Physics – Uspekhi **37** (3) 321 – 322 (1994) © 1994 Jointly Uspekhi Fizicheskikh Nauk and Turpion Ltd

PACS numbers: 01.60. + q

Evgenii Akimovich Turov (on his 70th birthday)

On 27th January 1994, 70 years elapsed since the birth of the well-known theoretical physicist, specialist in the field of solid state physics and magnetism, and Corresponding Member of the Russian Academy of Sciences, Evgenii Akimovich Turov.

Turov was born in the Perm Region. In 1941, he entered the Urals State University and immediately volunteered for service at the front. Up to 1944, he was on active service in the army at the Volkhovsk front. He was severely wounded and after prolonged treatment Turov returned in 1944 to the Urals University, from which he graduated with distinction in 1949, and then became a postgraduate at the Institute of Metal Physics at the Urals Branch of the USSR Academy of Sciences. Since then, Turov's entire scientific career has been associated with this Institute, where he has performed all duties ranging from those of a Senior Laboratory Technician to Head of Division and Deputy Director of the Institute. For 25 years, he has headed the Division of Theoretical Physics and has held the additional post of Professor at the Urals State University. During this period, he trained about twenty Candidates and ten Doctors of Science, having created thereby his own scientific school — one of the branches of the extensive Urals school of theoretical physicists.

Turov's career has embraced all the principal aspects of the theory of magnetism. He and his students have obtained results which exerted and continue to exert a significant influence on the development of modern ideas in this branch of physics: the development of a symmetrical approach to the study of the properties of magnetically ordered substances; the development of a quantum-mechanical theory of magnetic resonance in magnetic materials and its employment for the investigation of the properties of such materials; detailed theoretical study of kinetic phenomena in magnetic media; the study of the dynamics of domain boundaries and other soliton-like objects.

Having completed each definite stage of these lines of research, Turov published fundamental review articles in Soviet and foreign publications as well as original monographs. Special mention should be made of the monographs *Physical Properties of Magnetically Ordered Crystals* and *Nuclear Magnetic Resonance in Ferromagnetic and Antiferromagnetic Materials*. Most of his monographs have also been published abroad and have served as essential manuals for more than one generation of physicists — specialising in magnetism. These books have had a stimulating influence on the development of the corresponding aspects of research in the science of magnetism.

Evgenii Akimovich Turov

Yet another monograph by Turov has been extremely novel and profound in content — *Material Equations in Electrodynamics*. It was published in 1983 and is used as a manual in higher educational establishments.

Turov is also a coauthor of a series of collective monographs on current problems in physics — for example, *Ferromagnetic Resonance* (republished abroad in 1966), *Spin Waves and Magnetic Excitations* (published by North Holland in 1988), and others. During recent years, Turov published a further two monographs which are of great interest for specialists, lecturers, and students in the physics of magnetic phenomena. These are *NMR in Magnetically Ordered Substances and Its Applications* (1990; as a coauthor) and *Kinetic, Optical, and Acoustic Properties of Antiferromagnetic Materials* (1990).

Uspekhi Fizicheskikh Nauk **164** (3) 343 – 344 (1994)
Translated by A K Grzybowski

Turov has often received invitations to visit numerous physics centres in the USA, Canada, France, and other countries, where he delivered cycles of lectures on various problems of the physics of the magnetism of transition metals. He has also regularly delivered invited lectures at All-Union and international conferences on this topic.

As an authority in physics and magnetism in this country, Turov has served over a number of years as a member of the Commission on Magnetism of the International Union of Pure and Applied Physics. At the present time, he is the principal scientific member of the Institute of the Physics of Metals of the Urals Branch of the Russian Academy of Sciences and is member of the Scientific Councils of the Russian Academy of Sciences on the problems of 'Magnetism' and 'Solid State Theory' and acts as scientific consultant to the publication of *Physics Encyclopaedia.*

Turov was honoured with the Orders of Lenin and of the Patriotic War, medals 'For courage' and others, and was awarded the title 'Honoured Worker in Science of the RSFSR'. In 1986 he was awarded the State Prize of the Ukraine as a member of a team of authors for work on the magnetoelastic properties of ferromagnetic and antiferromagnetic materials. In 1991, Turov was elected Corresponding Member of the Russian Academy of Sciences.

Turov has always been full of new creative ideas and has continued to work vigorously and fruitfully. Conveying our greetings to Evgenii Akimovich on the occasion of his 70th birthday, we wish him good health, good cheer, and further successes in his scientific and teaching careers.

A S Borovik-Romanov, S V Vonsovskii, A G Gurevich,
A K Zvezdin, M I Kurkin, G A Mesyats, E G Rudashevskii,
G G Taluts, A P Tankeev, V G Shavrov, V E Shcherbinin