

## ASST 2012 - POSTERS PROGRAMME:

POSTER NUMBER	ABSTRACT TITLE
P <sub>1</sub>	<b>Continuum Environmentally Friendly Anodizing Process on Aluminum Laminates</b> - <u>A. Amitrano</u> , M. Formisano, M. Montuori, T. Monetta, F. Bellucci, <i>University of Naples Federico II, P.le Tecchio 80, 80125 Naples Italy</i> ; C. Sinagra, T. Acconcia, <i>Laminazione Sottile spa, San Marco Evangelista, Caserta, Italy</i> .
P <sub>2</sub>	<b>Mechanical Characterization of Low Pressure Cold-Sprayed Metal Coatings on Aluminium</b> - <u>A. Astarita</u> , M. Durante, A. Langella, M. Montuori, A. Squillace, F. Bellucci, <i>University of Naples Federico II, Department of Materials and Production Engineering, P.le Tecchio 80, 80125 Naples, Italy</i> .
P <sub>3</sub>	<b>Critical Technological Issues of Friction Stir Welding Lap Joints of Dissimilar Aluminum Alloys</b> - <u>A. Astarita</u> , A. Squillace, S. Ciliberto, U. Prisco, M. Montuori and F. Bellucci, <i>University of Naples Federico II, Department of Materials and Production Engineering, P.le Tecchio 80, 80125 Naples, Italy</i> .
P <sub>4</sub>	<b>Post Welding Heat Treatment Influence on Corrosion Behavior of AA 2024 FSW Butt Joints</b> - A. Astarita, A. Squillace, M. Montuori, <u>C. Bitondo</u> , T. Monetta and F. Bellucci, <i>University of Naples Federico II, Department of Materials &amp; Production Engineering, P.le Tecchio 80, 80125 Naples, Italy</i>
P <sub>5</sub>	<b>Corrosion behaviour of Extruded AA 6005A: Case History</b> - C. Bitondo, <u>M. Montuori</u> , T. Monetta and F. Bellucci, <i>University of Naples "Federico II", Department of Materials &amp; Production Engineering, P.le Tecchio 80, 80125 Naples, Italy</i> .
P <sub>6</sub>	<b>Quasi-Static and Dynamic Loading Responses of Metal Foam Structures</b> - L. Carrino, M. Durante, <u>S. Ciliberto</u> , V. Paradiso, M. Ignarra, U. Mercurio, <i>University of Napoli Federico II, Department of Materials and Production Engineering, P.le Tecchio 80, 80125 Napoli, Italy</i> .
P <sub>7</sub>	<b>Application of Electrochemical Noise Analysis to Corroding Aluminum Alloys</b> - M. Curioni, R.A. Cottis and G.E. Thompson, <i>Corrosion and Protection Centre, School of Materials, The University of Manchester, M13 9PL, England, UK</i> .
P <sub>8</sub>	<b>The impact of glycerol addition to the glycol- water solution on the corrosion behaviour of alloy AK-64 in terms of heat-transfer</b> - B. Dytkowicz, M. Grobelny, M. Kalisz, D. Rudnik, <i>Motor Transport Institute - Department Center of Material Testing and Mechtronic, Warsaw, Poland</i> .
P <sub>9</sub>	<b>Surface damage of stainless steel EN3358 subject to friction, impulsive acceleration and corrosive environment</b> - F. Felli, A. Brotzu, C. Vendittozzi, <i>D.I.C.M.A. - Sapienza Rome University, Via Eudossina 18, 00184 Rome Italy</i> ; A. Paolozzi, <i>D.I.A.E.E. - Sapienza Rome University, Via Eudossina 18, 00184 Rome, Italy</i> ; F. Passeggio, L. Caputo, G. Caputo, S. Gaeta, <i>OMPM S.R.L., Via Fontana 5, 84012 Angri (Sa), Italy</i> .

