**SYMPOSIUM PROGRAM**

**May 15, 2019**

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| 9.00- 10.00 | **Final registration of participants, posters preparation**Hall for Academic Senate,building1,floor 4 |
| 10.00-10.15 | ***Opening ceremony***Academic Senate,building1,floor 4 |
| 10.15-11.30 | ***Oral presentations:*** |
| 10.15-10.40 | **1.1** | **Metal oxide layers for energy saving and storage**E. Koudoumas, D. Vernardou*Department of Electrical and Computer Engineering* *Hellenic Mediterranean University, Greece* |
| 10.40-11.00 | **1.2** | MоO2/mesoporous carbon and MoO2 / reduced graphene oxide composite electrodes for supercapacitor applicationsV. Boichuk , A. Kachmar, V. Kotsyubynsky, Kh. Bandura, S. Fedorchenko Vasyl Stefanyk Precarpathian National University,*Ivano-Frankivsk, Ukraine* |
| 11.00-11.15 | **5.1** | **Investigation of electrical conductivity and electromagnetic shielding effectiveness of carbon based composites**O. Butenko, V. Khomenko, V. Barsukov*Kyiv National University of Technologies and Design,* *Kyiv, Ukraine* |
| 11.15-11.30 | **3.7** | Agricultural by-product extracts as scale inhibitors of mild steel in tap waterG.Vasyliev, V. Vorobyova, T. Zhuk, O. Kalinchuk *National technical university of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Kyiv, Ukrainе* |
| 11.30-11.45 | General Photography. |
| 11.45- 13.00 | **Poster Session** (in parallel with Coffee break) |
| 13.00-14.30 | Lunch break  |
| 14.30-16.00 | Ceremony of Awarding for the Symposium & Student Olympiad. Closing Ceremony.Hall for Academic Senate,building1,floor 4 |

**Poster Session:**

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| Section 1. **Electrochemical power sources** |
| **1.3** | **Alternative binders for electrodes of electrochemical capacitors -the transition to aqueous and alcohol based solvent electrode processing.** O. Chernysh, V. Khomenko, I. Makyeyeva, V. Barsukov |
| **1.4** | A polymer sulfur-based electrode for high energy Li batteries. Influence of the materials of current collector and electrode design on the performance of Lithium-Sulfur batteriesYu. Polishchuk, E. Shembel, Andrea Strakova Fedorkovac,A. Markevich,V. Redko, I. Lysytsya |
| **1.5** | Nickel-copper metal hydroxide multilayer coating as anode material for ethanol oxidation.A.Maiselis  |
| **1.6** | **Direct changing of structural, morphological and Electrochemical Properties of the Sulfur- doped nano TiO2**N. Romanovska, P. Manoryk, P. Yaremov, O. Byeda, K. Pershina, K. Кazdobin |
| **1.7** | **Electrocatalitical production of the hydrogen from urea-water solutions**O. Kordysh, K. Pershina  |
| **1.8** | **EFFECT OF CARBON MATERIALS ON THE** **ELECTROTECHNICAL CHARACTERISTICS OF****STARTER LEAD ACID ACCUMULATORS**V. Nefedov, I. Vashnevsky, N. Posadna, Yu. Polishchuk  |
| **1.9** | **Photoelectrochemical properties of anodic Cu-WO3 nanostructured materials**M. Zych, K. Syrek, G. D. Sulka |
| **1.10** | **gold electrodes modified with polyelectrolyte for bioelectrochemical applications**J. Grudzień, M. Jarosz, G. Sulka  |
| Section 2. **Electrodeposition** |
