

Russian Academy of Sciences

Division of Chemistry and Material Sciences

Federal Agency for Scientific Organizations

A.N. Frumkin Institute of Physical Chemistry
and Electrochemistry

M.V. Lomonosov Moscow State University
Department of Chemistry

D.I. Mendeleev University of Chemical
Technology of Russia

10th International Frumkin Symposium on Electrochemistry

First Circular



Moscow
21-23 October 2015

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J. Zimmerberg (USA)

Invited plenary speakers (confirmed)

C. Amatore (Paris, France)

D. Aurbach (Bar Ilan, Israel)

R. Compton (Oxford, UK)

J. Ulstrup (Lyngby, Denmark)

J. Zimmerberg (Bethesda, USA)

Scope of the Symposium

Microsymposium 1

Fundamental Aspects of Electrochemistry

Organizers: V.A. Safonov (Chair, safon@elch.chem.msu.ru), A.I. Danilov, Yu.D. Gamburg, I.G. Medvedev (all from Russia).

- modeling of electrochemical processes;
- kinetics and mechanisms of electrochemical processes;
- structure of electrified interfaces;
- new experimental and theoretical approaches to study electrochemical systems.

Microsymposium 2

Electrochemistry of Functional Materials

Organizers: M.A. Vorotyntsev (Chair, mivo2010@yandex.com), V.V. Malev, O.A. Petrii, A.V. Vannikov (all from Russia)

- electrochemical and redox synthesis of functional inorganic, organic, polymeric and composite materials;
- characterization of functional materials via combination of electrochemical and other methods;
- theoretical modeling of functional materials;
- promising functional materials for electrocatalysis, energetics, sensors, membranes, micro-, nano- and optoelectronics.

Microsymposium 3

Electrochemical Energetics

Organizers: T.L. Kulova (Chair, tkulova@mail.ru), V.S. Kolosnitsin, A.B. Yaroslavtsev, Yu.P. Zaikov (all from Russia), A.P. Kurbatov (Kazakhstan)

- kinetics and mechanism of processes in batteries, supercapacitors, fuel cells and electrolyzers.
- applications of new electrode and electrolyte materials for batteries, supercapacitors, fuel cells and electrolyzers.
- high temperature electrochemical devices.
- new investigation techniques of electrochemical devices.
- degradation and aging modes of materials and electrochemical devices.

Microsymposium 4

(Bio)electrocatalysis: from biosensors to biofuel cells.

Organizers: A.A. Karyakin (Chair, Russia, aak@analyt.chem.msu.ru), P. Atanassov (USA), A. Kuhn (France), S. Shleev (Sweden), W. Shin (Korea).

- *electrochemistry of biological systems: theoretical approaches and experimental strategies;*

- *fundamentals of electrocatalysis and*

bioelectrocatalysis;

- *biosensors: from environmental monitoring to health care;*

- *enzyme, organelle, and microorganism based fuel*

cells: from energy harvesting to implantable biodevices.

Microsymposium 5

Bioelectrochemistry

Organizers: Yu. A. Chizmadzhev (Chair), O.V.

Batishchev (olegbati@mail.ru), Yu.A. Ermakov (all from Russia), P. Pohl (Austria), J. Zimmerberg (USA)

- *protein-lipid and polymer-lipid interactions*

- *membranes in electric field. electroporation.*

- *nerve impulse propagation and excitable media*

- *ion transport along and across the membrane*

- *thermodynamics, electrostatics and mechanics of membranes.*

Microsymposium 6

Scientific relations between Electrochemists from Western and Eastern Europe: past and future

Organizers: F. Scholz (Chair, Germany, fscholz@uni-greifswald.de), R. Compton (UK), G. Inzelt (Hungary), Yu.V. Pleskov (Russia)

- *This microsymposium is focused on the history and future prospects of scientific relations between electrochemists in Western and Eastern Europe.*

Symposium format

The Symposium includes plenary lectures, keynote, oral and poster presentations.

Official language

Official language of the Symposium is English.

Students session

Special "Students session" will be organized, where young scientists under 30 (having no PhD degree) exposing posters during the main event, will present short oral talks.

Publication

The Book of Abstracts will be available at the opening of the Symposium. Special issue of "Elektrokhimiya" ("Russian Journal of Electrochemistry") will be published.

Location and Dates

The Symposium will be held at the A.N. Frumkin Institute of Physical Chemistry and Electrochemistry in Moscow on October 21-23, 2015.

Deadline for abstract submission will be specified in the Second Circular to be distributed in April 2015.

Symposium fee

We will do our best to keep the organizing fee as low as possible, expectedly at the level:

150 euro - for a regular participant;

50 euro - for students.

Second Circular

The Second circular with the information on abstracts, symposium fee, payment options and accommodation will be distributed after receiving registration forms.

Sponsors

Sponsorship and financial support by Foundations and Companies are gratefully acknowledged.

On organizational issues please contact:

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Leninskii prospect 31, Bld. 4, Moscow 119071, Russia

Website: <http://frumkinsymp.ru>

On scientific issues please address to the corresponding microsymposium organizer.

Registration

Please make your preliminary registration before March 15, 2015 via one of the two ways:

1) visit the Symposium website at <http://frumkinsymp.ru>, choose "Registration" and fill in the form on-line.

or

2) Fill in the registration form attached below:

Registration form

10th International Frumkin Symposium

October 21 – 23, 2015, Moscow

Name _____

First name _____

Title (Dr/Prof/Mr/Ms/Mrs) _____

Affiliation _____

Mailing address _____

Zip code|City|Country _____

Tentative title
of the presentation _____

Authors _____

Microsymposium number _____

Preferred presentation type: oral poster

E-mail: _____

Date _____

Signature _____

*Please, submit this form by March 15, 2015
via E-mail, fax, or mail*

This preliminary registration only means that you are interested in receiving further information on the Symposium. Final registration for participation in the Symposium will be carried out later, after distribution of the Second Circular, receiving your abstract and payment of the symposium fee.