PERSONALIA

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Yuriĭ Tsolakovich Oganesyan (on his seventieth birthday)

Yuriĭ Tsolakovich Oganesyan, brilliant physics experimenter, member of the Russian Academy of Sciences, was born on April 14, 1933. He is well known for his work on the physics of the atomic nucleus and nuclear reactions, and experiments on the synthesis of new elements of Mendeleev's periodic table and analysis of their properties.

Oganesyan's entire life is closely tied with the Joint Institute of Nuclear Research (JINR), Dubna, to which he was assigned after graduating from the Moscow Engineering Physics Institute in 1956. There he went all the way up from a young engineer heading the start-and-adjustment group of the accelerator to Director and Science Head of the G N Flerov Laboratory of Nuclear Reactions, presented and defended his PhD and later DSc theses, and gained the status of Professor and corresponding member of the Russian Academy of Sciences. He made three discoveries, produced eleven inventions, and authored a monograph and more than 250 research papers.

Yu Ts Oganesyan formulated the basic principles of synthesizing transfermium elements in reactions of 'cold fusion' and together with co-workers conducted fundamental experiments on synthesizing elements with Z = 100 - 108. One of these elements — No. 105 — was assigned the name 'dubnium' by the International Union of Pure and Applied Chemistry. To study increasingly heavy nuclei, Yu Ts Oganesyan launched a program of synthesis of very heavy isotopes in fusion reactions of calcium-48 with actinide targets and worked on designing and building precision experimental setups. In 1999–2002 these reactions yielded for the first time elements with Z = 114 and 116, whose decay properties provided direct proof of the existence of the 'island of stability' for very heavy elements.

Oganesyan's name is inseparable from the development of several generations of heavy-current accelerators of heavy ions with record parameters (U-200, U-300, U-400 and U-400M). A unique research facility had been created on the basis of the cyclotron complex and present-day experimental equipment (kinematic separators and 4π -spectrometers of charged particles, neutrons, and γ -quanta); this complex sustains the leading position of JINR in a number of research fields in nuclear physics.

Yu Ts Oganesyan continues to work fruitfully, retaining his leading status in heavy ion physics and organizing efficient collaboration with the leading laboratories of Europe, Asia, and America. A unique accelerator complex for experiments with radioactive beams is being created in Dubna under his direct guidance; also, super-modern experimental facilities are in the design and assembly stage, and promising world-class research programs are being formulated and implemented.

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Yuriĭ Tsolakovich Oganesyan

Yu Ts Oganesyan pays careful attention to incorporating scientific achievements into practical use. Under his supervision, unique high technologies were developed at JINR for creating novel materials and producing radioactive isotopes for medical applications and ecology. As the Chairman of the Scientific Council of the Russian Academy of Sciences on Applied Nuclear Physics, Oganesyan is a coordinator of applied research in the leading nuclear-physics centers in the country.

Fostering new generations of research scientists is constantly at the focal point of Oganesyan's attention. He heads the Affiliate Chair of Experimental Methods of Nuclear Physics of the Moscow Engineering Physics Institute, and chairs the PhD and DSc Theses Council in Dubna. Among his students from Russia and JINR member states, six hold DSc and more than 20 PhD degrees.

Oganesyan's research achievements have been rewarded with the USSR State Prize (1975), the I V Kurchatov Prize (the USSR Academy of Sciences, 1989), the G N Flerov Prize (JINR, 1993), the A von Humboldt Prize (Germany, 1995), the Lisa Meitner Prize (European Physical Society, 2000), the MAIK Nauka/Interperiodika Prize (2001), and state decorations — the Red Banner of Labor Order the "Sign of Honor", the "Friendship between Peoples", and the "For Services to Fatherland, Fourth Class" orders. He has also received orders awarded by JINR member states.

For many years Yu Ts Oganesyan served as a member of editorial boards of *Journal of Physics, Nuclear Physics News International, Il Nuovo Chimento, Fizika Elementarnykh Chastits i Atomnogo Yadra [Physics of Elementary Particles and Atomic Nuclei*], and *Particle Accelerators*. He also holds membership in the Academic Councils of the Main National Accelerator Laboratory for Ions Research (GANIL, France) and the Institute of Physics and Chemistry Research (RIKEN, Japan).

Yu Ts Oganesyan was elected Foreign Member of the Serbian Academy of Sciences and Arts (1995), and honoris causa of Goethe University (Frankfurt-am-Main, Germany, 2002) and Messina University (Italy, 2002).

As Oganesyan's colleagues and friends, we wish him happy 70th birthday with all our hearts and wish him excellent health and further outstanding achievements in science.

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