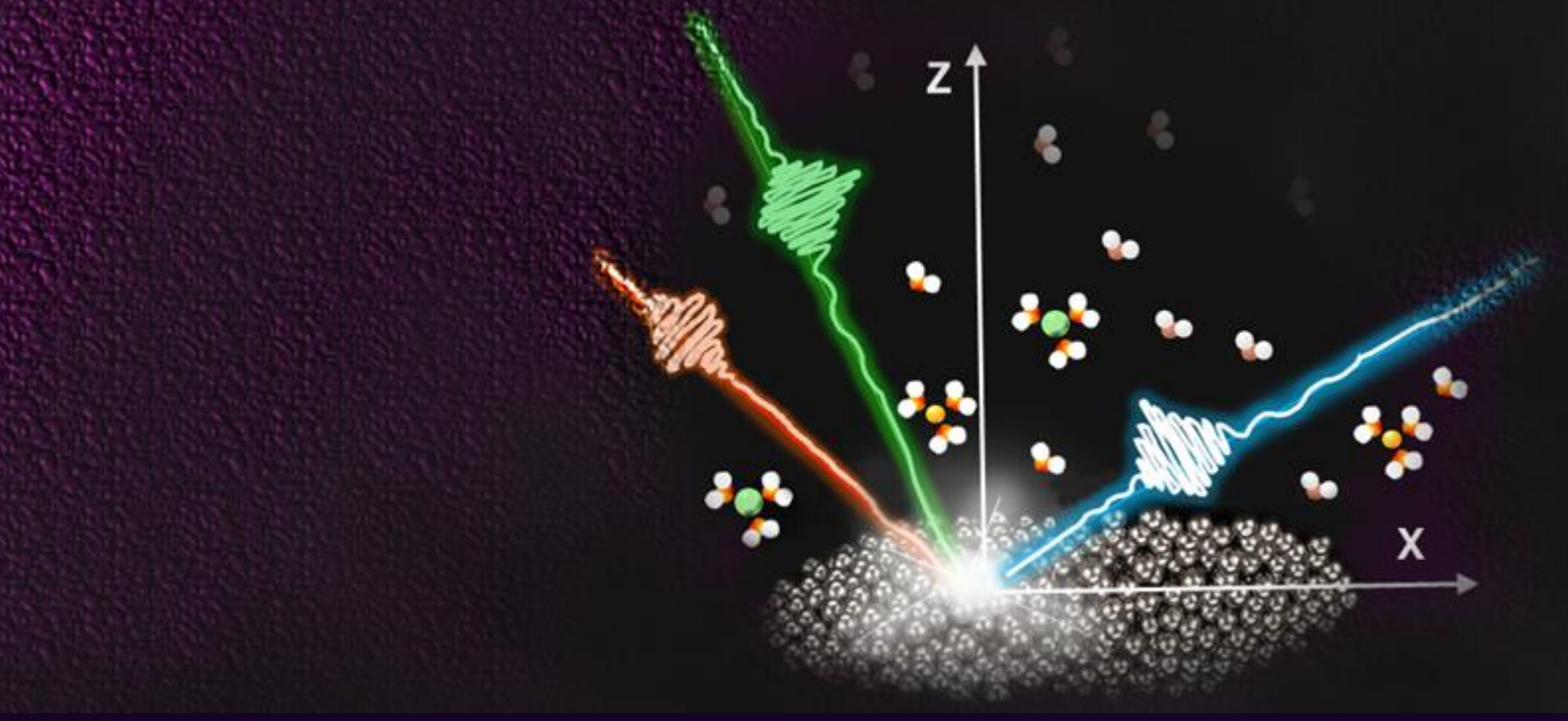
7th International Symposium

on Surface Imaging/Spectroscopy at the Solid/Liquid Interface



5th – 7th JUNE 2024, Krakow, Poland

Organizer

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

Faculty of Chemistry
Jagiellonian University

Patronage

The President of the Polish Academy of Sciences
Honorary patronage

The Rector of the Jagiellonian University

The Marshal of the Małopolska Region

Polish Chemical Society

Foundation Nanonet

Silesian Nano Cluster

Sponsors and partners

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Event Partner

Irtech

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Invitation

You are warmly invited to the 7th International Symposium on Surface Imaging/Spectroscopy at the Solid/Liquid Interface from **5th to 7th June 2024**.
The meeting will be hosted by the Faculty of Chemistry at the Jagiellonian University.
We look forward to welcoming you to the event.
Let's enjoy exquisite science in an inspiring environment.

International Scientific Committee

Magdalena Dudek, AGH, Poland

Krzysztof Fic, PUT, Poland

Halina Krawiec, AGH, Poland

Cheng-Xin Li, Xi'an JU, China

Jacek Ryl, GUT, Poland

Wojciech Simka, SUT, Poland

Grzegorz D. Sulka, JU, Poland **Chair**

Piotr Warszyński, ICSC PAS, Poland

Małgorzata Witko, ICSC PAS, Poland

Leszek Zaraska, JU, Poland

Małgorzata Zimowska, ICSC PAS, Poland

Local Organizing Committee

Agnieszka Brzózka, JU, Poland

Magdalena Gurgul, JU, Poland

Joanna Kapusta-Kołodziej, JU, Poland

Dzmitry Kharytonau, ICSC PAS, Poland

Grzegorz Mordarski, ICSC PAS, Poland

Michał Mosiałek, ICSC PAS, Poland

Konrad Skowron, ICSC PAS, Poland

Piotr Skowron, ICSC PAS, Poland

Robert P. Socha, ICSC PAS, Poland

Grzegorz D. Sulka, JU, Poland, **Organizer**, e-mail: sulka@chemia.uj.edu.pl

Karolina Syrek, JU, Poland

Piotr Warszyński, ICSC PAS, Poland

Leszek Zaraska, JU, Poland

Małgorzata Zimowska, ICSC PAS, Poland, **Co-organizer,** e-mail: malgorzata.zimowska@ikifp.edu.pl

