CHRONICLE

2nd Workshop “The Use of Impedancemetry in Electrochemical Studies”

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The 2nd Workshop “The Use of Impedancemetry in Electrochemical Studies” took place on December 16–18, 2008 at Chernogolovka of Moscow district on the basis of the Institute of Problems of Chemical Physics (IPCP) of the Russian Academy of Sciences (RAS) at the support of the Scientific Council on Electrochemistry of RAS and also on requests of participants of the 1st Workshop (October 2007).

Lectures on the Workshop subjects were read by the leading scientists in the field of electrochemistry and impedancemetry, namely, Professor B.M. Grafov (Frumkin Institute of Physical Chemistry and Electrochemistry, RAS), Professor G.A. Tsirlina (Moscow State University), N.G. Bukun (IPCP, RAS), Yu.A. Dobrovol'skii (IPCP, RAS), A.E. Ukshe (IPCP, RAS).

The main problems considered were as follows:

- basics of the method of impedancemetry;
- electrochemical systems: experimental aspects and the most important relationships;
- electrochemical noises and impedance;
- electrophysical processes at a harmonic external signal;
- peculiarities of describing impedance in solid-state electrochemical systems; method of equivalent circuits;
- electrochemical methods for studying electrocatalysts and electrocatalytic processes;
- electrochemical processes in chemical power sources.

The scientific program of the Workshop included, in addition to lectures, the seminars and practical sessions on the methodical problems of impedance measurements, which were carried out by E.A. Astaf'ev (OOO “Elins”) and A.V. Levchenko (IPCP, RAS).

The Workshop involved the participation of for most part young (under 30) scientists. They came from the following cities of Russia: Yekaterinburg (Institute of Solid State Chemistry, Ural Division of RAS; Gorky Ural State University; Ural State Technical University named after the first President of Russia, B.N. Yeltsin), Ivanovo (Institute of Chemistry of Solutions, RAS), Kirov (Vyatka State University), Moscow (United Institute of High Temperatures, RAS), Novosibirsk (Institute of Solid-State Chemistry and Mechanochemistry, Siberian Division of RAS; Nikolaev Institute of Inorganic Chemistry, Siberian Division of RAS), Perm (Perm State University), St. Petersburg (Ioffe Physicotechnical Institute, RAS; Institute of Macromolecular Compounds, RAS; St. Petersburg Branch of Boreskov Institute of Catalysis, Siberian Division of RAS) and also from Kiev (Vernadskii Institute of General and Inorganic Chemistry, Ukraine).

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