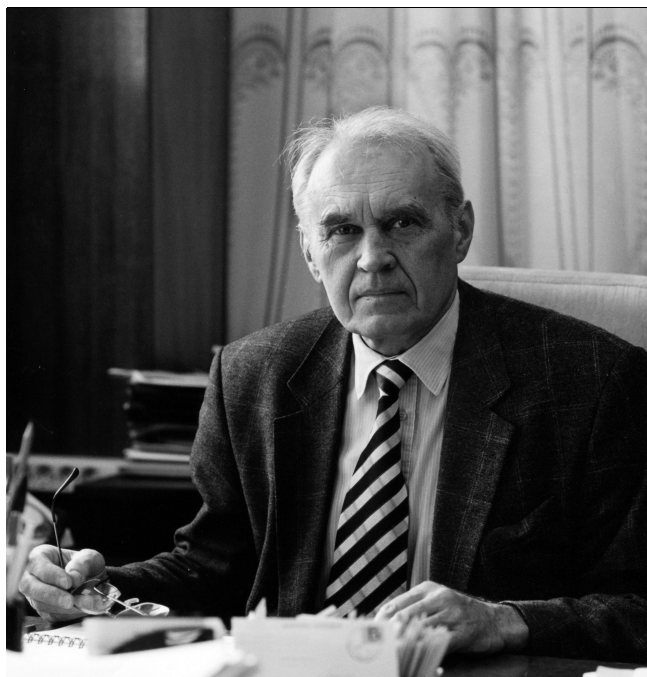


Evgenii Mikhailovich Dianov



Evgenii Mikhailovich Dianov, an outstanding scientist in the field of fibre optics, laser physics and glass physics, Academician of the Russian Academy of Sciences, doctor of physics and mathematics, professor, director of the Fibre Optics Research Center (FORC), A.M. Prokhorov General Physics Institute, RAS, will be 70 on 31 January 2006.

E.M. Dianov was born in the village of Krasnoe, the Tula region. After graduating from the department of physics at the M.V. Lomonosov Moscow State University in 1960, he began to work in the well-known laboratory of oscillations of the P.N. Lebedev Physics Institute. After defending his candidate thesis in 1966, he continued his research under the direct supervision of A.M. Prokhorov who noticed the superior abilities of the young scientist and his striving to study a variety of problems emerging in the development of quantum electronics.

The first significant work of E.M. Dianov was the creation and introducing into production of a neodymium-doped athermal laser glass providing a high directivity of laser radiation. For this work he was awarded in 1974 together with researchers at the State Optical Institute and Lytkarino Plant of Optical Glass the State Prize of USSR. After that, E.M. Dianov got interested in then emerging fibre optics, to which he is now giving all his talent and energy.

On the proposal of A.M. Prokhorov, Evgenii Mikhailovich headed the works on the development of technology for fabricating optical silica fibres with low optical losses (together with the Institute of Chemistry of High-Purity Substances, RAS). Already in 1975, the first optical fibres corresponding to world standards were fabricated in the USSR, and highly radiation-resistant, high-strength, metallised fibres determining

the state-of-the art in this field were developed somewhat later. The theoretical studies of fibre structures performed by E.M. Dianov together with A.S. Belanov, investigations on the dynamics of propagation and electrostriction interaction of optical solitons, works on the second harmonic generation in glasses, laser excitation and propagation of an optical discharge in fibres (fibre fuse effect) and a number of other studies have gained worldwide recognition.

The works of E.M. Dianov are always aimed at solving the most actual scientific problems and achieving practical results. He supervised the development of highly efficient rare-earth-doped fibre lasers and Raman fibre lasers covering the spectral range from 0.92 to 2.2 μm . These results, which have not been surpassed so far, were achieved due to the use of unique 'nonlinear' fibres created after many years of fundamental studies. Along with silica fibres, which are widely used in fibreoptic communication systems, E.M. Dianov also gives much attention to the development of chalcogenide glass and silver halide polycrystalline fibres for the mid-IR range. The scientific and practical results in this direction achieved together with researchers at the ICHPS, RAS were awarded the State Prize of the Russian Federation in 1998.

Evgenii Mikhailovich is an acknowledged leader in the field of fibre optics and its applications in Russia, the author of more than 600 scientific papers and patents. The scientific school of E.M. Dianov established for three decades is justly considered in the scientific world a generator of new ideas forming the basis for important practical achievements. Among his pupils are 9 doctors and more than 60 candidates of sciences. Many of them are successfully working at scientific institutes and industrial organisations in Russia and abroad. He is the chief of the chair of fibre optics at the Moscow Institute of Physics and Technology, which was organised by him in 1999. E.M. Dianov was the editor of several translated monographs and proceedings of the FORC.

In 1987 E.M. Dianov was elected a Corresponding Member of the Academy of Sciences of USSR, in 1994 – an Academician, and in 2002 – a member of the Presidium of RAS. In 1988–1994, before the foundation of the FORC, he was a deputy director of the General Physics Institute, RAS. Evgenii Mikhailovich is a member of the Bureau of the Department of Chemistry and Material Sciences, RAS, a member of the Coordination Council on Innovation Activity, RAS, and of a number of specialised councils.

E.M. Dianov is a member of international scientific societies OSA, IEEE, and MRS, he regularly works in program committees of Russian and International conferences and often presents invited reports. Evgenii Mikhailovich was awarded the Badge of Honour, the Order of Friendship, medals of the USSR, the A.S. Popov Prize of the USSR Academy of Sciences, and the Prize of the USSR Academy of Sciences – Academy of Sciences of the German Democratic Republic.

The staff of the FORC, colleagues and friends of Evgenii Mikhailovich congratulate him on his jubilee and wish him sound health, happiness, and new scientific achievements.

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