



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



**Foundation "Pro-Kataliza"**

under the auspices of the



**International Society of Electrochemistry**

**5<sup>th</sup> International Symposium on Surface Imaging/Spectroscopy  
at the Solid/Liquid Interface**

**ISSIS 2018**

**June 6<sup>th</sup> – 8<sup>th</sup>, 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/>

### Scientific Committee:

E. Baranova, University of Ottawa, Canada  
A. Cuesta Ciscar, University of Aberdeen, UK  
J. Feliu, University of Alicante, Spain  
I. Janowska, University of Strasbourg, France  
M. Jaskuła, Jagiellonian University, Poland, Co-chair  
W. Kautek, University of Vienna, Austria  
A. Kowal, Nanocenter Zvornik, Bosnia and Herzegovina  
P. Kulesza, University of Warsaw, Poland  
M. Lapkowski, Silesian University of Technology, Poland  
C. Lucas, University of Liverpool, UK  
M. Mosiałek, ICSC, Poland, Chair  
P. Nowak, ICSC, Poland  
E. Savinova, University of Strasbourg, France  
W. Simka, Silesian University of Technology, Poland  
G. Tsirlina, M. V. Lomonosov Moscow State University, Russia  
K. Uosaki, International Center for Materials Nanoarchitectonics, Japan  
M. Vorotyntsev, M. V. Lomonosov Moscow State University, Russia  
P. Warszyński, ICSC, Poland  
M. Witko, ICSC, Poland

### Organizing Committee:

M. Jaskuła, Jagiellonian University, Poland  
G. Mordarski, ICSC, Poland  
M. Mosiałek, ICSC, Poland, Organizer, e-mail: [nbmosial@cyfronet.pl](mailto:nbmosial@cyfronet.pl)  
P. Nowak, ICSC, Poland  
E. Porębska, ICSC, Poland  
R.P. Socha, ICSC, Poland,  
G. Sulka, UJ, Poland, Co-organizer, e-mail: [sulka@chemia.uj.edu.pl](mailto:sulka@chemia.uj.edu.pl)  
P. Warszynski, ICSC, Krakow, Poland

### 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**

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

“Effects of magnetic field on the corrosion behavior of metallic materials for DEMO fusion reactor”

Viacheslav Barsukov, Kiev National University of Technologies and Design, Ukraine

"Synergetic effect for particles of different morphology at the interphase boundary during the interaction of nanostructured carbon composites with electromagnetic radiation"

Angel Cuesta Ciscar, University of Aberdeen, UK

"In-situ ATR-SEIRAS and PMRS studies of the electrocatalytic reduction of CO<sub>2</sub>"

Tomasz Czujko, Military University of Technology, Poland

"Nanoporous aluminum-iron oxides obtained by the anodization of FeAl intermetallic alloy”

Enrique Herrero, University of Alicante, Spain

The title will be announced soon

Izabela Janowska, University of Strasbourg, France

“Bio-inspired synthesis, tailoring and assembly of few layer graphene for energy related applications”

Wolfgang Kautek, University of Vienna, Austria

“Photonics and mechanics of the electrochemical double layer: hot electron and nanotribological electrochemistry”

Lifeng Liu, International Iberian Nanotechnology Laboratory, Portugal

"Composition and shape control of transition metal phosphide nanoparticles for improved water splitting performance"

Christopher Lucas, University of Liverpool, UK

“Charge distribution at the electrochemical interface”

Jan Macák, University of Pardubice, Czech Republic

Anodic TiO<sub>2</sub> Nanotube Layers: Excellent Platform for Secondary Materials

Joaquín Rodríguez-López, University of Illinois at Urbana-Champaign, Urbana, USA  
The title will be announced soon

Elena R. Savinova, University of Strasbourg, France  
The title will be announced soon

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

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

Wojciech Stepniowski, Delft University of Technology, Netherlands  
“From corrosion protection to nanostructural architectures”

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

Kohei Uosaki, International Center for Materials Nanoarchitectonics, Tsukuba, Japan  
"Determination of Electronic Structures at Electrochemical Interfaces by IR/Visible Double Resonance Sum Frequency Generation Spectroscopy"

Mikhail Vorotyntsev, M. V. Lomonosov Moscow State University, Russia  
"Synthesis of Transition Metal Ion Containing Polyporphine Films by Electrochemical Method"

#### **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:**

##### **Early birds before 31.03.2018:**

Regular participants	250 Euro (1080 PLN)
Students	120 Euro (512 PLN)
Invited lecturer	120 Euro (512 PLN)

##### **After 31.03.2018:**

Regular participants	300 Euro (1296 PLN)
Students	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.

**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.

**Address for correspondence:**

Michał Mosiałek

J. Haber Institute of Catalysis and Surface Chemistry,

Polish Academy of Sciences

Niezapominajek 8

30–239 Kraków, Poland

tel. +48 12 6395131, fax +48 12 4251923

[ncissis@cyfronet.pl](mailto:ncissis@cyfronet.pl) (alias: [ncissis@cyf-kr.edu.pl](mailto:ncissis@cyf-kr.edu.pl) )