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P <sub>10</sub>	<b>Using LEIS to Study the Corrosion of Al/Cu Model Electrodes</b> - J. Ferrari, H. G. de Melo, <i>Chemical Engineer Department of the University of São Paulo, CP 61548, CEP 05424-970, Brazil</i> ; N. Pébère, <i>CIRIMAT, UMR CNRS 5085, ENSIACET, 31077 Toulouse cedex 4, France</i> ; B. Tribollet, V. Vivier, <i>LISE, UPR 15 du CNRS, CP 133, 4 Place Jussieu, 75252 Paris cedex 05, France</i> .
P <sub>11</sub>	<b>Corrosion properties of aluminum alloy 7xxx series and metal-matrix composites: 7xxx+metal oxides in chloride and sulfate solutions</b> - M. Grobelny, K. Pietrzak, K. Makowska, D. Rudnik, <i>Motor Transport Institute, 80 Jagiellonska St., 03-301 Warsaw, Poland</i> ; Jan Dutkiewicz, <i>Institute of Metallurgy and Materials Science of Polish Academy of Sciences, 25 Reymonta St., 30-059 Kraków, Poland</i> .
P <sub>12</sub>	<b>Multi-Level Protection of Materials for Vehicles by “Smart” Nanocontainers</b> - M U S T - T. Hack, <i>EADS Deutschland GmbH, EADS Innovation Works, 81663 Munich, Germany</i> ; M.L. Zheludkevich, <i>University of Aveiro, CICECO, Department of Ceramics and Glass Engineering, 3810-193 Aveiro, Portugal</i> ; C. Simon, <i>SINTEF, P.O. Box 124, Blindern, 0314 Oslo, Norway</i> ; M.F. Montemor, <i>Instituto Superior Técnico, ICEMS-DEQB, Lisboa, Portugal</i> .
P <sub>13</sub>	<b>Multicoloring of Anodized Aluminum Film Electrodeposited with Ag Nanorods</b> - M. Iwasaki, Y. Hiyama, K. Miyazaki, <i>Department of Applied Chemistry, Kinki University, 3-4-1 Kowakae, Higashi-Osaka, Osaka, Japan</i> .
P <sub>14</sub>	<b>Effects of Aircraft Operational Environment on the Performance of Corrosion Inhibiting Compounds [CICs]</b> – S. Jacob, A. Trueman, J. Waldie <i>BAE Systems Australia, 40 River Boulevard, Richmond VIC 3121, Australia</i> ; <i>Defence Science and Technology Organisation, 506 Lorimer St Fishermans Bend, Vic, Australia</i> .
P <sub>15</sub>	<b>Novel Anti-corrosion Nanometer Nitrogen Based Thin Films Prepared by PECVD Method for Aluminium Alloys</b> - M. Kalisz, M. Grobelny, <i>Motor Transport Institute, Jagiellońska 80, Str. 03-301 Warsaw, Poland</i> ; Robert Mroczyński, <i>Institute of Microelectronics and Optoelectronics, Warsaw University of Technology, Koszykowa 75, Str.00-662 Warsaw, Poland</i> .
P <sub>16</sub>	<b>In-Situ Temperature Measurement across the Metal/Oxide/Electrolyte Interface during Aluminium Anodizing</b> – M. Schneider, C. Heubner, C. Lämmel, A. Michaelis, <i>Fraunhofer Inst. for Ceramic Technologies and Systems, Winterbergstr. 28, 01277 Dresden, Germany</i> .
P <sub>17</sub>	<b>Effect of trace element Ni on corrosion behaviour of AA6060 aluminium in chloride solution</b> - O. Lunder, John Walmsley, John Erik Lein, <i>SINTEF Materials and Chemistry, N-7465 Trondheim, Norway</i> ; <i>Department of Materials Science and Engineering, Norwegian University of Science and Technology, N-7491 Trondheim, Norway</i> ; Ø. Bauger, <i>Hydro Aluminium, N-6601 Sunndalsøra, Norway</i> .
P <sub>18</sub>	<b>Investigation of Streak Defects on an Anodized AA6063 Aluminium Alloy Extrusion</b> - Y. Ma, X. Zhou, G.E. Thompson, <i>Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester M13 9PL, UK</i> ; J-O. Nilsson, M. Gustavsson, A. Crispin, <i>Sapa Technology, SE-612 81 Finspong, Sweden</i> .

