

Evgenii Andreevich Vinogradov (on his 80th birthday)

DOI: <https://doi.org/10.3367/UFNe.2021.09.039072>

October 3, 2021 was the 80th birthday of the corresponding member of the Russian Academy of Sciences (RAS) Evgenii Andreevich Vinogradov — a prominent scientist in solid state spectroscopy, a successful organizer of science and higher education, director of the Institute of Spectroscopy of RAS from 1989 to 2015, head of the chair of Quantum Optics of the Moscow Institute of Physics and Technology (MIPT) from 1989 to 2020, academician of the European Academy of Sciences, and honorary resident of the science city of Troitsk.

Evgenii Andreevich Vinogradov was born on October 3, 1941 into a family of factory workers. After finishing secondary school No. 1 in a small town of Pravda in the Moscow region in 1958, he entered Kaliningrad Mechanical Technical School (town of Kaliningrad, Moscow region), and, on graduating in 1961 as a radio technician assembler, he was sent to work at the Central Scientific Research Institute of Machine Building (TsNII MASH).

From 1961 to 1964, Evgenii Andreevich served in the ranks of the Soviet Army. From 1964 to 1970, he studied at MIPT and then, from 1970 to 1973, in the postgraduate course at MIPT and the P N Lebedev Physical Institute of the USSR Academy of Sciences (FIAN).

After a brilliant presentation of his candidate thesis, “The study of optical phonons in semiconductor compounds A_2B_6 by far infrared radiation methods,” he has worked at the Institute of Spectroscopy of the USSR Academy of Sciences since 1973, where he has risen from junior research fellow to head of the sector and the Laboratory of Spectroscopy of Disordered Media.

In 1982, E A Vinogradov defended his doctoral thesis, “Spectroscopy of vibrational states in quasi-two-dimensional semiconductor structures.” In 1988, he was conferred the rank of professor in the specialty of ‘Optics’.

From 1986 to 1989, E A Vinogradov headed the Laboratory of Thin Film Physics at the P N Lebedev Physical Institute of the USSR Academy of Sciences. From 1989 to 2015, E A Vinogradov was head of the Institute of Spectroscopy of RAS. During the very challenging years for Russian science, Evgenii Andreevich and his scientific-organizational team managed not only to preserve the leading spectroscopic school but also to ensure the development of new scientific research areas both on the basis of the institute he headed and in the framework of the Program of the Division of Physical Sciences of the Russian Academy of Sciences (DPS RAS), Optical Spectroscopy and Frequency Standards.

In 2008, E A Vinogradov was elected a corresponding member of RAS, Division of Physical Sciences. From 1996 to 2020, he was head of the MIPT chair of Quantum Optics. In



Evgenii Andreevich Vinogradov

1999, he was awarded the Order of Friendship and in 2002 was elected a full member of the European Academy of Sciences.

E A Vinogradov is a member of the Presidium of the Troitsk Research Center of RAS, Bureau of the Division of Physical Sciences of RAS, and Bureau of RAS Councils: Optics and Laser Physics and Spectroscopy of Atoms and Molecules. He is a member of the editorial boards of the journals *Turkish Journal of Physics*, *Semiconductor Physics*, and *Materials and Devices Journal*. He organizes a large number of leading international and all-Russia symposia, conferences, and scientific schools.

E A Vinogradov is a recognized specialist who obtained significant results in solid state physics and pioneering results in studies of crystal lattice dynamics (optical phonons and polaritons), structural phase transitions in crystals, IR spectroscopy of condensed media in far and near fields, and spectral instrument engineering in the IR wave range.

Vinogradov laid the basis of the scientific research area in physics of fluctuation electromagnetic fields of solids and clarified, in a series of experimental and theoretical studies, their relation to fundamental phenomena in nature. He



E A Vinogradov in his office.



E A Vinogradov delivering a lecture.

President grants. The results obtained in the framework of this school underlay dozens of candidate and doctoral theses. Many of Evgenii Andreevich's disciples became prominent scientists who have been active in the frontlines of the scientific progress and have headed laboratories at leading Russian and foreign scientific educational centers.

Working as director of the institute and being an active citizen of the town of Troitsk, Evgenii Andreevich Vinogradov directed great effort to the development of Troitsk as a science city. He initiated very many significant infrastructure projects, for which he was conferred the rank of Honorary Citizen of Troitsk in 2018.

Colleagues, friends, and disciples of Evgenii Andreevich heartily wish him all the best on this jubilee birthday and wish him creative longevity, sound health, optimism, and new achievements.

*S N Bagayev, A G Zabrodskii, V N Zadkov,
A A Kaplyanskii, V V Kveder, N N Kolachevsky,
G A Mesyats, A V Naumov, K M Salikhov,
R A Suris, A M Shalagin, I A Shcherbakov*

systemized theoretical models of thermal fields and methods for describing their correlation properties, and demonstrated an unambiguous relation between the resonances in the spectra of the states of thermally stimulated fields of solids and their eigenmodes — polaritons.

Vinogradov and his colleagues investigated in detail specific features of the spectral properties of running and quasi-stationary waves of the common thermally stimulated electromagnetic field in a condensed medium. The consideration of several fundamental problems by fluctuation electrodynamic methods made it possible to clarify the nature of dispersion interactions, energy transfer, and diffraction of fields with different correlation properties at the opening and the properties of quantum systems near solid surfaces.

E A Vinogradov is the author of over 200 scientific papers, one monograph, and 9 author's certificates.

The active scientific, pedagogical, and organizational activity of E A Vinogradov became the basis of the efficient work of the scientific school Wide-Range Optical Spectroscopy of Atoms, Molecules, and Condensed Media, which received the status of the Leading Scientific School of the Russian Federation and was supported in 2010–2020 by RF