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OBITUARY

Lev Nikolaevich Nekrasov (1931–2010)

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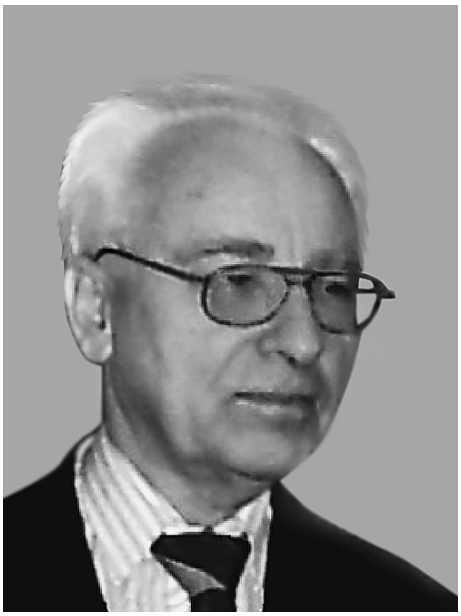

Professor Lev Nikolaevich Nekrasov, the famous electrochemist, the Doctor of Chemistry passed on March 19, 2010. All his life and scientific activities were closely associated with the Faculty of Chemistry of the Moscow State University from which he graduated in 1953. Lev Nekrasov came to the Department of Electrochemistry as a student and in the following 55 years became the leading researcher and the famous specialist in the field of electrochemical kinetics.

His main scientific achievement was the method of rotating ring-disk electrode (RRDE), developed in 1959 in cooperation with academician A.N. Frumkin. This method was designed for detecting and identifying the electroactive final and intermediate short-living (down to 10^{-4} s) products of reactions occurring either on the disk electrode or in the solution bulk. Based on experimental data and the quantitative theory of this method, new approaches to fundamental studies of very complicated multistage electrode processes were undertaken. Nekrasov and his co-workers, students and post graduate students have obtained unique data on the kinetics and mechanism of processes of electroreduction of hydrogen ions and oxygen molecules, metal dissolution, electroreduction of different classes of organic and organometallic compounds. Many systems were studied in aprotic and water-organic media with varying the material of disk and ring electrodes.

Under supervision of Lev Nekrasov, many Soviet, Russian, and foreign scientists get acquainted with this method. He was happy to share his experience and help in interpreting the results. At present, this method and its modifications are widely used in many laboratories all round the world for solving different electrochemical and electroanalytical problems.

In recent years, Nekrasov took part in the experimental testing of the theory of turbulent diffusion layer in electrochemical systems. In 1989, a group of scientists from the Moscow State University and the Frumkin Institute of Electrochemistry of the Russian Academy of Sciences, which included Nekrasov, was given the Inventor's Certificate on the development of yet another new electrochemical research method, namely, the method of hydroelectrochemical impedance.

Nekrasov is the author of more than 150 scientific publications, the co-author of two books "Electrode Processes in Solutions of Organic Compounds" (Moscow State University, 1985) and "Turbulent Diffusion Layer in Electrochemical Systems" (Nauka, 1990). He took active part in pedagogical activities of the department. He trained many students and 14 candidates of sciences.

The important part of his life was associated with the social life of the Faculty of Chemistry of Moscow State University and various scientific-organization activities. He was the member of dissertational councils in the University and the Research-Industrial Association "Sintez", took active part in the Section on Electrochemistry of Organic Compounds of the Scientific Council on Electrochemistry at the Russian Academy of Sciences, was the Executive Secretary of Annual Frumkin Readings on Electrochemistry and the permanent author and referee of the Journal *Elektrokhimiya*. He was awarded three USSR medals and the Diploma of the Presidium of the Supreme Soviet of the Russian Federation (1980).

His friends and relatives knew him as the highly erudite and broad-minded person. He enjoyed classical music and literature, being himself a skilled writer and interesting company.

The name of Lev Nikolaevich Nekrasov occupies a strong place in science and will always be remembered by his colleagues and pupils.

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