# MAMEDOV YUSIF ABULFAT OGLU

**(commemorating the 60-th annivers)**

Y.A. Mamedov was born on Yanuary 24, in 1950 in Destegird settlement of Zengezur territory of Sisian region. In 1966 he finished the secondary school with gold medal and joined the mechanics-mathematics faculty of Azerbaijan State University. Y. Mamedov took lessons from the outstanding mathematicians of that period. He becomes one of the active students of student scientific socity and his interest to mathematics science increases still more.

When he was in the fifth course, on the base of his report that was awarded by a diploma he prepares his first paper and publishes it in 1971 in the authoritative journal "Differential Equations".

In 1971 Y. Mamedov graduates from the University and gets a first honours degree and stays at "physical equations" chair as an assistant. In 1974, in Defence Council of mechanics mathematics faculty of Azerbaijan State University he defends his PhD thesis on the theme: "Well-posed one-dimensional problems and analytic representation of their solutions". This thesis was highly appreciated for its scientific level and practical importance by famous specialists.

In 1979 Y. Mamedov was selected an assistant professor, in 1991 a professor at the chair of "physical equations".

In 1992-1993, Y. Mamedov works as a professor at Istanbul Technical University in Turkey. At the end of 1973 he returns to Baku and is selected a head of "physical equations" chair at Baku State University and a dean of "applied mathematics and cybernetics" faculty. In 2004-2006 he works as a first pro-rector and a pro-rector on scientific works at Baku State University.

In 2006 Y. Mamedov was appointed a rector of Azerbaijan State Pedagogical University.

As a researcher, Y. Mamedov's activity area is very rich and wide. Differential equations and investigation of important problems of mathematical physics is in the base of his scientific research.

Y. Mamedov develops the traditions of scientific school created by acad. M. Rasulov in the field of differential equations and mathematical physics.

At the beginning of seventies he has got some scientific results of great practical value in the well-posed problem of one-dimensional Cauchy problem for typeless variable equations and mixed problems that were highly estimated by famous mathematicians.

Beginning with the end of seventies, Y. Mamedov is engaged in non-regular spectral in Birkhoff and Tamarkin sense and appropriate mixed problems. Systematic

researches in this direction bring him successes and the important scientific results received in this field alongside with the outstanding Russian scientists as A.A. Shkalikov, A.P. Khromov belongs to Y. Mamedov as well. In his papers, regularity, quasi-regularity and normality problems for rational bundle of differential operators are studied and the expansion of functions in eigen and adjoint elements of these operators was first given in his papers.

For the first time, Y. Mamedov has shown the existence of infinite order eigen numbers for degenerating ordinary differential operators and given the notion of regularity, quasi-regularity and normality of eigen numbers set in the vicinity of finite limit points.

All these investigations were generalized in his Doctor's degree thesis "Investigation of spectral problems for a system of general ordinary differential equations and the ground of the residual method for appropriate mixed problems" that he defended in 1990 at specialized dissertation council of Tbilisi mathematical Institute. Y. Mamedov continues his investigations in the directions whose theoretical base was created by him and in 1991-1998 he obtains some scientific results of practical and theoretical value. Ground of the solution scheme of mixed problems for model equation of the problem of wave propagation in viscous elastic medium, the proof of the existence and uniqueness of the mixed problem for a degenerating parabolic equations and finding the analytic expression for its solution, the investigations on dynamics of laminated fluids are among the applied importance investigations. Y. Mamedov solved a classical problem on eigen numbers of a strong complex density function Sturm-Liouville equation by a new and original method and found the asymptotics of eigen numbers in the form of analytic density function. He gave a criterium of arbitrary order quasiregularity of second order ordinary differential equations expressed by the coefficients.

Professor Y. Mamedov is the author of more than hundred papers published in authoritative scientific journals of the world and the Republic. 13 PhD and 1 Doctors thesis were completed under his guidance.

For long years, prof. Y. Mamedov has been a co-chainman of defence Council at BSU and the Institute of Mathematics and Mechanics of NASA. At present he is a chairman of the defence council at Azerbaijan State Pedagogical University.

In 2005-2008, Y. Mamedov has been a chairman of expert commission of Higher Certificate Commission by the specialities mathematics and mechanics at the President of the Republic. Professor Y. Mamedov is a member of Azerbaijan Committee of "Ethics of scientific unions and technologies" of the Colleage of Ministry of Education, UNESKO and a chairman of the Coordination Council on continuous pedagogical education at the Ministry of Education. Y. Mamedov's scientific, pedagogical, organizational activity, his theoretical and applied value results obtained in mathematics were highly appreciated by the government and in 2000 he was awarded the name "honoured science worker" and in 2001 he was selected a corr. member of National Academy of Sciences of Azerbaijan.

By the decree of the President of Azerbaijan Republic, in 2010 Y. Mamedov was awarded by the "Glory" order.

We congratulate the outstanding mathematician, capable organizer of science and education, the rector of ASPU, a honoured science worker, a corr. member of NASA, professor Y.A. Mamedov on the occasion of his 60-th anniversary, wish him a sound health, inexhaustible energy in his scientific and organizational activity.

**A. D. Gadjiev, J.E. Allahverdiyev, T.A. Aliev, F.A. Aliev**