Main topics of the conference

- New materials for electrochemistry and energy related applications - their synthesis and characterization by *in situ* and *ex situ* spectroscopic, microscopic, SPM, and electrochemical techniques
- Nanomaterials for energy storage, energy conversion, and sensing applications
- 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
- High resolution imaging of clusters, biomolecules, and biological systems and their characterization using the electrochemical methods
- Fundamentals of surface structure, reactivity, and electron transfer – comparison of experimental and theoretical results

Plenary lectures

Philippe Allongue, École Polytechnique, France
Growth and operando studies of CoFe oxide thin films for OER catalysis

Nicola Pinna, Humboldt-Universität zu Berlin, Germany
Novel Materials Chemistry for Energy and Environmental Applications

Cheng-Xin Li, Xi'an JU, China
Control of the solid/liquid interface during plasma spraying and its application for high performance electrolyte of solid oxide fuel cells

Invited lectures

confirmed:

Angel Cuesta Ciscar, University of Aberdeen, Scotland, UK
Water at electrode-electrolyte interfaces: combining HOD vibrational spectra with ab initio-MD simulations

Isabella Concina, Department on Engineering Sciences and Mathematics, Division of Materials Science, Luleå University of Technology, Luleå, Sweden
Prussian blue analogues as supercapacitors: a critical perspective

Illia Dobryden, RISE Research Institutes of Sweden, Sweden
Application of advanced nanomechanical and nanoelectrical AFM methods in surface science

Ivan Khalakhan, Department of Surface and Plasma Science, Charles University, Czech Republic
In situ tracking of oxygen reduction reaction catalysts degradation

Invited lectures

Halina Krawiec, AGH University of Krakow, Poland
Corrosion mechanism of binary MgZn and AlMg alloys in artificial seawater in the presence of a thin electrolyte layer and in the bulk electrolyte solution

Wojciech Nogala, Institute of Physical Chemistry, Polish Academy of Sciences, Poland
Scanning electrochemical microscopy of hydrogen evolution reaction and coupled homogeneous processes

Sanju Gupta, 1. Department of Metrology and Optoelectronics, Faculty of Electronics, Telecommunication and Informatics, Gdańsk University of Technology, Gdańsk, Poland; 2. Department of Physics, The Pennsylvania State University, University Park, PA 16802, USA
'Multipronged' approach to investigate interfacial processes on graphene-based hybrid electrodes at solid/liquid interface for electrochemical energy storage

Marta Prześniak-Welenc, Gdansk University of Technology, Poland
Structure Matters: Unraveling the Photocatalytic Properties of Vanadate Bronzes

Jacek Ryl, Gdansk University of Technology, Poland
Multiparametric impedance discriminant analysis - a new, effective tool to study macromolecular fingerprints

Sławomir Sęk, Faculty of Chemistry, University of Warsaw, Poland
Supported lipid bilayers as platforms for probing action of antimicrobial peptides and peptidomimetics

Maciej Sowa, Silesian University of Technology, Poland
The role of post-treatment parameters on the properties of oxide films formed on light metal alloys via plasma electrolytic oxidation

Ewa Wierzbicka, Military University of Technology, Poland
Enhancing Photocatalytic and Photoelectrochemical Hydrogen Production through Nanostructured TiO_2 Modifications

Mikhail Zheludkevich, Institute of Surface Science, Helmholtz-Zentrum Hereon & Institute for Material Science, Kiel University, Germany
Understanding the evolution of anode/electrolyte interface during discharge of Mg-Air primary cells

Special issue of **Electrochimica Acta**

A special issue of Electrochimica Acta, open for all participants, will be published after the conference.
Participants will have the opportunity to publish their work presented at the Symposium in a special issue of Electrochimica Acta (Impact Factor: 6.6). Potential authors will be invited by the editors of the special issue, and each manuscript will undergo a standard review procedure.

The conference venue

Faculty of Chemistry
Jagiellonian University
Gronostajowa 2, 30-387 Kraków, Poland

Important dates

	Date
Registration deadline	15th May 2024
Deadline for abstract submission for oral presentation	30th April 2024
Conference begins	5th June 2024

Conference fee

	Early bird (before 15th April)	Regular
Regular participant	1700 PLN (€ 380)	1800 PLN (€ 400)
Student	850 PLN (€ 185)	900 PLN (€ 200)
Invited speakers	1050 PLN (€ 230)	1125 PLN (€ 250)

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

Conference fee includes: *participation in the conference, conference materials, coffee breaks and lunches, conference dinner, refreshments during the poster sessions, welcome reception.*

Commercial participants

Commercial enterprises are invited to present their products during the conference. Cost of participation **2035 PLN**, VAT not included.
Additional accompanying participants must pay the following fees: 1700 PLN *before April 15th* or 1800 PLN *after April 15th* (VAT not included).

The fee covers:

(1) *Participation in the conference, conference materials, coffee breaks and lunches, conference dinner, refreshments during the poster sessions, welcome reception.*

(2) *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 in colour for advertisements.*

Forms of participation

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

Abstract and registration form

Please visit an official website of the conference: http://issis.edu.pl/

Address for correspondence

Grzegorz D. Sulka

Faculty of Chemistry
Jagiellonian University
Gronostajowa 2, 30-387 Kraków, Poland

tel. +48 12 6862518
issis2024@uj.edu.pl