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P <sub>19</sub>	<b>Characterization and Performance Comparison Of Rare Earth Conversion Coatings To Chromates</b> – E. Morris, <i>Deft Inc., 17451 Von Karman Ave, Irvine, CA 92563, USA</i> ; J. McLaughlin, R. Jaffke, and G. Abad, <i>Northrop Grumman, 1 Hornet Way, El Segundo, CA 90245, USA</i> .
P <sub>20</sub>	<b>Electrochemical characterisation of Ti6Al4V alloy in simulated body fluid</b> – E. A. Nouicer, <i>Faculty of Exact Sciences, University of Mentouri Constantine, Route Ain Elbey Constantine, Algeria</i> ; F. Z. Benlahreche, <i>Industrial Chemistry Department, Constantine University, 25000, Algeria</i> ; L. Yahia, <i>Laboratory of Phases Transformation, Department of Physics, Constantine University, 25000, Algeria</i> .
P <sub>21</sub>	<b>Novel Sealing Process of Anodic Oxide Films Formed on Aluminium Using Lithium Hydroxide Solution</b> – S. Ono, M. Ookura, H. Asoh, <i>Department of Applied Chemistry, Faculty of Engineering, Kogakuin University, 2665-1 Nakano, Hachioji, Tokyo 192-0015, Japan</i> ; H. Tanaka, and T. Yamamoto, <i>Suzuki Motor Corporation, 300 Takatsuka, Minami-ku, Hamamatsu 432-8611, Japan</i> .
P <sub>22</sub>	<b>Influence of sulphur oxoacids on corrosion for Aluminum alloy</b> - Y. Oya, Y. Kojima, <i>Furukawa-Sky Aluminum Corp, 366-8511, 1351, Uwanodai, Fukaya City, Saitama Prefecture, Japan</i> .
P <sub>23</sub>	<b>Covalent attachment of an ester type of <math>\alpha</math>alumina</b> - L.A. Muñoz, M.A Gulppi, N.Vejar and M.A. Paéz, <i>Departamento Química de los Materiales, Universidad de Santiago de Chile Avenida Libertador Bernardo O'Higgins 3363, Santiago, Chile</i> ; F.M. Rabagliati, <i>Departamento Ciencias del Ambiente. Universidad de Santiago de Chile, Avenida Libertador Bernardo O'Higgins 3363, Santiago, Chile</i> ; G.E.Thompson, X.Zhou, <i>Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester M13 9PL, U.K.</i>
P <sub>24</sub>	<b>Surface Oxidation of the Aluminum Contained Alloys for High Temperature Corrosion Resistance</b> – I. Paulin, M. Godec, <i>Institute of Metals and Technology, Lepi pot 11, SI-1000 Ljubljana, Slovenia</i> .
P <sub>25</sub>	<b>Analysis of surface film and morphology of 3003 aluminum alloy after immersion in different cation contained model tap waters</b> – M. Sakairi, K. Otani, <i>Division of Materials Science and Engineering, Faculty of Engineering, Hokkaido University, Kita-13, Nishi-8, Kita-ku, Sapporo, 060-8628, Japan</i> ; A. Kaneko, Y. Seki and D. Nagasawa, <i>Nikkei Research &amp; Development Center, Nippon light metal co. ltd., 1-34-1 Kambara, Shizuoka-ku, Shizuoka, Shizuoka-ken, 421-3291, Japan</i> .
P <sub>26</sub>	<b>Effect of Surface Preparation on Corrosion Performance of Cold Sprayed Coatings Applied to AA2024-T351 Substrates</b> - M. M. Sharmaa, C. W. Ziemiana, <i>Bucknell University, Lewisburg, Pennsylvania, 17837, USA</i> ; B. D. Bouffardb, <i>Naval Surface Warfare Center, Carderock Division, West Bethesda, MD 20817, USA</i> .
P <sub>27</sub>	<b>The Influence of Space Environment on Substructure of Light-Absorbing Thermoregulating Al Coatings</b> – L. Skatkov, <i>PCB "Argo", 4/23 Shaul ha-Melekh str., 84797 Beer Sheva, ISRAEL</i> ; P. Cheremskoy; V. Gomofov, <i>National Technical University "khPI", 21 Frunze str., 61002 Kharkov, UKRAINE</i> .

