Confirmed posters (at June 6th 2017)

<u>Session 1</u>: Formation of anodic films on Al, Ti, Mg alloys (Reaction mechanisms, formation and organization of the porosity (self-assembly, nanoindentation), modeling)

- 1-10 The morphological transition of anodic TiO₂ nanostructures in HF-based mixture electrolytes, Jihyeon Park, Korea
- 1-48 Tuning the pore ordering in anodic alumina films via symmetry of the Al substrate, Ilya Roslyakov, Russia
- 1-51 Anodizing of aluminum alloy 1050 in phosphoric and sulfophosphoric medium, Vincent Cartigny, France
- 1-75 3D nanoporous titania formed by anodization as promising photoelectrode materials, Grzegorz D. Sulka, Poland
- 1-80 Estimating the quality of thin aluminum layers through their anodizing behavior, Jakub Kolar, Czech Republic
- 1-84 Nanoporous anodic aluminium oxide : effect of aluminium purity and the barrier layer thinning, Naima Mansouri, Algeria
- 1-86 Influence of anodization voltage on the surface morphology and photoelectrochemical activity of TiO₂ nanotube layers, Leyla Rebek, Algeria
- 1-89 In situ diagnostics of coating thickness for industrial scale hard anodization of aluminium, Evgeny Parfenov, Russia
- 1-103 Preparation and characterizations of AAO porous templates obtained by self-assembly for next-generation nanointerconnects, Laurent Arurault, France

<u>Session 2</u>: Specific anodizations (Local or horizontal anodizations, other electrical modes (pulsed or AC), other media (organic or molten salts), other substrates (Nb, W ...))

- 2-15 Investigation of pulse anodization parameters on the production of anodic alumina oxide (AAO), Franscisco Trivinho-Strixino, Brazil
- 2-64 The effect of anodizing parameters on the formation of ZnO nanowires during anodic oxidation of zinc in bicarbonates electrolytes, Leszek Zaraska, Poland
- 2-100 Effect of the substrate composition on the anodic titanium oxide formation, Marta Michalska-Domanska, Poland

Session 3: Formation of MAO films (Reaction mechanisms, micro-arc formation, modeling)

- 3-7 Influences of negative duty cycle on the characteristics of micro-arc oxidation coated magnesium-lithium alloy, Le-Hung-Toan Do, Taiwan, R.O.C.
- 3-24 Current and frequency role in energy efficiency of PEO treatment of aluminium with precursor films, Raul Arrabal, Spain
- 3-29 Electrolyte ageing: does it matter in the plasma electrolytic oxidation process ?, Gérard Henrion, France
- 3-59 Effect of sodium silicate on the electrochemical behavior of 1050 alloy during MAO, Emmanuel Rocca, France
- 3-82 Studies on the surface conditions of titanium alloy processed by the method of plasma electrolytic polishing with different electrolyte recipe, Wang, Lishi, China
- 3-96 Effect of multi-step plasma electric oxidation on structure and corrosion resistance of anodic films formed on AZ31 magnesium alloy, Sachiko Ono, Japan
- 3-104 Micro-arc anodizing of zinc in alkaline media, Emmanuel Rocca, France
- 3-105 Initial stages of micro-arc anodizing of 2214 aluminum alloys, Emmanuel Rocca, France

Session 4: Anodic / MAO films for protection against corrosion (Green sealings, sealing mechanism, anticorrosion)

- 4-42 Fabrication of environmentally friendly anti-corrosive multi-layer structure composite coatings on AZ31B Mg alloys, Zhaohua Jiang, China
- 4-52 Comparative evaluation of anodized AA2024-T3 aircraft alloy samples with and without subsequent Cerium conversion coating, Stephan Kozhukharov, Bulgaria
- 4-56 Corrosion behavior of anodic alumina support used for photocatalytic application, Lamia Bouchama, Algeria
- 4-58 Growth behaviour and corrosion properties of low-voltage plasma electrolytic oxidation coatings on a die-cast AM50 magnesium alloy, Vahid Dehnavi, Canada

Session 5: Colored anodic / MAO films (Pigments and dyes and their modes of action, thermo-optical properties, coloring)

