

MIKHAIL ALEKSANDROVICH LOSHKAREV
(ON HIS 60th BIRTHDAY)

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and A. N. Frumkin

In January, 1973, an eminent Soviet electrochemist, corresponding member of the Academy of Sciences of the Ukrainian SSR, professor, doctor of chemical sciences, head of the Chair of Physical Chemistry of the F. É. Dzerzhinskii Dnepropetrovsk Chemical Technology Institute, Mikhail Aleksandrovich Loshkarev, celebrated his 60th birthday and 40th anniversary of scientific, social, and pedagogical activity.

M. A. Loshkarev began his scientific activity at the Ural Polytechnic Institute under the supervision of Professor O. A. Esin. In the Thirties he conducted a number of studies in the field of the hydrometallurgy of nickel, the results of which were used for the creation of the first electrolytic nickel production shops in the USSR.

Mikhail Aleksandrovich was a pioneer in the field of the investigation of the influence of surface-active organic substances on the kinetics of electrode reactions. This trend, begun in 1939, constitutes the basis of the multifaceted scientific activity of a large group of co-workers working under his supervision. The numerous results of the work of Professor M. A. Loshkarev's school have led to the creation of the theory of adsorption chemical polarization, which has become widely known and recognized both in the USSR and abroad. In this theory the general principles of organic regulators of the growth of cathodic deposits of metals were formulated.

He published more than 270 scientific works, many of which became starting points in the development of new technological processes of cathodic deposition of metals in hydroelectrometallurgy and electroplating.

Mikhail Aleksandrovich devotes much effort and energy to the education and training of highly qualified scientific pedagogical staffs. Under his supervision, more than 30 candidate's dissertations have been completed and defended; some of his students have become doctors of sciences. He has created and delivered a number of important lecture courses on physical chemistry and theoretical electrochemistry. In his lectures and reports, and in his discussions of scientific research work, M. A. Loshkarev with his characteristic broad outlook and pedagogical mastery is always able to bring out the main points of the problems under discussion and penetrate into their essence.

For 21 years he was rector of the Dnepropetrovsk Chemical Technology Institute and was active in the development of the Institute, the creation of its material base, and the training of many thousands of engineers for chemical industry.

Professor M. A. Loshkarev is active in scientific organizational and social work. One of the leading electrochemists of the Ukraine, he is the editor in chief of the journal, "Voprosy Khimii i Khimicheskoi Tekhnologii" (Problems of Chemistry and Chemical Engineering), a member of the editorial board of *Ukrainskii Khimicheskii Zhurnal* (Ukrainian Chemical Journal), a member of the scientific and technical council of the Ministry of Higher and Secondary Special Education of the Ukrainian SSR, and a member of the coordination councils on electrochemical kinetics under the Academy of Sciences of the USSR and the Academy of Sciences of the Ukrainian SSR.

The Soviet government has highly valued the services of M. A. Loshkarev, having awarded him the Order of Lenin, the Order of the Red Banner of Labor, and medals.

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A great scientist, a splendid teacher, and a remarkable man, Mikhail Aleksandrovich is in the full bloom of his creative forces, and his further studies will undoubtedly enrich Soviet science.