas_06_Panera)		B3.4	"Biofilm influence on the pair tribological wear tooth-zirconia" Carla María Carneiro Bio_05_Carneiro	
16:20-16:40	A3.5 "Analysis of valve and valve seat insert damage morphology observed after different engine tests" Alexander Zuleta Durango (Cas_05_Zuleta)		B3.5	"Tribological performance of skin equivalents and ex vivo human skin during sliding contact with artificial grass" Marina Morales Hurtado (Bio_01_Morales)	
16:40-17:10	Coffee break/Poster Sessions/Technical Exhibition				Lobby A & B
Session A4	Modelling and simulation/Characterization Techniques. Chair: Dr. Manuel Belmonte Cabanilla	Room 1	Session B4	Biotribology/Tribocorrosion. Chair: Prof. Dr. José R. Gomes	Room 2
17:10-17:30	A4.1 "Wear model for reciprocating ball-on-flat wear tests" Miguel Esteves (Mod_02_Esteves)		B4.1	"Evaluation of tribological properties of new Alumina/Zirconia Ceramics for dental restoration" Celio Figueiredo Pino (Bio_06_Figueiredo)	
17:30-17:50	A4.2 "Analysis of Temperature and Pressure Distribution on Deformable Short Lubricated Bearings" Luigi C. Greco (Mod_03_Greco)		B4.2	"Biotribology study for determining the influence of surface modification in PEEK and UHMWPE in the reduction of particles releasing for knee prosthesis application" Cristina Díaz Jiménez (Bio_07_Díaz)	
17:50-18:10	A4.3 "Study of creep function determination of two amorphous polymers by indentation technique" Miguel Ángel Garrido (Ctt_02_Garrido)		B4.3	"Wear and corrosion behaviour of CoCrMo biomedical alloy in presence of hydrogen peroxide" Anna Neus Igual Muñoz (Bio_08_Igual)	
18:10-18:30	A4.4 "ROLLING CONTACT FATIGUE STUDY OF RAILWAY RAILS" Pablo García Suarez (Ctt_03_García)		B4.4	"Tribocorrosion behaviour of mooring HSLA steel in synthetic seawater under bidirectional sliding" Ainara López (Tri_02_Lopez)	
18:30-19:00	Scientific Committee Meeting Ibertrib 2017				Room 2
19:00-20:00	Social Programme (Cartagena Puerto de Culturas Touristic Visit)				
20:30-23:00	Conference Dinner (Restaurant Eszencia. El Batel)				

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Session A5		Keynote Lecture 2. Chair: Prof. Dr. Jorge H. O. Seabra		Room 1
9:00-10:00		Prof. Dr. Nicholas Spencer (ETH Zürich). "Tribological and Mechanical Properties of Polymer Brushes and Brush-Gels"		
10:00-10:30		Coffee break/Poster Sessions/Technical Exhibition		Lobby A & B
Session A6 Tribocorrosion/Micro and Nanotribology. Chair: Prof. Dr. Anna Neus Igual Muñoz		Room 1	Session B6 Surface Engineering. Chair: Prof. Dr. Jorge H. O. Seabra	Room 2
10:30-10:50	A6.1	"The effect of engine oil aged in a HGV DI diesel engine operated by straight used cooking oils (SUCOs) on its physical and tribological performance" Chun Wang (Tri_01_Wang)	B6.1	"Tribological properties of plunging-type textured surfaces produced by modulation-assisted machining" Patricia Iglesias Victoria (Sur_01_Iglesias)
10:50-11:10	A6.2	"Mechanism of tribo-chemical reactions of ionic liquids on titanium alloys" Amaya Igartua (Tri_03_Igartua)	B6.2	"Tribological properties of TiC/a-C:H nanocomposite coatings prepared by HiPIMS" Juan Carlos Sánchez López (Sur_02_Sanchez)
11:10-11:30	A6.3	"Study of the isothermal oxidation treatments effect on the local wear behaviour of Inconel 625 coatings deposited by laser cladding" Davide Verdi (Micro_02_Verdi)	B6.3	"Wear and high temperature wear on MCrAl alloy on HVOF" Juan Vicente Miguel Guillem (Sur_03_Amigo)
11:30-11:50	A6.4	"Wear resistant in-situ carbon nanotubes/silicon nitride nanocomposites with a high loading of nanotubes" Manuel Belmonte Cabanillas (Micro_03_Belmonte)	B6.4	"Lubricious TiSi(V)N coatings for extreme temperature application deposited by Deep Oscillation Magnetron Sputtering (DOMS) mode" Filipe Fernandes (Sur_04_Fernandes)
11:50-12:10	A6.5	"Study of the abrasion resistance of new epoxy (ER) – ionic liquid (IL) materials with self-healing ability" Noelia Saurín Serrano (Micro_04_Saurin)	B6.5	"Effect of spinels on the mechanical and tribological behavior of plasma sprayed alumina based coatings" Alvaro Rico García (Sur_05_Rico)
12:10-12:30	A6.6		B6.6	"Tribosystems based on self-mated multilayer micro/nanocrystalline HFCVD diamond coatings: effects of humidity and temperature" Cristiano S. Abreu (Sur_06_Abreu)
12:30-13:00		Conference Closure and presentation of the IX Ibertrib Edition		Room 1
13:00-15:00		Lunch (Restaurant Eszencia. El Batel)		

Session P1 Friction and Wear		Poster Session		Session P2 Surface Engineering		Lobby B
P1.1	"The minimum quantity of lubricant technique in grinding of steel using a wheel cleaning system" Eduardo Carlos Bianchi (Fri_P01_Bianchi)	P2.1	"Laser deposition of alumina and carbon black on AISI 4340 steel" Getulio Vasconcelos (Sur_P01_Vasconcelos)			
P1.2	"Grinding of AISI 4340 steel when interrupted cutting by aluminum oxide grinding wheel" Hamilton Jose de Mello (Fri_P02_de_Mello)	P2.2	"High temperature tribological characterization of TiAl laser cladding coating on Ti6Al4V alloy" Juan Carlos Pereira (Sur_P02_Zambrano)			
P1.3	"Wear behaviour of ceramic composites for grinding wheel: Effect of sintering temperature" José R. Gomes (Fri_P03_Gomes)	P2.3	"Development of laser cladding MCrAlY coatings: high temperature friction and wear behavior" Juan Carlos Pereira (Sur_P03_Pereira)			
P1.4	"Abrasive wear mechanisms of gray cast iron. Application to cylinder bore abrasion" Luiz Alberto Franco (Fri_P04_Franco)	P2.4	"Biotribological behavior of anti-bacterial Ag-C coatings prepared by DC-pulsed magnetron sputtering" Juan Carlos Sánchez López (Sur_P04_Sanchez)			