

Personalia: Georgii Vladimirovich Rozenberg (On his sixtieth birthday)

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Professor Georgii Vladimirovich Rozenberg, Doctor of Physico-mathematical Sciences, a major scientist in the field of physical and atmospheric optics and a department head of the USSR Academy of Sciences Institute of Atmospheric Physics, observed his 60th birthday on April 29, 1974.

After graduation from the Physics Department of Moscow State University in 1938, Rozenberg first worked under the supervision of G. S. Landsberg in the USSR Academy of Sciences Physics Institute and then in the Atmospheric Optics Laboratory of the Academy of Sciences Institute of Theoretical Geophysics, to which he transferred in 1939 at the suggestion of S. I. Vavilov. He served in the active army from 1941 through 1945, earning the Order of the Red Star, the Order of the Patriotic War (Second Degree), and medals. After the war, he completed his graduate studies at the USSR Academy of Sciences Geophysics Institute and, in 1947, defended his candidate's dissertation, in which, along with experimental and theoretical studies of twilight, he formulated the basic ideas of algebraic optics and the matrix equation of radiation transfer, which are now widely used and subsequently led him to an electrodynamic interpretation of the concepts and laws of photometry and polarimetry. In the years that followed, Rozenberg successfully combined teaching activity at one of the Moscow colleges with his work in theoretical physics. The outcome of this work was a fundamental investigation of electromagnetic wave propagation in turbid media that formed the content of Rozenberg's doctoral dissertation and set the course for his experimental and theoretical studies for many years to come in wave and statistical optics, diffraction, the optics of inhomogeneous (stochastic and stratified) media, transfer theory, spectroscopy, atmospheric optics, hydrooptics, and the optics of aerosols.

Rozenberg's scientific and scientific-organizational talents came into full flower after 1956, when he became head of the Atmospheric Optics Division of the USSR Academy of Sciences Institute of Atmospheric Physics, which was founded in the same year. For several years, this division conducted diversified fundamental research on a broad range of problems of light scattering, aerosol and hydrosol optics, optical sounding of the atmosphere with ground-based and space instruments, refraction theory, atmospheric spectroscopy, radiative heat transfer, radiation transfer theory, and the optics of clouds and planetary atmospheres. To each of these problems, Rozenberg made a substantial contribution either directly through his own work (including that on instrument design) or with ideas that were developed and matured by his co-workers and students at the USSR Academy of Sciences Institute of Atmospheric Physics and other related scientific agencies of the country.

The results of Rozenberg's research, which laid the foundations of modern atmospheric optics and won wide recognition among Soviet and foreign specialists, are reflected in 160 publications, including four monographs.



Rozenberg has rendered a great service in the training of scientific cadre. Among his immediate students are 5 Doctors and more than 20 Candidates of Physico-mathematical Sciences. Since 1968, Rozenberg has been a professor at the Moscow Physico-technical Institute.

His extensive scientific-organizational and scientific-literary activity are also common knowledge.

From 1946 through 1962, he was senior scientific editor of "Uspekhi Fizicheskikh Nauk," where he did the scientific and literary editing of the journal on Volumes 28 to 78. For many years, he has been a member of the editorial staff of "Uspekhi Fizicheskikh Nauk" and "Izvestiya Akad. Nauk SSSR (Seriya 'Fizika Atmosfery i Okeana')." Since 1967, he has been a member of the Commission on Radiation of the International Association of Meteorology and Atmospheric Physics.

Georgii Vladimirovich is now at the height of his creative powers, and there is no doubt that he will enrich our Soviet science with many additional results and productive ideas.

We wish him sturdy good health and successful accomplishment of new scientific projects.

Translated by R. W. Bowers