Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences

Foundation "Pro-Kataliza"

under the auspices of the

International Society of Electrochemistry

5th International Symposium on Surface Imaging/Spectroscopy at the Solid/Liquid Interface

ISSIS 2018

June 6th – 8th, 2018, Krakow, Poland

Michał Mosiałek, symposium chair, organizer
Marian Jaskuła, co-chair,
Grzegorz Sulka, co-organizer
Robert Socha, co-organizer

Site: http://issis2018.krakow.pl/

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Main topics of the Conference:

1. New materials for electrochemistry and energy related applications - their synthesis and characterization by *in situ* and *ex situ* spectroscopic, microscopic, SPM and electrochemical techniques
2. Application of spectroscopic, microscopic, SPM and electrochemical techniques in studies of surfaces modified by metal oxides, semiconductors, polymers, colloids, hybrid materials and nano-sized catalysts
3. High resolution imaging of clusters, biomolecules and biological systems
4. Fundamentals of surface structure, reactivity and electron transfer – comparison of experimental and theoretical results

Plenary lectures

Juan Feliu, University of Alicante, Spain
"Electrocatalysis in transition: from Art to Science"

Paweł Kulesza, University of Warsaw, Poland
“Structure and reactivity of catalytic materials for electroreduction of carbon dioxide”

Mieczysław Łapkowski, Silesian University of Technology, Poland
"Application of spectroelectrochemistry to study of organic molecules and polymers for optoelectronics”

Robert Schlögl, Fritz Haber Institute of the Max Planck Society, Germany
“Towards Rational Design through Chemical Dynamics of Interfacial Catalysts”

Invited lectures

Anatoly Antipov, M. V. Lomonosov Moscow State University, Russia
„Bromate reduction at rotating disk electrode via autocatalytic redox-cycle mechanism”

Elena Baranova, University of Ottawa, Canada
"In-situ Polarization Modulation Infrared Reflection Absorption Spectroscopy (PM-IRRAS) for Electrochemical Valorization of Glycerol”

Aleksandra Baron-Wiechec, UK Atomic Energy Authority, Culham, UK
“The possible effect of high magnetic field on the aqueous corrosion behavior of eurofer”

Viacheslav Barsukov, Kiev National University of Technologies and Design, Ukraine
"Synergetic effect for on the interphase boundary for particles of different morphology during the interaction of nanostructured carbon composites with electromagnetic radiation"

Angel Cuesta Ciscar, University of Aberdeen, UK
" Spectroscopic Evidence of Size-Dependent Buffering of Interfacial pH by Cation Hydrolysis during CO_2 Electroreduction"

Tomasz Czujko, Military University of Technology, Poland
"Nanoporous aluminum-iron oxides obtained by the
anodization of FeAl intermetallic alloy”

Robert Hahn, University of Erlangen-Nuremberg, Germany
“Self-organized anodic nanotube: Growth, Properties, Applications”

Izabela Janowska, University of Strasbourg, France
“Bio-inspired synthesis, tailoring and assembly of (few layer) graphene for energy related applications”

Piotr Jasiński, Gdańsk University of Technology, Poland
“DRT transformation of impedance spectra for SOC analysis”

Wolfgang Kautek, University of Vienna, Austria
“Photonics and mechanics of the electrochemical double layer: hot electron and nanotribological electrochemistry”

Christopher Lucas, University of Liverpool, UK
“Charge distribution at the electrochemical interface”

Jan Macák, University of Pardubice, Czech Republic
Anodic TiO_2 Nanotube Layers: Excellent Platform for Secondary Materials

Takuya Masuda, NIMS, Japan
"Applications of In Situ X-ray/Electron Spectroscopy for Solid/Liquid Interfaces"

Wojciech Simka, Silesian University of Technology, Poland
“Plasma Electrolytic Oxidation as a Tool for Metals Functionalization”

Galina Tsirlina, M. V. Lomonosov Moscow State University, Russia
"Reaction volume, a little known parameter of electron transfer: how to estimate it from experiment"

Victor Vega, University of Oviedo, Spain
"Hard-Anodic nanoporous alumina membranes: pores growth mechanism and broad self-ordering regime"

Mikhail Vorotyntsev, M. V. Lomonosov Moscow State University, Russia
"Electrochemical route to Co(II) and Mn(II) polyporphines and their electrocatalytic properties towards oxygen reduction reaction"

Paweł Weroński, Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Poland
“Roughness of surface decorated with randomly distributed pillars”

The conference venue:
Building of the J. Haber Institute of Catalysis and Surface Chemistry
Polish Academy of Sciences
ul. Niezapominajek 8, Krakow, Poland

Conference fee:

Regular participant	300 Euro (1296 PLN)
Student	150 Euro (648 PLN)
Invited lecturer	120 Euro (512 PLN)

Please note: if the course of euro significantly changes, the prices in PLN will be corrected.

Fee covers Participation in the conference, book of abstracts, 3 lunches, refreshments during the poster session and coffee breaks, and the conference dinner.

Commercial participants
Commercial enterprises are invited to present their products during the conference. Cost of participation 365 Euro, VAT not included (1570 PLN netto).
The fee covers: stand and poster table close to the conference room for presenting the products during the whole conference and one page in the book of abstracts for advertisements.

Forms of participation:
Oral presentation on invitation of the organizers or selected from among submitted abstracts. All participants will have also the opportunity to present their achievements in the form of posters.

Abstract and registration form at: http://issis2018.krakow.pl/

Electrochemica Acta:
A special Issue of Electrochimica Acta, open for all participants, will be published after the conference. All works will undergo peer revision process. The deadline for paper submission is September 30th, 2018.

Accommodation:
Krakow, being a city of tourism offers plenty of possibilities for accommodation, ranging from inexpensive pensions (guest rooms) to five-star luxury hotels. Please, make your reservation by your travel agency or by yourself via internet, using (for instance):

http://www.booking.com/city/pl/krakow.html
http://www.nawojka.bratniak.krakow.pl/

Organizers will be also pleased to help you to find an inexpensive logging.
Please, send us an e-mail with your request.

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