

Philosophy and one council on conferring scientific degrees of candidates of science at TPU and one Doctor council at Tomsk state university of control systems and radio electronics (TSUCSRE) as well as the head of State certification commission on specialty «Design and technology of computer facilities» in TSUCSRE.

In 1996 A.M. Malysenko was elected a corresponding member of the Academy of electrotechnical sciences in Russia and in 2002 – a member of International academy of science of high school.

A.M. Malysenko was rewarded with the order of Friendship, medals «For work distinction», «For valorous work. In commemoration of 100<sup>th</sup> anniversary of V.I. Lenin», «Veteran of work», a sign «Honorary workman of Russia higher education» as well as non-governmental medals: «For service for the country» of Political consultative centre of RF and «100 anniversary of Russian labor unions» of Russian independent labor union

Federation for long-term fruitful training, scientific, methodological and educational work in High school. He was conferred titles «European professor of engineering high school», «Honorary professor of the Tomsk polytechnic university». He was rewarded with the medal of the II degree «For merits towards the Tomsk polytechnic university» for contribution to the university development and medal «Tomsk is 400» for merits towards Tomsk. .

According to the results of work for 2001 and 2005 in the contest of the university faculty A.M. Malysenko was awarded «Professor of the year».

The team of the faculty of automatics and computer engineering, his colleagues at the department of integrated computer-driven control systems congratulate professor Aleksander Maksimovich Malysenko on anniversary and wish him new successes in work, good health, happiness and prosperity.

### PROFESSOR V.I. GONCHAROV IS 70



Valeriy Ivanovich Goncharov, professor of the department ACEF of TPU was born on 15<sup>th</sup> of August, 1937 in Altai. He spent his school years in very beautiful places in the south of Kemerovo region in Gornaya Shoriya. His parents worked in electric communication system – at radio and telegraph. It may be influenced the choice of specialty: in 1955 V.I. Goncharov entered the radio engineering faculty of TPI. Since that time his life is completely connected with TPI–TPU.

In 1970 Valeriy Ivanovich defended Candidate's thesis, in 1995 he defended the Doctor of Philosophy. Work in High school proposes not only teaching activity but also educational, methodological, social, scientific activities.

Social work was significant in the period of USSR existing. That time V.I. Goncharov was engaged in social work as the most part of people. He was a chairman of union office and secretary of party office of the faculty, a member of party committee of the institute.

Pedagogical work of Valeriy Ivanovich was always variable but there was the main direction around which educational assignments and interests were concentrated. This is automatic control. It includes the basic discipline – theory of automatic control and applied ones: control of robots and robot systems, computer of mechatronic systems, reliability theory, electromechanical and mechatronic systems. The important discipline for modern conditions «Protection of intellectual property and patent branch» refers to this direction. Not only legal matters of creating new engineering solutions but the problems of automatic control and mechatronic systems, the examples of their solution should be disclosed there. Efficiency of discipline may be characterized by figures: for three years by the moment of subject introduction students got patents for useful model, trade mark; applications for inventions are on approval. At occurrence of three-level education V.I. Goncharov delivers the discipline «Modern problems of automation and control» and author's course «Real interpolation method». Active scientific work and work with enterprises under contract helped V.I. Goncharov significantly in development of almost all courses of lectures. It is not only broadening of book interpretations but also formation of his own view of problems and their solutions that student always feel.

Scientific interests of professor V.I. Goncharov are connected with construction of automatic control systems of different objects. Doctor of Philosophy «Real interpolation method in problems of automatic control» prepared in this research area was referred to the most significant and interesting theses of 1996 in Bulletin of Higher certification commission.

In recent years scientific interest of Valeriy Ivanovich is connected with construction of perspective self-adjusting control systems regulators of which may determine automatically on the basis of real interpolation method the changes of control object parameters and compensate their influence. As a result of studies the computing method of robust control systems and algorithm of regulator self-adjustment were developed. Novelty was confirmed by patents for an invention and useful model. Studies in this direction obtained support of

Russian fund of fundamental investigations in the form of two-year grant 2005–2006. V.I. Goncharov is the author of more than 100 scientific works including 2 monographs and 4 teaching aids.

A part of works of V.I. Goncharov was carried out under agreements with ЗАО «EleSi» where software and hardware of self-adjustment of pressure control system for oil-trunk pipelines were developed on the basis of carried out studies. First regulator was made in 2005 and delivered to one of main pipelines of «Transneft». By 2007 a number of such regulators was brought up to seven. At present the second device for serial production – hardware and software complex for automatic and automated adjustment of control system regulators operating by algorithms of real interpolation method is developed in «EleSi».

Since 2005 TPU has active scientific and educational contacts with industrial park BIPF of Republic of Korea on the basis of results obtained by scientific group under the direction of professor V.I. Goncharov: the International laboratory of mechatronic was developed in TPU at the suggestion of Korean side; two contracts were fulfilled and the third is successfully implemented; contracts stipulating student and professor change were signed; the perspectives of training graduates of ACEF for working at Korean enterprises-partners are considered; the contract on gratuitous assignment of equipment on sum more than 1 million rubles by industrial park BIPF within the bounds of Innovation educational program was prepared. Next year the Korean language study is planned in TPU for the students who would like to participate in cooperation with Korean companies.

The results of studies of research workers of V.I. Goncharov scientific group were reported recently on conferences in the USA (Las-Vegas), Poland (Wroclaw), Republic of Korea (Ulsan, Puchen), China (Wuhan). Some of these forums are organized on regular basis therefore invitation became regular as well.

V.I. Goncharov awarded with a sign «Honorary workman of higher education in Russia», medal of TPU of the first degree «For participation in development of the Tomsk Polytechnic University»; he is academician of International academy of informatisation.