

Confirmed plenary and key-note lectures

Christian AMATORE (France) "Investigating single living cells with ultramicroelectrodes"

Masashi HOJO (Japan) "Dissolution of gold and platinum metal electrode by dilute nitric acid containing halide salts"

Vitaly KALCHENKO (Ukraine) "Calixarene receptors of environmentally hazardous and biorelevant species"

Yuriy KHOLIN (Ukraine) "Physico-chemical characteristics of a medium in the near-surface layer of hybrid silica-organic materials and their influence on adsorption equilibria"

Stepan KUCHMIY (Ukraine) "Extremely small metal-chalcogenide nanocrystals: synthesis, photonics, and applications"

Armand LATTES (France) "Molecular aggregation in polar non aqueous solvents: interfacial behaviour, micellization, and applications"

Nikolay MCHEDLOV-PETROSSYAN (Ukraine) "Xanthene compounds: unique tools for examining liquid media"

Vitaly PAVLISHCHUK (Ukraine) "New multifunctional materials based on molecular- and nano-magnetics"

Anatoliy POPOV (Ukraine) "Design of green organized solutions for decontamination"

Oleg PREZHDO (USA) "Excited state dynamics in nanoscale materials for solar energy harvesting"

Isabelle RICO-LATTES (France) "New "green" trends in galenic: ecodesign of amphiphilic compounds derived from sugars"

Wolfram SCHROER (Germany) "Criticality of ionic solutions, ionic liquids and liquid metals"

Natalya VODOLAZKAYA (Ukraine) "Protolytic equilibria in various organized solutions"

Alain WALCARIUS (France) "Electrogeneration of advanced sol-gel materials"

Edilson BENVENUTTI (Brazil) "Ionic silsesquioxanes: an inexhaustible source of new advanced hybrid materials"

Vladislav CHERANOVSKI (Ukraine) "Low-temperature thermodynamics of one-dimensional models for transition metal polymeric compounds"

Ihor FRITSKY (Ukraine) "Molecular grids and metallacrowns: novel families of discrete nanosized high-nuclear exchange clusters "

Alexander ISHCHEKOV (Ukraine) "Solvatochromism and Solvatofluorochromism of Polymethine dyes "

Oleg KALUGIN (Ukraine) "Structure and Dynamics of Room Temperature Ionic Liquids and their Mixtures with Molecular Liquids"

Alexander KOROBV (Ukraine) "Kolmogorov-Johnson-Mehl-Avrami approach in heterogenous chemical kinetics"

Dmitriy NERUKH (UK) "The dynamics of water and conformational transitions in proteins"

Roberto RIVELINO (Brazil) "Structure, thermodynamics and electronic properties of carbon nanostructures via atomistic simulations"

Sergey SHTYKOV (Russia) "Dilatometry of low energy liquid molecular assemblies"

Registration fees

are expected to be as follows:

regular participants: 300 EURO

IUPAC Members, Affiliates and Fellows: 240 EURO

PhD students: 100 EURO

scientists from the developing countries: 100 EURO

Scientists from Ukraine and the NIS countries: 400 UAH

PhD students from Ukraine and the NIS countries: 200 UAH

Abstracts publication (without participation): 100 UAH

The registration fee will be reduced for 30% for young scientists (under 35).

Important dates

First Circular	June 10, 2013
Second Circular	December 1, 2013
Online Registration and Abstract Submission	February 1, 2014
Registration fee	April 1, 2014
Third Circular	May 1, 2014

Contacts

MPC '14 Secretariat, Prof Natalya Vodolazkaya
School of Chemistry,

V.N. Karazin Kharkiv National University

4 Svoboda Square, Kharkiv 61022 UKRAINE

Phone: +380 57 707 52 66

Fax: +380 57 705 12 61

E-mail: beketov2014@karazin.ua



International Conference **Modern Physical Chemistry for Advanced Materials** (MPC '14)

*devoted to the 150th anniversary of foundation
the Physico-Chemical Department and
delivering the first course in physical chemistry
by Professor Nikolai Beketov*

June 26-30, 2014
Kharkiv, Ukraine



**First circular and call for
registration and papers**

MPC '14 website:

www-chemo.univer.kharkov.ua/beketov2014

International Conference
**Modern Physical Chemistry
for Advanced Materials**

*devoted to the 150th anniversary of foundation
the Physico-Chemical Department and
delivering the first course in physical chemistry
by Professor Nikolai Beketov*

**Organizing Committee cordially invites you to
participate in the Conference that will be held in
Kharkiv, Ukraine. June 26 – 30, 2014.**

The conference is organized by V. N. Karazin Kharkiv National University (Ministry of Education and Science of Ukraine), L. V. Pisarzhevsky Institute of Physical Chemistry (National Academy of Sciences of Ukraine) and L. M. Litvinenko Institute of Physico-Organic Chemistry and Coal Chemistry (National Academy of Sciences of Ukraine)

The Kharkiv V. N. Karazin National University, formerly Kharkov State University, has a long-standing tradition in physical chemistry dating back almost 150 years, in which the **renowned Russian chemist, Nikolai Beketov** (1827–1911), played a pioneering role. As early as 1860, he took the first initiative in a series of lectures entitled “Special Course of Organic Chemistry and Interrelation Between Physical and Chemical Phenomena.” Within a few years a decisive milestone was reached when he founded the Physico-Chemical Division of the University in 1864 and delivered the first course of lectures on physical chemistry in 1865.

