

52nd IAA HISTORY OF ASTRONAUTICS SYMPOSIUM (E4)
Memoirs & Organizational Histories (1)

Author: Mr. Vladimir Sudakov
NPO Energomash, Russian Federation

Mr. Vitaly Serikov
NPO Energomash, Russian Federation

ACADEMICIAN V.GLUSHKO – OUTSTANDING RUSSIAN SCIENTIST AND DESIGNER OF
ROCKET ENGINEERING. TO 110 ANNIVERSARY OF BIRTHDAY

Abstract

Valentin Glushko was the founder of Russian (Soviet) rocket space engineering, pioneer and creator of the domestic rocket-and-space technology. He designed the world's first electrothermal rocket engine ERD (1928-1933), the first Soviet liquid-propellant rocket engine - ORM (1930-1931), the family of RLA rockets operating with liquid propellant components (1932-1933), powerful liquid propellant engines installed on first geophysical rockets and on practically all domestic rockets launched up to the present time. Glushko's engines put into space orbit the first Earth satellite as well as subsequent ones, the spacecrafts with Yury Gagarin and other cosmonauts on board. Those engines also supported flights to the Moon and other planets. According to his ideas and under his leadership the unique reusable rocket space system "Energia-Buran" was designed, developed, and successfully launched, the base module of "Mir" long-life orbital station was created, etc. V. Glushko as chief and general designer of rocket engines and rocket systems made world renowned activities in practical cosmonautics, also he made valuable personal contributions to world science. His long standing works on fundamental Reference Book for thermal constants, thermal dynamic and thermal physical properties of the various substances (1956 – 1982, 40 books total) were highly acknowledged all over the world. The Reference Books were translated abroad, and currently many scientists and engineers use them as handbooks. For several decades V. Glushko performed active work as the head of the Scientific Council at the Presidium of the Academy of Sciences of the USSR for "liquid-propellant fuels" issues. He also enlisted to these works the numerous scientific and educational institutions of the whole country. He was an Active Member of International Academy of Astronautics, chairman and member of many scientific councils. He was the editor-in-chief of three editions of the "Cosmonautics" encyclopedia (1968, 1970, 1985) in our country.