MEN OF SOVIET SCIENCE

ON THE SIXTIETH BIRTHDAY OF ABRAM SOLOMONOVICH GINZBURG AND THE OCCASION OF HIS COMPLETION OF FORTY YEARS OF CREATIVE WORK IN SCIENCE AND EDUCATION

On July 2, 1971, Doctor of Sciences, Professor A. S. Ginzburg celebrated his sixtieth birthday and the completion of forty years of scientific and educational work.

After graduating from the V.I. Lenin Moscow Polytechnic in 1931, A.S. Ginzburg worked as the Director of the Technical Department of the Moscow Baking Industry, which was concerned with building large mechanized baking factories. In his job as Chief Engineer of the mechanized No.3 bakery, A.S. Ginzburg ensured the successful introduction and modernization of equipment which provided for the uninterrupted supply of bread to the Proletarskii district of the capital.

Soon afterward, A.S. Ginzburg was sent to the All-Union Scientific-Research Institute for the Baking Industry, where he participated in the development of the first Soviet conveyer-belt oven systems, the tests upon them, and their routine utilization.

After graduating from the Institute and without severing his links with the manufacturing industry, A.S. Ginzburg began his educational work at the Institute, which has continued successfully to this day. He gave lectures and special courses, including those on special equipment, the physicochemical foundations of the manufacture of food, drying and drying equipment, ovens for the food industry, and so on.

During the last few years he has carried out a considerable amount of research into teaching techniques, and, in collaboration with the staff of his department, he has published a practical handbook on processes and equipment in the food industry, as well as instruction manuals on the design of teaching courses.

In 1941 A. S. Ginzburg submitted a thesis and was awarded the degree of Candidate of Technical Sciences.

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A.S. Ginzburg combines his scientific and teaching activities with his work in industry. In 1940 he was sent as the chief engineer to the Bryanskii factory of the People's Commissariat for the Foodstuffs Industry, where he was concerned with the construction of sugar refineries and the manufacture of field cookers.

A. S. Ginzburg's activities in injustry have frequently been praised and he has been the recipient of four Government prizes.

In 1952 A. S. Ginzburg submitted a further thesis as a result of which he was awarded the degree of Doctor of Technical Sciences and, subsequently, the title of Professor of Processes and Equipment for the Food Industry.

A. S. Ginzburg is well known both in the USSR and abroad as a major specialist in the field of heat- and mass-transfer processes and equipment. His theory of heat and moisture transfer in the baking process has served as a basis for the reconstruction of existing ovens and the development of new ovens for the food industry. During the the last decade he has been chairman of a division of the Scientific Council on Heat and Mass Transfer in Technological Processes which is part of the State Committee on Science and Technology of the Council of Ministers of the USSR, specializing in the development of modern methods for thermal treatment and the dehydration of food products. This special section of the Scientific Council coordinates and directs the fulfilment of the State plan in the field of sublimation drying.

In addition to original scientific work, A.S. Ginzburg has been concerned with the introduction of infrared technology into the national economy; for example, the first quartz lamp oven, developed under his direction, has been accepted by the State Commission, and mass production of it has been ordered.

On the recommendation of the USSR Ministry for the Food Industries, A.S. Ginzburg has reviewed the extensive data provided by scientific and design institutes in the field of drying, and has formulated the recommendations which will govern further developments in this field in the near future.

It is important to mention particularly the 14 years spent by Professor A.S. Ginzburg and his staff at the All-Union Scientific-Research Institute for Grain and Its Products and the Moscow Technological Institute for the Foodstuffs Industry working on the theory and technology of grain drying, which is of major importance for the national economy. The wide application of major grain-drying installations (50 tons grain per hour) based on the method developed at the Institute of Heat and Mass Transfer of the Belorussian SSR Academy of Sciences is of decisive importance for the storage of grain, especially in the underdeveloped parts of Kazakhstan and Siberia. His work in this field has been officially recognized by the Government of the Kazakh SSR.

A.S. Ginzburg's work is characterized by the intimate combination of far-reaching scientific investigation and technological solutions. He holds many patents and many of his ideas have been used in industry.

Professor A.S. Ginzburg is the author of more than 200 scientific papers, including six monographs, a number of which have been translated and published aboard.

He has directed the work of more than 30 postgraduates submitting doctoral and candidate theses.

At the present time, A.S. Ginzburg is the director of the Laboratory of Sublimation Drying and Thermal Processing, which he has himself developed.

Professor Ginzburg is an eminent educator and has been responsible for the training of many engineers. Many of his students have received various Government prizes and have won competitions. This work of A.S. Ginzburg has been officially recognized by the Ministry of Education and Science of the USSR.

For more than 15 years A.S. Ginzburg has been a member of the Praesidium of the Committee on Drying of the All-Union Council of the Scientific-Technical Society a member of the Scientific Council of Heat and Mass Transfer in Technological Processes of the State Committee of the USSR Council of Ministers, a member of the Main Council of the Ministry of Higher and Secondary Special Information of the RSFSR, and a member of many scientific and technical committees of ministries, universities, scientific-research institutes, and editorial boards.

Professor A.S. Ginzburg reaches his sixtieth anniversary at the peak of his creative powers. The editorial board wishes him great success in the future in his work for our country.