- 5-20 Photoluminescence in anodic alumina oxide (AAO) membranes prepared by galvanostatic anodization of AI, S. Janaina Santos, Brazil
- 5-36 **Development of environment friendly plasma anodizing method for Magnesium press and casting alloys**, Sung Hyung Lee, Japan
- 5-38 Colour control of metal-anodic aluminium oxide-Al nanostructures by morphological parameters of self-ordered anodic aluminium oxide films, Vicente Manzano Cristina, Switzerland
- 5-50 Influence of AC-polarization parameters on incorporated nickel in alumina films, Christian Girginov, Bulgaria
- 5-69 Vanadium oxide in Plasma Electrolytic Oxidation coatings, Gérard Henrion, France
- 5-102 Electro-chemical colorings of anodic films prepared on 7175 aluminium alloy for space applications, Jerome Roche, France

Session 6: Anodic / MAO films for mechanical properties (Tribology, fatigue...)

- 6-1 Anodic plasma electrolytic polishing of medium carbon steel after nitriding, Sergei Kusmanov, Russia
- 6-2 Anodic plasma electrolytic nitrocarburising of Ti-6Al-4V alloy, Irina Kusmanova, Russia
- 6-3 Anode saturation of steel with boron and carbon in aqueous electrolyte, Pavel Belkin, Russia
- 6-5 Plasma Electrolytic Oxidation of TA6V for the improvement of its surface hardness, Marie Laveissière, France
- 6-65 New development of multifunctional coating for rain erosion, corrosion resistance and aesthetical aerospace requirements of aluminum large parts by plasma electrolytic oxidation, Julien Escobar, France
- 6-81 Mechanisms involved in the decrease in fatigue life of anodized Aluminium alloys, Catherine Mabru, France

Session 7: Other functionalizations of anodic / MAO films (Biocompatible coatings, electrical properties...)

- 7-8 TiO₂ nanotubes with a doping of Mo by single step anodization and potential shock, Doungheun Ha, Korea
- 7-9 A simple spray coating of bismuth oxide on TiO₂ nanotube arrays for lithium ion battery anode material, Kim Namyoul, Korea
- 7-39 The oxide coating modified with transition metals (Ni, Co, Cu) prepared by plasma electrolytic oxidation and its Fenton-like activity by degradation of phenol, Jiankang Wang, China
- 7-40 Preparation of TiO₂ nanotube/C/Mn_xO_y nanostructured composite for high performance electrochemical capacitive energy storage, Qixing Xia, China
- 7-57 Insulating properties of hot dip aluminized microarc oxidation coatings on stainless steel, Jung-Chou Hung, Taiwan
- 7-62 Some peculiarities of MAO treatment of Ti-15Mo alloy, Snizhko Lyubov, Ukraine
- 7-72 Interaction of surface modified nanoporous anodic titanium oxide layers with osteoblast-like cells line SAOS-2, Grzegorz D. Sulka, Poland
- 7-73 Effect of the anodization potential on the apatite-forming ability of anodic titanium oxide layers, Grzegorz D. Sulka, Poland
- 7-74 Influence of different morphology of anodic titanium oxide on a photodegradation of dye, Grzegorz D. Sulka, Poland
- 7-78 VOC degradation and wastewater purification using TiO₂ nanostructures obtained by anodic oxidation, Davide Prando, Italy
- 7-85 Functionalization of PEO coatings with RGD-modified phosphonic acid derivatives for improved biocompatibility of nanostructured titanium implants, Evgeny Parfenov, Russia
- 7-94 Investigation of PEO coatings on nanostructured titanium for biomedical applications, Evgeny Parfenov, Russia
- 7-95 Investigation of PEO coatings on nanostructured Mg1Ca alloy for biodegradable implants, Veta Mukaeva, Russia

<u>Session 8</u>: Membranes, templates and composites (Preparation and functionalization (by MOFs, CNTs ...) of membranes or templates)

- 8-23 Electrochemical barrier layer thinning of anodic alumina templates for nanofabrication of nanowires, Wojciech J. Stepniowski, Poland
- 8-53 Silver nanowire array electrodes for electrocatalytic reduction of trichloromethane in aqueous solutions, Anna Brudzisz, Poland
- 8-54 Fast and efficient method for preparation of anodic Al₂O₃ membranes formed by anodization in sulfuric acid, Anna Brudzisz, Poland
- 8-76 Synthesis of semiconducting InSb nanowires with different diameters using anodic aluminium oxide (AAO) templates, Grzegorz D. Sulka, Poland