

PROGRAM

| Monday, December 3, 2018 | | | |
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| | | 1 | 2 |
| 8h00 | 8h30 | Welcome and opening ceremony | |
| 8h30 | 9h00 | Session 1: Plenary lecture –Design of Catalytically Active Tribomaterials, Coatings, and Additives for More Effective Boundary Lubrication, <i>A. Erdemir</i> , Argonne National Laboratory, USA | |
| 9h00 | 9h30 | Moderator: J.D.B de Mello, Federal University of Uberlandia, Brazil | |
| 9h30 | 9h50 | Refreshments | |
| 9h50 | 10h50 | Poster Session A | |
| | | Session 2 Moderator: T. Cousseau | Session 3 Moderator: A.P.Tschiptchin |
| 10h50 | 11h10 | Invited: Towards Superlubricity under Mixed and Boundary Lubrication, <i>J.M. Martin</i> , École Central de Lyon, France | #115 Effect of bainite transformation on microstructure and wear resistance in a pearlitic rail steel, <i>H. Goldenstein</i> , G.Tressia, University of Sao Paulo, <i>M.Masoumi</i> , UFABC, <i>A. Sinatora</i> , Instituto Tecnológico Vale, Brazil |
| 11h10 | 11h30 | | #16 Improvement in abrasion resistance by adding Nb in Fe-Cr-C alloys, <i>A.R. Costa</i> , <i>T.G. Oliveira</i> , <i>R.C.P. da Silva</i> , Federal University of Ouro Preto, Brazil |
| 11h30 | 11h50 | #36 Self-sustained superlubricity of glycerol in a steel/ta-C contact, <i>L. Yun</i> , <i>M.I. de Barros Bouchet</i> , École Centrale de Lyon, France | #105 Effect of both the interactions between scratches and the asperity attack angle on friction in an iron ore rock, <i>R.V. Magnol</i> , <i>M.C.S. de Macêdo</i> , <i>C. Scandian</i> , Federal University of Espirito Santo, Brazil, <i>M.Q. Macedo</i> , Geosol, Brazil |
| 11h50 | 12h10 | #35 Lubricant oils for energy efficiency improvement and their evaluation in engine tests, <i>E.D. Trindade</i> , <i>E.S.M. Neto</i> , Petrobras, <i>A. Sinatora</i> , University of São Paulo, Brazil | #117 Microstructure and wear mechanisms of WC-Co studs used in high pressure grinding rolls, <i>J.J. Penagos</i> , <i>E.M. Bortolletto</i> , <i>G. Tressia</i> , <i>G. Bueno</i> , <i>R.D. Subtil</i> , <i>A. Sinatora</i> , Instituto Tecnológico Vale, Brazil |
| 12h10 | 12h30 | #132 Tribology as a tool for the evaluation of the energy efficiency of lubricant during its use, <i>B.D.C.F. dos Santos</i> , <i>H.P. Peixoto</i> , <i>B.V.R. Assis</i> , <i>P.F.O. Barreto</i> , <i>A.P.F. Santos</i> , <i>D.C. Spadari</i> , Iconic Lubrificantes, Brazil | #131 The sliding wear behavior of Carbodic Austempered Ductile Iron, <i>D.I. Pedro</i> , <i>R.C. Dommarco</i> , <i>Gentili</i> , <i>M.</i> , Universidad Nacional de Mar del Plata, Argentina |
| 12h30 | 14h | Lunch | |
| 14h | 14h30 | Session 4: Plenary lecture – Mechanochemistry in Tribology, <i>H. Spikes</i> , Tribology Group, Imperial College London, UK | |
| 14h30 | 15h | Moderator: H. L. Costa | |
| | | Session 5 Moderator: L. Vieira | Session 6 Moderator: W. M. da Silva Jr. |
| 15h | 15h20 | #104 Effects of lubricants and additives on friction in highly-loaded DLC contacts, <i>E. Maier</i> , <i>T. Lohner</i> , <i>K. Stahl</i> , University of Munich, <i>M. Thiex</i> , <i>C. Kalscheuer</i> , <i>T. Brögelmann</i> , <i>K. Bobzin</i> , RWTH Aachen University, Germany | #91 Microabrasion resistance of laser clad cobalt-based alloy coatings, <i>F.D. Ramos</i> , <i>A.C. Bozzi</i> , Federal University of Espirito Santo, Brazil |
