# 80 Anniversary of Prof. Mikhail Matveev, Ph.D.

Prof. Matveev was born in June 1946. He graduated from the Sofia University "St. Kliment Ohridski", Faculty of Physics, in 1971 with a master's degree in Nuclear Physics. In 1984 he defended his Ph.D. thesis on "Optimized Criteria for Heart Diseases Detection Based on ECG and Clinical Data". In 1986, Mikhail Matveev became an Associated Professor, and since 2006 he has been a full professor at the Central Laboratory of Biomedical Engineering and the Institute of Biophysics and Biomedical Engineering, Bulgarian Academy of Sciences (BAS).

During the years Prof. Matveev has taken a number of leading positions – Head of Mathematical Modeling Department at the Computing Center of the Ministry of Industry; Head of Technological Innovations Department at the Presidium of the Medical Academy; President of General Assembly of Scientists at the Centre of Biomedical Engineering, BAS; Director of the Centre of Biomedical Engineering, BAS; Member of the General Assembly of BAS; Deputy Director of the Institute of Biophysics and Biomedical Engineering, BAS, etc.

The research interests of Prof. Matveev are in the field of biomedical engineering; medical microprocessor systems and devices; processing and analysis of biomedical signal and data; basic sciences in cardiology; pattern recognition; medical decision support systems and medical decision making. The scientific results achieved by him are summarized in 3 monographs, over 150 papers in peer-reviewed journals, over 60 participation in international and national conferences.

Prof. Matveev has 3 patents and more than 60 implemented innovations, including: device for screening analysis of the heart activity in newborn; ECG screening analyzer; device for haemodynamic parameter computation by marker dilution; microprocessor system for vectorcardiogram processing; microprocessor analyzers of forced expiration function; microprocessor analyzers of electroencephalograms – laboratory and clinical versions; microprocessor electrocardiographs; computer-aided central monitoring station; high resolution wireless ECG and VCG data acquisition systems; microcomputer expert systems in intensive care and for clinical examinations; program packs for data and signal analysis; program packs for decision support systems in medicine; methods for evaluation of autonomic cardiac control; method for assessment of the infarct size from high-resolution ECG; screening models for cardiac risk evaluation in emergency abdominal surgery, etc.

Prof. Matveev has supervised 13 Ph.D. students and 6 diploma students, as well as has given lectures on "Expert systems in medicine"; "Information technologies in medicine"; "Processing of Biomedical Signals and Data" for students from the Faculty of Electronics, Technical University – Sofia, Bulgaria.

Prof. Matveev has been a member of the European Society for Computing and Technology in Anaesthesia and Intensive Care; International Federation of Medical and Biological Engineering; American Heart Association; European Society of Cardiology; Heart Failure Association of the ESC; European Hearth Rhythm Association; European Association for Cardiovascular Prevention and Rehabilitation; Bulgarian Society for Biomedical Physics and Engineering; Union of the Physicists in Bulgaria; Union of Bulgarian Mathematicians. He has been a long-standing Chairman of Section on Biomedical Engineering of the Union of Scientists in Bulgaria.

Prof. Matveev has received a lot of awards for his scientific and applied research activity, among which "Excellency Award" of the Ministry of Health for the development of an ECG selector; "Honourable Inventor" from Ministry of Science and Technologies; Diploma and Prize for "High Scientific Achievements" from the Union of Scientists in Bulgaria; "Emeritus Fellow" of the European Society of Cardiology; Emeritus Fellow of the Union of Scientists in Bulgaria, etc.

Prof. Matveev has been a long-standing Chief Editor of the International Journal Bioautomation and a permanent reviewer for many scientific journals, including: Physiological Measurement; Physics in Medicine and Biology; Measurement Science and Technology; Inverse Problems; Artificial Intelligence in Medicine; World Journal of Emergency Surgery; Biomedical Engineering On-Line; International Journal on Bioautomation, etc.

***The Editorial Board of International Journal Bioautomation wishes a lot of health and further achievements to Prof. Matveev!***

***Happy anniversary!***