| **2.1** | **Synthesis of Ni nanowires by electrodeposition from deep eutectic solvent**R. Palowska, J. Bogusz, L. Zaraska, A. Brzózka, G.D. Sulka |
| **2.2** | Composition, topography and electrocatalytic properties of Ni-TiO2 composite coatingsN. Novytska, Ie. Zaverach  |
| **2.3** | **Study of electrocatalytic activity of the vanadium-containing materials for the hydrogen evolution reaction**B. Bairachniy, Yu. Zhelavska, O. Smirnova, A. Pilipenko, O. Finohenov |
| **2.4** | **ELECTROCHEMICAL DEPOSITION of Co-Mo-W And Co-Mo-Zr COATINGS FROM COMPLEX ELECTROLYTES**T. Nenastina, M. Ved’, V. Proskurina, S. Zyubanova  |
| **2.5** | **Electrochemical synthesis of nanostructured zinc oxide layers**K. Mika, R.Socha, P. Nyga, G.Sulka, L. Zaraska |
| **2.6** | **Structural and phase analysis of composites based on TiO2**V.Shtefan, N. Kanunnikova, A. Yepifanova, O.Kobziev  |
| Section 3. **Corrosion protection** |
| **3.1** | Improving mild steel corrosion resistance in tap water: influence of water flow and supply ratesG. Vasyliev, O. Chyhryn |
| **3.2** | Inhibition efficiency of apricot pomace extract as a “green” corrosion inhibitorV. Vorobyova, M. Skiba, O. Chygyrynets’, T. Pylypenko, T. Motronyuk |
| **3.3** | Corrosion and mechanical properties of nanostructure electrolytic Co-W and Fe-Co-W alloysM. Ved’, N. Sakhnenko, T. Nenastina, M. Volobuyev, I. Yermolenko |
| **3.4** | Investigating of the Mechanism of Stress Corrosion Cracking of Controllable Rolling Pipe Steel Х70 In Near-Neutral EnvironmentL. Nyrkova, S. Melnichuk, S Osadchuk, P. Lisovyi, S. Prokopchuk |
| **3.5** | Influence of phase composition of Zn-Ni film on the corrosion resistance of zinc coatingV. Artemenko, A. Maizelis |
| **3.6** | **Corrosion Resistance of Welding Joint of Aluminum Alloy of the system Al-Mg-Cu-Si**L. Nyrkova, T. Labur, S. Osadchuk, S. Melnichuk, M.Yavorska, Yu. Borysenko |
| **3.8** | [**PARTICULAR**](https://www.multitran.ru/c/m.exe?t=1018435_1_2&s1=%EE%F1%EE%E1%E5%ED%ED%EE%F1%F2%FC)**ITIES OF CATHODIC AND ANODIC PROCESSES ON CARBON STEEL DEPENDING ON THE DEPTH OF IMMERSION IN A NEUTRAL SOLUTION**S. Оsadchuk, L. Nyrkova, Yu. Fateev |
| **3.9** | **APPLICATION OF POLARIZATION resistance method FOR THE CORROSION MONITORING of ALUMINUM ALLOYS**O. Buket, N. Bilousova, N. Chornobryva, A. Kushmyruk  |
| Section 4. **Electrochemical sensors** |
| **4.1** | **Substituted Benzoic Acid Amides as the modifiers of the Ethanol Bioelectrooxidation Using NAD+- dependent Alcohol Dehydrogenase**O. Kyslova, A. Monko  |
| **4.2** | **Properties and Sensing Behavior of RuO2/Ti and TiO2 /Ti Films**K. Pershina, O. Linyucheva  |
| **4.3** | **Langmuir-Blodgett technology as a tool for wiring the electrochemical sensor for glucose**A. Bespaluk, K. Prachova, K. Pershina |
| **4.4** | **Synthesis of nanostructured anodic TiO2 impregnated with Co, Cu, Fe ions**M. Soltys |
| Section 5. **Modern electrochemical and related** **technologies** |
| **5.2** | The investigation of 10Sc1CeSZ structure transformation and ionic conductivityI. Brodnikovska, N. Korsunska, L. Khomenkova, Yu. Polishchuk, M. Brychevskyi, Y. Brodnikovskyi, D. Brodnikovskyi, I. Polishko, O. Vasylyev |