| 15h20 | 15h40 | #69 Wear behavior of DLC films deposited by plasma enhanced techniques, <i>T.K. Neves</i> , <i>R.D. Torres</i> , Universidade Católica do Paraná, <i>G. B. de Souza</i> , University of Ponta Grossa, <i>C.M. Lepienski</i> , UTFPR, Brazil, <i>J.L. Lin</i> , <i>R. Wei</i> , Southwest Research Institute, USA | #28 Influence of the nature of the counter-body on micro-abrasion, <i>M.A.N. Ardila</i> , <i>H.L. Costa</i> , <i>J.D.B. de Mello</i> , Federal University of Uberlandia, Brazil |
| 15h40 | 16h | #11 The nature of atomic-scale friction damping in a-C:D/H thin films, <i>C.A. Figueroa</i> , <i>F. Echeverigaray</i> , <i>S. R. S. de Mello</i> , <i>A. F. Michels</i> , University of Caxias do Sul, <i>Fernando Alvarez</i> , University of Campinas, Brazil | #122 Micro abrasive wear: a novel approach on the movement of hard particles in the contact, <i>P.J. Esteves</i> , <i>R.M. Souza</i> , University of Sao Paulo, <i>M.C.S. de Macêdo</i> , <i>C. Scandian</i> , Federal University of Espirito Santo, Brazil |
| 16h | 16h30 | Refreshments | |
| | | Session 7 Moderator: C. A. Figueroa | Session 8 Moderator: A. N. Klein |
| 16h30 | 16h50 | #97 In Situ Fluorination of DLC-Stainless Steel | #93 Tribological evaluation of turbostratic 2D |

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| | | Tribopairs, G.B. Santos , <i>Diego Berti Salvaro</i> , <i>C. Binder</i> , <i>A.N. Klein</i> , Federal University of Santa Catarina, R. Binder, Whirlpool S/A – Embraco, Brazil | graphite powders as oil additive, H.W.J. Dias , <i>A.B. Medeiros</i> , <i>J.B.R. Neto</i> , <i>C. Binder</i> , <i>A.N. Klein</i> , Federal University of Santa Catarina, Brazil |
| 16h50 | 17h10 | #130 Flexible diamond-like carbon coating on O-ring to prevent leak air in space orbit, L. Vieira , <i>T.B. Santos</i> , <i>M.A.R. Ramos</i> , UNIVAP, N.K.Fukumasu, University of São Paulo, Brazil | #70 Effect of the superparamagnetic iron oxide nanoparticles size on tribological performance of mineral oil, M.N.L. Santos , <i>R.M. Souza</i> , University of Sao Paulo, <i>S.M. Alves</i> , Federal University of Rio Grande do Norte, Brazil |
| 17h10 | 17h30 | #12 Friction and Wear of Self-Mated Single-Walled Carbon Nanotube Forests at the Nanoscale: A Molecular Dynamics Approach, C.S. Abreu , <i>J.R. Gomes</i> , University of Minho, Portugal | #88 Lipophilic magnetite nanoparticles coated with stearic acid: A potential green and low cost way to improve thermal stability and tribological properties of lubricant oils, T. Cousseau , <i>A. Zuin</i> , UTFPR, <i>A. Sinatora</i> , ITV, <i>H.E. Toma</i> , University of São Paulo, Brazil |
| 17h30 | 17h50 | #128 Tribomechanical studies on a-C:H multilayer coatings deposited on Ti-6Al-4V, P.A. Radi , <i>D.A.P. Reis</i> , UNIFESP, <i>K.C.F. Nass</i> , <i>E.J. Corat</i> , <i>V.J.T. Airoldi</i> , INPE, Brazil | #30 Sputtering based synthesis of nanolubricants and their tribological behavior, S.M. Alves , <i>M. F. Trajano</i> , Federal University of Rio Grande do Norte, Brazil |
