



„Lietuvos fizikos žurnalo“ redakcija visų Lietuvos fizikų vardu sveikina žymiausią Lietuvos fiziką akademiką prof. Jurą Poželą jo garbingos sukakties proga, linkėdama sėkmės įgyvendinant naujas idėjas ir sumanymus, neblėstančios sveikatos ir ilgiausių metų mokslė.

Toliau šiame numeryje spausdinamas vienas naujausių akademiko Juro Poželos straipsnių.

On December 5, 2010, prof. Juras Požela celebrated his 85th birthday. Juras Požela is one of the most outstanding personalities in Lithuanian scientific community. He is a prominent physicist, organizer of science and public man, the founder and also the first and long-time director of the Semiconductor Physics Institute, a leading academic research institution in Lithuania and an important international science centre. Prof. J. Požela was vice-president and president of the Lithuanian Academy of Sciences for many years, and also the former member of the Parliament of Lithuania.

His life in and devotion to science could be a good example to those who are just starting their scientific carrier. His versatile activities in research, science management and education contributed much in creating a society that recognizes a system of values based on the knowledge and scientific evidence rather than on pseudoscientific, ideologized or mythologized doctrines. Because of his always clear and independent standing, he often used to help his colleagues and friends to answer questions posed by turbulent times we lived in.

As a young scientist, Juras Požela had an opportunity to be a disciple of the distinguished Russian physicist A.F. Ioffe. It was at the Ioffe institute in Leningrad where his interest to the semiconductor physics was developed – a research field whose impact on the advent of contemporary high-technology society can hardly be overestimated. All his life Juras Požela has been faithfully and enthusiastically working in this field of research. His numerous scientific articles and monographs devoted to hot electrons, plasma and current instabilities in semiconductors, nanostructures, high speed transistors and electromagnetic radiation detectors markedly influenced those fields of research and were internationally recognized. He has published over 400 scientific papers and 9 books including: *The Physics of High-Speed Transistors* (Plenum, New York, 1993), *Plasma and Current Instabilities in Semiconductors* (Pergamon, Oxford, 1981), *The Gunn Effect* (Sovetskoe Radio, Moscow, 1975), *Hot Electrons* (Mintis, Vilnius, 1971). J. Požela was also Vilnius University professor and supervisor of almost forty doctoral theses. For the last twenty years he has been a dedicated member of the World Federation of Scientists and supporter of International Center for Scientific Culture – World Laboratory which promotes science in the developing countries.

Editorial Board of the Lithuanian Journal of Physics on behalf of all Lithuanian physicists congratulates prof. Juras Požela on his anniversary wishing him all the success in realization of his new ideas, unfailling health and yet long life in science.

Further in this issue we present one of his most recent papers.