Scope of the conference

The main emphasis will be on the contribution of physical chemistry into the modern material science. Oral and poster presentations will be organized around the following main topics:

- New materials
- Organized solutions (supramolecular chemistry, nanochemistry, microreactors, macromolecules, sensors). Green chemistry
- Electrochemistry and solution chemistry (thermodynamics; physico-organic chemistry; electrochemistry; spectroscopic methods)
- Ecotoxicological aspects of nanotechnology
- Theoretical chemistry

Official Language

English

International Scientific Advisory Committee

Christian Amatore (France) Chairman
Nikolay Mchedlov-Petrosyan (Ukraine), Co-Chairman
Yoshitaka Gushikem (Brazil)
Vitaly Kalchenko (Ukraine)
Gerbert Kamalov (Ukraine)
Alexander Kononov (Russia)
Vyacheslav Koshechko (Ukraine)
Armand Lattes (France)
Christian Reichardt (Germany)
Isabelle Rico-Lattes (France)
Yuriy Zolotov (Russia)

International Organizing Committee

Anatoliy Popov (Ukraine) Chairman
Yuriy Kholin (Ukraine) Co-Chairman
Igor Fritsky (Ukraine)
Masashi Hojo (Japan)
Oleg Kalugin (Ukraine)
Stepan Kuchmiy (Ukraine)
Oleg Prezhdo (USA)
Wolffram Schroer (Germany)
Sergey Shtykov (Russia)
Aslan Tsivadze (Russia)
Kevin James Wilkinson (Canada)

Program Committee Local Committee

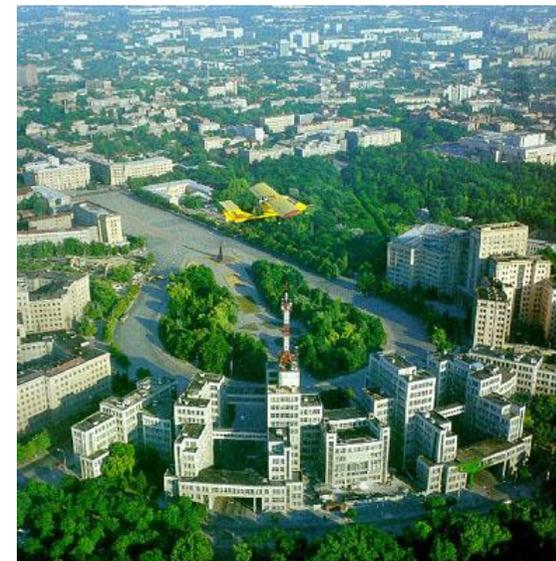
Vladislav Cheranovskiy
Andrey Doroshenko
Viktor Georhiievskiy
Oleg Shishkin
Irina Svir
Vladimir Zaitsev
Yuriy Kholin, Chairman
Natalya Vodolazkaya, Secretary
Valentin Chebanov
Oleg Kalugin
Vasiliy Larin
Alexander Lebed
Anton Panteleimonov

Conference publications

One-page abstracts will be published in the Proceedings that will be available to participants on arrival. The participants will have a possibility to submit their contributions presented at the conference to scientific journals. For the present the list of journals includes ***Journal of Molecular Liquids, Kharkiv University Bulletin (Chemical Series)***. It is expected to be enlarged. The papers will be reviewed according to the routine procedure.

Conference venue

The Conference will take place at V. N. Karazin Kharkiv National University, Kharkiv, Ukraine.



Located in the eastern part of Ukraine, Kharkiv has quite a lot to offer to visitors, and the weather at the end of June is usually favorable for sightseeing. It is the second city of Ukraine with the population of about 1.5 million. Convenient and good-quality accommodation is available in hotels near the University. For young participants some rooms in the students hostel will be provided. Kharkiv has direct air and train connection with a number of foreign countries. Also, there exists regular train and bus connection with the main Ukrainian international airport Borispol (Kyiv). At the moment, no visa is required for citizens of the USA, Schengen and the NIS countries.

Now there are more than 40 higher education and 30 research institutions in Kharkiv. But V. N. Karazin Kharkiv National University, without reserve, occupies a peculiar place among them. With its 200-years history, it is the oldest University in Ukraine with deep traditions and dynamic present. Chemistry is taught in the University from the very first day of its existence, and it was within its walls that the very first course of lectures on physical chemistry was introduced by Professor Nikolai Beketov as early as in 1865.