| **5.3** | **Nanostructured PEO-coatings on silumin as environmental catalysts**A. Karakurkchi, M. Sakhnenko, M. Ved’, A. Gorokhyvskiy |
| **5.4** | Synthesis of silver nanoparticles in a plasma electrochemical system for degradation of environmental pollutantsM. Skiba, V. Vorobyova  |
| **5.5** | **Organic-inorganic ion exchange materials for electromembrane processing of liquid wastes produced by dairy industry**Yu. Dzyazko, Yu. Borysenko, Yu. G. Zmievskii, V.V. Zakharov, V.G. Myronchuk |
| **5.6** | **Polymer-inorganic membranes modified with graphen-containing nanocomposites: electrochemical approaches of structure investigations**Yu. Dzyazko, L. Rozhdestvenska, V. Ogenko, A. Bildukevich, T. Plisko, Yu. Borysenko, Yu. Zmievskii |
| **5.7** | **The Influence of Butanol on the Brass Surface Morphology During the Electrochemical Treatment in Phosphoric Acid Solutions** D. Silchenk, A. Pilipenko, **O. Smirnova, Yu. Zhelavska, V. Babenko** |
| **5.8** | Anode Material for Oxidation of Organic AcidsKosohin O., Mazanka V. |
| **5.9** | Electrochemical polishing of silver in acid thiourea-citrate solutions O. Smirnova, A. Pilipenko, Yu. Zhelavska, B. Osypa, M. Ivashchenko |
| **5.10** | Hydrated Antimonic Acid as a Solid ElectrolyteO. Kosohin, O. Matvieiev, O. Linyucheva  |
| **5.11** | **Protective properties of diffused chrome-calorizing coatings with** **TiN and Ti2AlN** **barrier layers on VT6 alloy**T. Loskutova, I. Pogrebova, V. Khyzhnyak, I. Smokovich,N. Nikitina |
| **5.12** | **Nanostructured polyfunctional tin-based electrocatalyst**D. Ushchapovskyi, O. Linyucheva, T. Motronyuk, V. Klus, R. Redko, G. Podvashetsky, A. Zabaluev, O. Aksenova  |
| **5.13** | **Effect of the colloidal graphite filler on the properties of electroconductive polyethylene compositions**D. Novak, Y. Budash, V. Plavan, E. Kucherenko |
| **5.14** | **HIGH-EFFICIENT ANODIC TREATMENT OF STAINLESS STEEL AISI 304 FOR MEDICAL PURPOSE IN DEEP EUTECTIC SOLVENT ETHALINE**A. Kityk, N. Bannik, O. Kyn  |
| **5.15** | **Electrochemical dissolution of pseudo alloys of tungsten carbide type in acid electrolytes**M. Оsмanоvа, L. Lyashok, S. Leshchenko, E. Isмаhilоvа, I. Kolupaev |
| **5.16** | **FEATURES OF FORMATION OF POROUS ALUMINUM OXIDE**L. Liashok, H. Shevchenko, S. Leshchenko, O. Brovin |
| **5.17** | **ANODIC OXIDATION OF CUPPER-ZINC ALLOY**V. Datsenko,E. Khobotova,V. Larin  |
| **5.18** | **COMBINED CATHODE PROCESSES IN THE ELECTROCHEMICAL SYNTHESIS OF SODIUM HYPOCHLORITE**K. Rutkovska, G. Tulskyi , I. Chahine, A.Tulska  |
| **5.19** | **TERNARY Fe-Co-Mo ALLOYS AS CATALYTIC MATERIALS** **IN OXIDATIONS REACTIONS OF LOW MOLECULAR WEIGHT ALCOHOLS** Yu. Sachanova, N. Sakhnenko, M.Ved’, I.Yermolenko, M.Volobuyev |
| **5.20** | **Comparable investigation of "shielding paints" for shadowing electromagnetic radiation**K. Buhaiova, O. Butenko, V. Tverdokhlib, V. Barsukov |
| **5.21** | **The influence of the graphite powder particle size on electrical conductivity of carbon-polymer composites** O. Budko, O. O. Butenko, V. Tverdokhlib, V. Khomenko  |
| **5.22** | **STUDY OF PHYSICAL AND CHEMICAL PROPERTIES OF POROUS NIOBIUM OXIDE** L. Lyashok , S. Vodolazhchenko, , S. Deribo, V. Gomozov |