| 17h50 | 18h10 | #27 Molecular Dynamics Simulations of an Organic Fluid Confined Between Oxide Surfaces, M.G.V. Cuppari , Federal University of ABC, Brazil | #65 Velocity dependence of friction in graphene, F. Ptak , <i>R. Prioli</i> , PUC-Rio, <i>C. M. Almeida</i> , Inmetro |
| 18h30 | 21h | Welcome Reception – Sponsored by Geobit | |

| Tuesday, December 4, 2018 | | | |
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| | | 1 | 2 |
| 8h00 | 8h30 | Session 9: Plenary lecture – Biotribology: how nature does it, <i>J. Klein</i> , Weizmann Institute, Israel | |
| 8h30 | 9h00 | Moderator: G. Pintaúde | |
| 9h00 | 9h30 | Refreshments | |
| 9h30 | 10h30 | Poster Session B | |
| | | Session 10 Moderator: S.M. Alves | Session 11 Moderator: H. Goldenstein |
| 10h30 | 10h50 | Invited: Friction reduction efficiency of Mo-based additives: Booster effect of fatty amines, <i>M.I. de Barros Bouchet</i> , Ecole Centrale de Lyon, France | Invited: Submicron scale experimental and theoretical investigation of the multi-asperity contacts for real engineering surfaces with various topographic and material properties, <i>M. Kalin</i> , University of Ljubljana, Slovenia |
| 10h50 | 11h10 | | |
| 11h10 | 11h30 | #126 Interaction of dispersants with anti-wear and friction modifiers in contacts representative of piston-ring liner interface, J. Umer , <i>N. Morris</i> , <i>R. Rahmani</i> , <i>H. Rahnejat</i> , Loughborough University, <i>S. Balakrishnan</i> , Castrol Technology Centre, UK | #8 Effect of polishing load on roughness, surface porosity and material removal rate of engineering ceramics (Al ₂ O ₃ , ZTA and SiC), N.F. Strey , <i>C. Scandian</i> , Federal University of Espirito Santo, Brazil |
| 11h30 | 11h50 | #127 Lubricant base stock-surface interaction, M. Forder , <i>J. Umer</i> , <i>N. Morris</i> , <i>P. King</i> , <i>H. Rahnejat</i> , Loughborough University, <i>S. Howell-Smith</i> , Capricorn Automotive, UK | #129 Optical Interferometry for Wear Analysis, T. Cousseau , <i>A.G. Passos</i> , UTFPR, Brazil |
| 11h50 | 12h10 | #4 On the mechanism of footwear-versus-walking surface friction, K.G. Budinski , <i>S.T. Budinski</i> , Bud Labs, USA | #120 Wear mechanisms in cold forming, A.F. Tavares , <i>H.L. Costa</i> , <i>E.A. Mesquita</i> , FURG, <i>A.P.O. Lopes</i> , <i>D.T. de Almeida</i> , <i>J.H.C. de Souza</i> , Bruning Tecnometal, Brazil |
| 12h10 | 12h30 | #19 Mechanism and mechanics of 'synovial' fluid starvation at knee joint, P. Tomar , IGD TUW | #82 Studies of Fe-C composites prepared with SiC polytypes 3C-SiC/6H-SiC, <i>G.O. Neves</i> , T. Bendo , <i>G. Hammes</i> , <i>C. Binder</i> , <i>J.D.B. de Mello</i> , <i>A.N. Klein</i> , Federal University of Santa Catarina, Brazil |
| 12h30 | 14h | Lunch | |
| 14h | 14h30 | Session 12: Plenary lecture – Making Sense of Used Oil Analysis in Today's Heavy Duty Engine Oil Field Trails, <i>G. Croce</i> , Chevron Products Co., STLE President | |
| 14h30 | 15h | Moderator: E. Tomanik | |