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P <sub>28</sub>	<b>The influence of cold deformation on electrochemical and mechanical properties of EN AW 8006 alloy</b> - S. Slavica Matešić, <i>Sibenik-Knin County, Trg Pavla Subića I 2, Sibenik 22000, Croatia</i> ; J. Radošević, <i>Faculty of Electrical, Mechanical Engineering and Naval Architecture, Ruđera Boskovića bb, Split 21000</i> ; A. Višekrunac, <i>Aluminij d.d. Mostar, Mostar 88000, Bosnia and Herzegovina</i> .
P <sub>29</sub>	<b>Anodic Deposition under Galvanostatic PEO Conditions</b> - <u>L. Snizhko</u> , <i>Ukrainian State University for Chemical Engineering, 8, Gagarin Ave., Dnepropetrovsk, 49005, Ukraine</i> ; A. Yerokhin, N. Gurevina, A. Matthews, <i>University of Sheffield, Sir Robert Hadfield Building, Mappin Street, Sheffield, S1 3JD, UK</i> .
P <sub>30</sub>	<b>A comparative study of the protective properties of trivalent chromium and fluorzirconium passivation treatments for AA1050 alloy</b> – W.I.A. Santos, <u>C.R. Tomachuk</u> , J.M. Ferreira-Jr, I.Costa, <i>Instituto de Pesquisas Energéticas e Nucleares-IPEN, Centro de Ciência e Tecnologia de Materiais, Av. Prof. Lineu Prestes, 2242 - Cidade Universitária, 05508-000 São Paulo, Brazil</i> .
P <sub>31</sub>	<b>Pyrrole- and Aniline-functionalized silanes: outstanding treatments with fundamental differences</b> – M.Trueba, S.P. Trasatti, <i>Department of Physical Chemistry and Electrochemistry, Università degli Study di Milano, via Golgi 19, 20133 Milan, Italy</i> .
P <sub>32</sub>	<b>FIB Preparation and Grain Structure of Rolled-in Oxide Areas on Aluminium Lithographic Printing Sheets</b> - M. Tzedakil, I. De Graeve, H. Terryn, <i>Electrochemical and Surface Engineering, Vrije Universiteit Brussel, Pleinlaan 2, B-1050 Brussels, Belgium</i> ; M. Galceran Mestres, S. Godet, <i>Service Matieres et Materiaux, Universite Libre de Bruxelles, Roosevelt Av. 50, B-1050 Brussels, Belgiu</i> ; B. Kernig, J. Hasenclever, <i>R&amp;D HYDRO Aluminium Bonn, Georg-von-Boeselager Str.2, D 53014, Bonn, Germany</i> .
P <sub>33</sub>	<b>Electrochemical investigation of conformational rearrangements of polypyrrole deposited on Al alloys</b> – E. Volpi, M. Trueba, S.P. Trasatti, <i>Department of Physical Chemistry and Electrochemistry, University of Milan, Italy</i> .
P <sub>34</sub>	<b>Approaches to measure surface reactivity of aluminium AA1050 alloy</b> - <u>M. Witkowska</u> , G. Thompson, E. Koroleva, <i>Corrosion and Protection Centre, The University of Manchester, Manchester M13 9PL, UK</i> .
P <sub>35</sub>	<b>Comparison of the mechanisms of formation of sol-gel coatings and chromate conversion coatings on aluminium and aluminium alloys</b> - Y. Liu, Z. Feng, G. E. Thompson, P. Skeldon, <i>Corrosion and Protection Centre, School of Materials, The University of Manchester, Oxford Road, Manchester M13 9PL, UK</i> .
P <sub>36</sub>	<b>Effect of Surface Preparation and Cold Sprayed Coating on Fatigue Performance of AA2024-T351 Substrates</b> - <u>C. W. Ziemian</u> , M. M. Sharma, <i>Bucknell University, Lewisburg, Pennsylvania, 17837, USA</i> ; B. D. Bouffard, <i>Naval Surface Warfare Center, Carderock Division, West Bethesda, MD 20817, USA</i> .