

**BRIGHT PHYSICIST AND PERSONALITY OF R. MOLDOVA — ACADEMICIAN
DUMITRU GITSU — LEFT THIS WORLD FOR THAT ETERNAL**



People say that life is a permanent competition with destiny. We may add that this is a competition of many rounds. Academician Dumitru Gitsu often won in these rounds, but the last of this late autumn of 2008 year was lost by him. He could not be on the right side of the hedge even with the help of those “magic” microwave devices, which had been developed under his supervision in the last years. His dead will leave behind an immense empty space in the Academy, in the Institute, and most of all in his family, whom he loved and supported for dear life.

We have lost a Scientist of world-wide recognition and a Great Man of R. Moldova people. He has gone, but he has remained in his activities projected in many dimensions. He has stayed as light remains after its source has disappeared. Academician D.D. Gitsu was a person entirely devoted to science; this was integrated over the course of his life, since people said as late as in remote ages that Science and Art make a Man integer.

Let us be patient and let us follow in sequence some pages of his troublous life full of good works.

Acad. D. Gitsu was born on January 13, 1931 in a family of peasants in village Drepcauti, Bricheni region of Moldova. In hard war- and postwar time accompanied by hunger and shortages, he finished school and graduated from the Kishinev (Chisinau) State University (now it is the Moldova State University). Acad. D. Gitsu began his professional activity in 1954 as a teacher of the State Universities from Balti and Tiraspol; later, in the Kishinev State University. In the late fifties he again went to study in the post graduate course of the Leningrad Pedagogical University (now S.-Petersburg), from which he successfully graduated

in 1961, and defended a thesis of Doctor (Candidate) of Physico-mathematical Sciences. In 1973 he came back to the same University with his Doctor Habilitatus (doctoral) thesis, which he had written in the laboratory open in Chisinau, in the Institute of Applied Physics of ASM. In early sixties, a thirty-years-old Doctor D. Gitsu came back to his motherland, to the Academy of Sciences and brought a new field of investigations - physics of semimetals that complemented physics of semiconductors, which had been already under study at the time in works of academician S.I. Radautsan and other scientists.

Starting with the date of foundation of the Academy of Sciences in 1961 and to his last gasp, acad. D. Gitsu worked in the ASM, where he held the following positions: scientific researcher of the IAP; founder and head of the laboratory of Physics of semimetals, IAP; deputy director of the IAP, General Scientific Secretary of the Presidium of the ASM, Academician-secretary of the Division of physical and mathematical sciences, director of the Center "International Laboratory of Superconductivity and Solid State Electronics", director of the "Specialized Bureau on Solid State Electronics", director of the Institute of Electronic Engineering and Industrial Technologies.

Thus, acad. D. Gitsu belonged to the first generation of physicists, which was formed in the first ten years after the war; having caught a wave of developing physics of those years, due to his genius and perseverance in work, as well as due to his excellent leadership talent, he had mounted the academic Olympus. Together, all those who were the first, made an epoch. Acad. D. Gitsu was among them; so, a part of that epoch has gone with his departure.

Being rich in research talent and tremendous capacity for work, which like two diamonds were polished day by day, acad. D. Gitsu succeeded in very a great deal during 50 years of unremitting research work. Scientific activities of acad. D. Gitsu covered a wide range of domains: physics and technology of semimetals and semiconductors; physics and technology of anisotropic materials; physics of low-dimensional systems; development of electron devices and medical equipments. His fruitful research work has found expression in a great number of scientific publications: more than 500 scientific papers, most of them being published in top scientific journals; 2 monographs; nearly 25 patents.

As a teacher of new generation, acad. D. Gitsu trained more than 35 doctors in science, 6 of them received the degree of doctor-habilitat. J. Goethe once said, "We learn from those whom we love". Everyone who was in contact with acad. D. Gitsu loved him. On this basis, acad. D. Gitsu founded and developed a true scientific school and organized a center for study of transport phenomena and electrophysical properties of solid state; it was recognized and appreciated internationally. In this center, many international links were created and developed through an impressive number of international projects.

Tremendous work of acad. D. Gitsu on institutional development of the ASM inspires with respect. He was the initiator of organization of the "Center of design and development on solid state electronics" in the Academy of Sciences of Moldova. Later, on the basis of this center, there were organized the "Center of automation and metrology" and the "Center of construction of biologic devices", and a little later, the Center "Tehmed". Acad. D. Gitsu was the initiator of organization of the "Cryogenic center"; on its basis, systematic experimental cryogenic researches started in Chisinau. His last deed in institutional development of the Academy was foundation of a new institute in 2006 - the Institute of Electronic Engineering and Industrial Technologies; quite recently acad. D. Gitsu was director of this institute. We can state also that he was one of those personalities of the Republic Moldova who founded the Academy.

In the course of nearly two decades, acad. D. Gitsu was the President of the Union of scientific-technical societies of the Republic of Moldova; he was the Chairman of the Scientific council on defense of doctoral and doctoral-habilitat theses on condensed matter physics; he was a member of the Commission on attestation of scientific personnel and scientific-didactic materials of the National Council for Accreditation and Attestation.

Having arrived to these years, he could have become quieter, he could have just contemplated and admired... He could, but then he would be another person, not acad. D. Gitsu.

His considerable contribution to science and organization of researches were appreciated through distinctions and honorary titles on the national level. In 1976 he was elected a correspondent member of the ASM; in 1984, academician of the ASM. He was decorated with the "Order of the Republic", with other orders and medals; he was "Emeritus Man of Science" of Moldova, and a laureate of the State prize of the Republic of Moldova in science and engineering.

As a scientist of the international level, acad. D. Gitsu was decorated with international honorary titles and distinctions. He was an honorary member of the Tsiolkovskii Russian Academy of Cosmonautics, a member of the International Academy of Thermoelectricity; he was conferred with the title "Doctor Honoris Causa" of three Universities from Romania and the Republic of Moldova; he was a member of the editorial board of the international journal "Thermoelectricity", of the Moldavian Journal of Physical Sciences. Acad. D. Gitsu was decorated with medals of exhibitions of inventions in Brussels and Geneva for many times.

In addition to the research talent, the nature was generous to acad. D. Gitsu while gifting him with human qualities being defined as a decent sort of man. Kindness, decency, intelligence, ability to esteem true values - these are only some qualities of lots and lots due to which acad. D. Gitsu will live forever in memory of his heartsore relatives, friends, and colleagues, in memory of everyone with whom he worked and whom he sincerely loved, because acad. D. Gitsu was a sincere and honest person. He believed that one can live for long with true persons and through them. Acad. D. Gitsu was a true man, and his name will live for long.

Let us make a grateful bow to this great man of our people; let his memory always dwell with us.

Academician V. Kantser