| | | Session 13 Moderator: H.L. Costa | Session 14 Moderator: I. F. Machado |
| 15h | 15h20 | #101 Ethanol fuel dilution on lubricants containing | #74 Superimposition of Microindentations in |

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| | | MODTC, J.S.R.Acero , University of Sao Paulo, G.Siebert , Tupy, T. Cousseau , UTFPR, A. Sinatora , ITV, Brazil | Brittle Materials, W.M. Silva Jr. , V.C. Telles , S.A.G. Oliveira , Federal University of Uberlandia, Brazil |
| 15h20 | 15h40 | #37 Impact of ethanol on lubricant additive performance at piston ring-cylinder interface, J. Crepaldi Jr. , C.C. Galvão , H.Fujita , Idemitsu, E. Tomanik , R.Balarini , R.M. Souza , University of São Paulo, J.L. do Vale , UTFPR, Brazil | #42 Influence of thermal fatigue cracks on the abrasion wear of two-phase steels, N.K. Fukumasu , V. Seriacopi , I.F. Machado , R.M. Souza . University of Sao Paulo, A.P.V. Braga , IPT, Brazil |
| 15h40 | 16h | #121 Use of Xanes to investigate the effects of ethanol contamination on ZDDP tribofilms, K. Evangelista , L.C. Coelho , F. Kessler , H.L. Costa , FURG, Brazil | #39 Damage around a spherical inclusion in Rolling Contact using Semi-Analytical Method, T. Beyer , T. Chaise , F. Sadeghi , D. Nélias , INSA-Lyon, J.Leroux , Safran Aircraft Engines, France |
| 16h | 16h30 | Refreshments | |
| | | Session 15 Moderator: C. S. Abreu | Session 16 Moderator: N. Fukumasu |
| 16h30 | 16h50 | #26 Energetic coefficient of friction applied to cylinder liners lab tests, G. Pintaude , J.L. do Vale , C.H. Silva , UTFPR, Brazil | #51 Finite element evaluation of specific energy and material removal during micro-scratch tests of a steel sample, V. Seriacopi , Newton K. Fukumasu , R.M. Souza , I.F. Machado , University of Sao Paulo, Brazil |
| 16h50 | 17h10 | #22 Frictional behavior of soft Bi ₂ S ₃ coatings under different load and humidity conditions, G. Prieto , B.A. Pilotti , M. Dennehy , G.Z. Ruggiero , W.R. Tuckart , Universidad Nacional del Sur, C. Müller , IFISUR, Argentina, E. Broitman , SKF, The Netherlands. | #107 CFD-Simulations on the Influence of Nozzle Position and Spray Direction in Injection-Lubricated Gearboxes, T.Lohner , H. Liu , K. Stahl , University of Munich, L. Hildebrand , Technical University of Munich, Germany |
| 17h10 | 17h30 | #61 Evaluation of surface enrichment in self-lubricating samples submitted to different thermal treatments, K.V.S. Damin , Lucena , A.C. Tasiar , G. R. , T. Bendo , C. Binder , A.N. Klein , Federal University of Santa Catarina, Brazil | #83 On the necessary condition to produce ductile-mode cutting regime during abrasive machining processes, M.C. Romero , C. Scandian , Federal University of Espirito Santo, Brazil, M. El Mansori , Arts et Métiers ParisTech, France |
| 17h30 | 17h50 | #66 Friction coefficient in reciprocating tests: What is actually delivered by the tribometer, I.S. Tertuliano , D.A.Z. Durango , L.A. Franco , University of Sao Paulo, Brazil, A. Sinatora , ITV, Brazil | #96 Influence of microstructure and WC particle size distribution on the wear resistance of WC/Co hardmetals based on Scratch Tests, E.M. Bortoleto , E. M. Bortolotto , G. Tressia , A. Sinatora , J.J. Penagos , ITV, Brazil |
