REVEKKA KHAIMOVNA BURSHTEIN (ON HER SEVENTIETH BIRTHDAY)

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On May 6, 1974, an outstanding Soviet physical chemist, Doctor of Chemical Sciences, Professor Revekka Khaimovna Burshtein, celebrated her 70th birthday.

The investigations of R. Kh. Burshtein have been devoted to such important fields of physical chemistry and electrochemistry as chemisorption, catalysis, and electrocatalysis on metals and semiconductors and chemical current sources. The fundamental studies of R. Kh. Burshtein on the adsorption of electrolytes and gases on carbon have substantially promoted the establishment of the electrochemical nature of these processes. In investigating the influence of adsorbed oxygen on the properties of metallic iron, R. Kh. Burshtein was the first to establish the relationship of the active and passive state of iron to the amount of adsorbed oxygen, which plays an important role in the understanding of processes of corrosion and passivation of metals.

Throughout her scientific activity, R. Kh. Burshtein has paid considerable attention to the development of applied studies of importance to the national economy and the introduction of the results obtained into practice.

Of great interest are R. Kh. Burshtein's investigations on the elucidation of the mechanism of the action of porous gas electrodes and the kinetics of electrode processes with the participation of hydrogen, oxygen, and hydrocarbons. The results obtained have been used for the creation of electrochemical generators. Classical current sources have been improved under the supervision of R. Kh. Burshtein, and new types have been developed.

Burshtein is known for her deep penetration into the essence of the phenomena studied, her original approach to the solution of the problems facing her, and her high level of experimental techniques.

R. Kh. Burshtein's scientific works have recieved wide recognition, both in our country and abroad. She has published about 200 scientific works and has received 25 patents. R. Kh. Burshtein's services to Soviet science have been marked by two State Prizes; she has been awarded the Order of the Red Banner of Labor and three medals; she has been awarded the title of Honored Scientist and Technologist of the RSFSR.

Revekka Khaimovna Burshtein is known for her supreme devotion to science—an ability to correctly select the most promising scientific trends and to bring scientific works to completion. More than 25 Candidate's and two Doctoral dissertations have been defended under R. Kh. Burshtein' supervision.

The co-workers of the Institute of Electrochemistry and Revekka Khaimovna's friends and students wish her good health, happiness, and new creative successes.

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