

## To the 35th anniversary of the Institute of Mathematics and Computer Science of the Academy of Sciences of the Republic of Moldova

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In 1999 the Institute of Mathematics and Computer Science has celebrated its 35th anniversary.

During years of its existence the institute proved to be a centre of advanced investigations. The results of its researchers and specialists wonned the recognition of scientific community, covering different fields of mathematics and computer science: algebra, logic, geometry, topology, differential equations, mathematical modelling and optimization, numerical methods, theory of probability, programming and artificial intelligence, advanced information technologies.

In 1961, at the same time as the Academy of Sciences of Moldova, the Institute of Mathematics and Physics was organized, with the Section of Mathematics consisting of six mathematicians.

On April 14, 1964, the Institute of Mathematics with Computer Centre was organized. In 1998 the Institute of Mathematics was transformed into the Institute of Mathematics and Computer Science.

When the institute was founded, one of primary problems was the training of specialists of high qualification. Many graduates of higher schools, mostly of the Kishinev State University, that showed aptitude for research were given employment to the institute and sent for post-graduate study into scientific centres of Moscow, Novosibirsk, Kiev etc.

Most of them were orientated towards new scientific directions – applied mathematics and computer science – the fields which could influence directly the solution of a series of problems of national economics,

such as modelling of economic processes, elaboration of information systems etc.

At that time, on the initiative of the institute's founder Member of the Academy of Sciences of Moldova V. Andrunakievich, in collaboration of rather young but already having some experience and success scientists – Prof. V. Belousov, Cor. m. I. Gohberg, Dr. A. Kuznetsov, Acad. K. Sibirsky and with the help of some scientific centres of Russia, Byelorussia, Ukraine, the nucleus of researchers in the field of algebra, functional analysis, qualitative theory of differential equations and mathematical logic was formed. After years these groups developed into scientific schools recognized in the world.

Since the first years of existence of the institute a particular role was played by Computer Centre, which was a pioneer of promoting computer science in economics of the republic and a source of specialists for computer centres of ministries and enterprises of Moldova.

Training of postgraduates was and continues to be one of the most important activities of the institute. Its researchers and postgraduates supported 210 Doctor theses and 21 Doctor habilitat theses, having provided lecturers for universities and other research institutions of Moldova. The institute also contributed to providing specialists with the scientific degree of Doctor of Sciences for other countries: Algeria, Bulgaria, Germany, Ukraine, Uzbekistan, Vietnam etc.

Researchers of the institute are authors of about 100 monographs, 16 monographs (including translation of some ones published earlier in Moldova) were published by prestigious scientific publishing houses. Scientific works of the researchers Acad. V. Andrunakievich, Prof. V. Belousov, Acad. Yu. Ryabukhin, Acad. K. Sibirsky, Prof. V. Cheban, Prof. M. Ratsa, Prof. D. Lozovanu, Dr. h. D. Solomon were awarded by the State Prize of Moldova in Science and Technology, the most valuable award of the country.

The State Prize for Youth in Science and Technology was obtained by Cor. m. V. Arnautov, Dr. G. Bostan, Dr. M. Marichuk, Dr. G. Magariu, Prof. N. Vulpe, Dr. V. Vizitiu, Prof. V. Soltan,

Prof. M. Ursul, Dr. A. Andrunakievich, Dr. V. Ufnarovski, Prof. G. Chekanu, Dr. S. Comanescu, Dr. V. Sibirsky, Dr. h. D. Solomon, Dr. A. Kolesnik, Dr. V. Dragalin, Dr. A. Corlat, Dr. I. Grama, Dr. I. Verlan.

The publishing activity of the institute is rather vast.

Besides the mentioned monographs, the following periodicals were published: “Mathematical researches” (“Matematicheskie issledovaniya”) – 127 issues, “Applied mathematics and programming” (“Prikladnaya matematika i programmirovaniye”) – 15 issues, “Mica bibliotecă a elevului. Matematică și Informatică” – for pupils interesting especially in mathematics and computer science – 15 issues.

Published by the institute journals “Buletinul Academiei de Științe a Republicii Moldova. Matematica” and “Computer Science Journal of Moldova” are distributed in more than 160 scientific centres and universities of 46 countries. Together with traditional relations with centres from the former Soviet Union countries, for recent years the institute has established collaboration with scientific centres and universities of Romania, Italy, France, Canada, Sweden, Germany and others, with international scientific foundations INTAS, NATO, UNESCO etc.

Within the frameworks of the institute there function two Specialized Academic Boards: for conferring the scientific degree of Doctor habilitat of Sciences in the field of algebra, logic, number theory, geometry and topology and for conferring the scientific degree of Doctor of Sciences in the field of computer science.

A part of the institute is the Chair of Informatics and Computer Technics, which trains postgraduates from research institutions in this field. The Centre of Information Technologies of the institute maintains the functioning and development of the computer network of the academy and the connection of all the institutions of the Academy of Sciences of the Republic of Moldova with the network Internet.

Difficulties of the transition period caused serious damage to the development of science, in particular, mathematics and computer science, one of grave consequences being the specialists drain. In spite

of this, the Institute of Mathematics and Computer Science continues to be the most important centre of mathematical investigations in the country, keeping the nucleus of researchers and the spirit of devotion to science.

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