| 17h50 | 18h10 | #109 Tribological characterization of flex-fuel engine valve materials, V.R. Dyonisio , D.A.Z. Durango , C.R. Marcondes , R.M. Souza , University of Sao Paulo, Brazil | #87 Scratch resistance of compacted graphite iron submitted to plasma nitriding and laser hardening surface treatments, G. Pintaude , V. Writzl , P.C. Borges , UTFPR, M.S.F. de Lima , Institute for Advanced Studies, CTA, W.L. Guesser , Tupy, Brazil |
| 18h30 | 21h | Conference dinner – Sponsored by Bruker | |

| Wednesday, December 5, 2018 | | | |
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| 8h00 | 8h30 | Session 17: Plenary lecture – Insights from tribology for advanced manufacturing, M. El Mansori , Arts et Métiers Paristech, France | |
| 8h30 | 9h00 | Moderator: R.M. Souza | |
| 9h00 | 9h30 | Refreshments | |
| 9h30 | 10h30 | Poster Session C | |
| | | Session 18 Moderator: F. Profito | Session 19 Moderator: M. Benegra |
| 10h30 | 10h50 | Invited: Surface texturing revisited - a look beyond topographical design for tribological applications C.Gachot , TU Wien, Austria | |
| 10h50 | 11h10 | Invited: Rolling bearing tribology, G. Doll , The University of Akron, USA | |
| 11h10 | 11h30 | #53 Friction and wear of lubricated contacts textured by MECT, T.A. Rodrigues , G.C. Alcarria , H.L. Costa , W.M. da Silva Jr. , Federal University of Uberlândia, Brazil | #125 Effect of coating on transmissions efficiency, E. Humphrey , V. Elisaus , N. Morris , R. Rahmani , M. Mohammad-Pour , S. Theodossiadis , Loughborough University, UK |
| 11h30 | 11h50 | #55 Effect of surface texture on the tribological performance of a fully-formulated engine oil, I.S. Tertuliano , F.J. Profito , I.F. Machado , University of Sao | #31 Tribological performance of Ti:MoS ₂ coating under high pressure contact fatigue tests, N.K. Fukumasu , R.M. Souza , I.F. Machado , University |

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| | | Paulo, Brazil, <i>T. Cousseau</i> , Universidade Tecnológica Federal do Paraná, <i>A. Sinatora</i> , Instituto Tecnológico Vale, Brazil | of Sao Paulo, Brazil, <i>G.A.A. Machado</i> , Fiat Chrysler Automobile, Brazil, <i>H. Qin</i> , <i>G. Doll</i> , The University of Akron, USA |
| 11h50 | 12h10 | #52 Tribological behavior of alternative surface modifications to use in cold rolling mill rolls, J.L. Gonçalves Jr. , <i>J.D.B. de Mello</i> , <i>H.L. Costa</i> , Federal University of Uberlândia, Brazil | #102 Rolling bearing power loss rig, B.K. Borges , <i>T. Cousseau</i> , Universidade Tecnológica Federal do Paraná, Brazil |
| 12h10 | 12h30 | #85 The Effect of Adhesion and Roughness on the Friction Hysteresis Loops, M. Bazrafshan , <i>M.B. de Rooij</i> , <i>D.J. Schipper</i> , University of Twente, Netherlands | #77 Evaluation of Wear Track Width in a Ball on Flat RCF Test Rig, L.B. Cavalcanti , <i>B.P. Ferrer</i> , <i>A. Zuin</i> , <i>T. Cousseau</i> , <i>J.C.K. Neves</i> , Universidade Tecnológica Federal do Paraná, Brazil |
| 12h30 | 14h | Lunch | |
| 14h | 14h30 | Session 20: Plenary lecture – Influence of surface texturing and type of material on hydrodynamic sliding bearing performance, <i>M. Fillon</i> , InstitutPprime, CNRS - Université de Poitiers, France Moderator: C. Scandian | |
| 14h30 | 15h | | |
| | | Session 21 Moderator: C. Scandian | Session 22 Moderator: J.C.K. Neves |
| 15h | 15h20 | #18 Abrasiveness of mining slurries: influence of the morphology, concentration of slurries, mean grain size and nature of the abrasive particles, <i>V.E. Moreira</i> , <i>F.C. Silva</i> , <i>V. M. Quintão</i> , <i>F. Siqueira</i> , A.R. Costa , Federal University of Ouro Preto, Brazil, <i>F. Kaelber</i> , <i>S. Meinhold</i> , Reutlingen University, Germany, <i>J. Schenk</i> , University of Leoben, Austria | #59 Wear resistance of different plasma nitrided compound layers obtained using a hollow cathode sensitive geometry, T.S. Lamim , <i>D. Salvaro</i> , <i>R.O. Giacomelli</i> , <i>C. Binder</i> , <i>A.N. Klein</i> , Universidade Federal de Santa Catarina, <i>R. Binder</i> , Whirlpool S/A - Unidade Embraco, <i>J.D.B. de Mello</i> , Federal University of Uberlândia, Brazil |
| 15h20 | 15h40 | #25 Erosive wear study of AISI 201LN stainless steel: a comparison with AISI 304 and AISI 410 stainless steels, A.P.M.O. Machado , <i>M. Houmard</i> , <i>C. Godoy</i> , Federal University of Minas Gerais, <i>W.S. Labiapari</i> , Aperam South America, Brazil | #124 Tribological behavior of plasma nitrided ferritic-martensitic stainless steel, <i>M.T. Umemura</i> , L.B.V. Jimenez , <i>A.P. Tschiptschin</i> , University of Sao Paulo, <i>C.E. Pinedo</i> , Heat Tech Heat Treatment and Surface Treatment Technologies, <i>R.C. Cozza</i> , FEI, Brazil |
| 15h40 | 16h | #116 Cavitation erosion resistance of a Co-Cr alloy: comparison between mechanical and thermochemical treatments, <i>J.L. Barbarioli</i> , M.C. Romero , <i>C. Scandian</i> , Federal University of Espirito Santo, <i>A.P. Tschiptschin</i> , University of Sao Paulo, Brazil | #81 Surface Mo-enrichment and plasma carburizing on sintered iron microstructure and tribological properties, T. Bendo , <i>D. Salvaro</i> , <i>C. Binder</i> , <i>M.L. Hermann</i> , <i>A.N. Klein</i> , Universidade Federal de Santa Catarina, <i>J.D.B. de Mello</i> , Federal University of Uberlândia, Brazil |
| 16h | 16h20 | Closure Ceremony | |
| 16h20 | 16h50 | Refreshments | |

Poster sessions

Monday, December 3, 2018

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| #106 EFFECT OF HEAT INPUT ON TRIBOCORROSION OF GMAW INCONEL 625 DEPOSITS ONTO CARBON STEEL, K. R. C. Juste , Surface Engineering SENAI Institute, <i>D. Souza, H. L. Costa</i> , FURG. <i>A.G. Osório</i> , UFPel, Brazil |
| #110 THE EFFECT OF LOW-TEMPERATURE PLASMA NITRIDING ON THE SYNERGISM BETWEEN WEAR AND CORROSION OF SAF 2205 DUPLEX STAINLESS STEEL, M. Mafra , <i>Y.E.R. Nunez, R.E.E. Morales, G. Pintaude, P.C. Borges</i> , UTFPR, Brazil |
| #92 EVALUATION OF SLIDING WEAR IN A MARTENSITIC LAYER OF HIGH NITROGEN OBTAINED BY THE SHPTN PROCESS OF THE AISI 409 STEEL, E.M. Berton , <i>A.C. Rovani, G. Pintaude, P.C. Borges, T. Cousseau, J.C.K. das Neves</i> , UTFPR, Brazil |
| #94 ABRASION RESISTANCE OF NI-CR-B-SI COATING DEPOSITED BY LASER CLADDING PROCESS, J.M.S. de Sousa , <i>F. Ratusznei, M.Pereira</i> , Federal University of Santa Catarina, <i>R.M. Castro, E.I.M. Curi</i> , SATC, Brazil |
| #84 CORROSION AND WEAR BEHAVIOR OF 303 AUSTENITIC STAINLESS STEEL NITRIDED AT DIFFERENT CONDITIONS USING DC PLASMA, Marjorie Benegra , UTFPR, Brazil, <i>Y. Gao, X. Li, H. Dong</i> , University of Birmingham, UK |
| #56 WEAR AND FRICTION EVALUATION OF CVD DIAMOND MULTILAYERED COATING IN DRILLING MUD LUBRICATED TESTS, M.M. Maru , <i>V.Kapps, G.Pérez, E.H.M. Ferreira, A.Kuznetsov, C.A.Achete</i> , Inmetro, Brazil, <i>R.F. Silva</i> , University of Aveiro, Portugal |
| #33 SLIDING WEAR OF TIN COATED ION NITRIDED SAE 4140 STEEL, A.D. Mandri , <i>S.P. Brühl, R.C.Dommarco</i> , Universidad Nacional de Mar del Plata, Argentina |
| #41 WEAR BEHAVIOR OF TIALN COATED AUSTEMPERED DUCTILE IRON, A.D. Mandri , <i>D.A. Colombo, J.M. Massone, R.C. Dommarco</i> , Universidad Nacional de Mar del Plata, Argentina |
| #20 HASTELLOY C276 COATINGS BY LASER CLADDING: MICROSTRUCTURE AND MICRO-ABRASIVE WEAR RESISTANCE, A. Pizzato , <i>L.E.H.S. Rivero, R.M.G. Paes, A.Scheid</i> , Federal University of Paraná, <i>N.W.Dreveck, M.F. Teixeira</i> , SENAI Innovation Institute, Brazil |
| #21 STELLITE #6 COATINGS BY PLASMA TRANSFERRED ARC: MICROSTRUCTURE AND MICRO-ABRASIVE WEAR RESISTANCE, A. Pizzato , <i>L.E.H.S. Rivero, R.M.G. Paes, L.F. Cassel, A. Scheid</i> , Federal University of Paraná, Brazil |
| #99 ABRASION RESISTANCE OF INCONEL 625 DEPOSITS VIA PENDULAR SCRATCH TESTS, R.A. Carvalho , <i>H.L. Costa</i> , FURG, Brazil |
| #63 EVALUATION OF THE TRIBOLOGICAL BEHAVIOR OF INCONEL 625 CLADDING, J.L. Gonçalves Jr. , <i>D.F. Filho</i> , Federal University of Goiás, <i>D.Souza</i> , FURG, <i>M.M. Oliveira Jr., W.M. Silva</i> , Federal University of Uberlândia, Brazil |
| #90 MICROABRASION TESTS OF PLASMA NITRIDED Co30Cr19Fe SUPERALLOY, C.S.V. Martineli , <i>L.B. Vieira, F.D. Ramos, A.R. Franco Jr., A.C. Bozzi</i> , Federal University of Espírito Santo, Brazil |
| #44 INFLUENCE OF THE SUBSTRATE AND TEMPERATURE IN THE TRIBOLOGICAL PROPERTIES OF THE INTERMETALLIC Ni-Al, M.C.S. de Oliveira , <i>A.S.C.M. D'Oliveira, S.L. Henke</i> , Federal University of Paraná, Brazil |
| #86 WEAR CHARACTERIZATION OF HOT FORGING PUNCHES COATED WITH WC-CoCr AND Cr3C2-NiCr applied by high velocity oxygen fuel (HVOF), L.F. Oliveira , <i>A.S. Rocha, A.S. Marques, G.R. dos Santos</i> , Federal University of Rio Grande do Sul, Brazil |
| #108 METALLURGICAL AND TRIBOLOGICAL ASPECTS FOR SQUAT FORMATION IN THE HAZ EDGES OF RAILS WELDED USING ALUMINOTHERMY, L.H.D. Alves , <i>T. Tepedino</i> , Federal University of Juiz de Fora, <i>M. Masoumi, H. Goldenstein</i> , University of São Paulo, <i>G. Tressia, ITV</i> , Brazil |

Tuesday, December 4, 2018

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| #100 EFFECTS OF NANOCELLULOSE-REINFORCEMENT ON SURFACE PROPERTIES OF WOOD PANELS. H.L. Costa , <i>R.R. Morais Jr.</i> , FURG, <i>E.S. Ferrerira, G.V. Cardoso</i> , UFPel, Brazil |
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