



*Academician of the Academy of Sciences of MOLDOVA*

*MITROFAN CHOBAN*

*at 70<sup>th</sup> year anniversary  
January 5, 2012*

**A TRIBUTE TO**  
**Mitrofan M. CHOBAN at his 70-th anniversary**

The Romanian Society of Applied and Industrial Mathematics - ROMAI is very honored to celebrate one of its most distinguished members, Academician Mitrofan M. CHOBAN, at his 70-th anniversary.

Professor Choban was born in the village Copciac, Tighina county, Moldova, on January 5, 1942. He attended the courses of the primary school in his native village. Then, in 1959, he finished his high school studies at the high-school from village Volontiri. In 1960 he enrolled at the Tiraspol State Pedagogical Institute (Moldova). Since 1963 he attended the courses of the Faculty of Mathematics and Mechanics of the State University "M. Lomonosov" of Moscow. He brilliantly graduated this Faculty in 1967. Here he attracted the attention of the famous and exigent teaching staff. He was recommended to Professor A.V. Arhangel'skij, who marked his whole evolution as a mathematician, so that at the beginning of year 1967, being yet a student, he published a valuable paper in the prestigious journal *Sovietic Mathematiceskij Doklady* (see *Sov. Math. Dokl.* 8, 1967, p. 603-605). He was privileged to study and work in the prestigious collective of researchers in topology, brilliantly dominated by the great personality of A.N. Kolmogorov. A year after his graduation of the faculty he has begun preparing his Doctor's Degree - the chosen specialty being Topology - at the State University "M. Lomonosov" of Moscow. He graduated in 1970 the Ph.D. in Mathematics with the thesis "Relations between classes of topological spaces", his adviser being Professor A.V. Arhangel'skij. In 1980, he became Dr. Sc. in Mathematics with the thesis "Set-valued mappings and their applications" (scientific consultant again being A.V. Arhangel'skij). In 1995, he was elected corresponding member of the Academy of Sciences of Moldova. Then, in 2000 he was elected Member of the Academy of Moldova, the highest forum of Moldavian spirituality and the highest recognition which a scholar may receive.

Professor Mitrofan Choban started his didactic career at the Tiraspol State University (Moldova), and continuously worked in this university till now. He was in succession senior lecturer at the Department of Geometry and Didactics of Mathematics (1970-1974), associate professor at the Department of Geometry and Didactics of Mathematics (1975-1976), the head of the Department of Geometry and Didactics of Mathematics (1976-1983), scientific secretary of the university (1983-2002), president of the University (2002-2009) and the head of

the Department of Algebra, Geometry and Topology (2009-present). Since 1981, Professor Mitrofan Choban was adviser for PhD Thesis as well as for Dr. Sc. Thesis. He advised 13 doctors of sciences and 4 Dr. Sc.

His teaching activity concerned the courses of "Geometry" as well as of "Set Theory and Topology". He also taught several special courses: Functional spaces, Topological groups, Algebraic theory of automata, Topological universal algebras.

Due his prestige in the world of Mathematics he became: 1. Member of the Editorial Boards of: - Buletinul Academiei de Stiinte a Moldovei, *Matematica*, ROMAI Journal, *Scientific Annals of Oradea University*, Qusigroups and related systems; 2. President of the Mathematical Society of Republic Moldova (1999-present); 3. Vice-President of the Romanian Society of Applied and Industrial Mathematics (ROMAI) (1995-present); 4. Member of the Moscow Mathematical Society; 5. Member of the Romanian Mathematical Society.

The special appreciation of his scientific work brought him several prizes, titles and orders, namely: prize of the All-Union Presidium of the Scientific-Technical Societies (1968), prize "Boris Glavan" of the Komsomol of Moldova, in Mathematics (1974), title Excellent of the High Education of the USSR (1980), order "Gloria Muncii" (Glory of Labor) of the Republic of Moldova (2000), State Prize of the Republic of Moldova (2002), Honorary citizen of the Stefan Voda county, Republic of Moldova (2005), prize "Academician Constantin Sibirschi" (2006), Doctor Honoris Causa of the Oradea University (2006), order "Honor" of the Republic of Moldova (2010).

He attended more than 70 scientific forums: 1) International mathematical congresses (Moscow, Zurich, Berlin), conferences (Moscow, New York, Baku, Sofia, Pitesti, Oradea, Sozopol, Bucuresti, Timisoara, Brasov, Chisinau, Novosibirsk, Tbilisi, Lecce, Iasi, Constanta, Sicilia, Livov, Varna, Borovets, Ohrid), 2) symposiums (Prague, Eger, Burgas, Genova, Marseille), 3) All-Union mathematical conferences and symposiums (Minsk, Moscow, Tiraspol, Chisinau, Livov, Sankt-Petersburg, Novosibirsk, Tobolsk, Tartu), 4) several national conferences.

Having a great prestige in the world of Mathematics, Professor Mitrofan Choban has been invited to lecture by the well-known institutions: Institute of Mathematics and Informatics of the Academy of Science of Bulgaria, the Universities of Oradea, Tartu, Tbilisi, Tashkent, Tsukuba, Bishkek, North Bay (Canada).

Moreover, he was Invited speaker of the forums: V-th Prague Topol. Symp. (1981), Topological Colloq., Eger, Ungary (1983), International Moscow Topological Conference (1979), Soviet-Japan Topological Symposium, Niigata (1991), Workshop on General Topology and Geometric Topology, Tsukuba (1991), Workshop "Well-Posedness in Optimization, Margarita di Liguri, Italy (1991), International Conference on group theory, Timisoara, Romania (1991), Workshop "Well-Posedness in Stability and Optimization, Sozopol, Bulgaria (1993), Conferences on Applied and Industrial Mathematics, Romania (1994-2010), International Congress of Mathematical Society of South Europe, Borovets, Bulgaria (2003), International Conference "Geometric Topology, Discrete Geometry and

Set Theory” in celebration of the centennial of Ljumila V.Keldysh, Moscow (2004), International Conference ”Quality in Formal and non Formal Education”, Iasi, Romania (2010), Centennial Conference ”Alexandru Myller” Mathematical Seminar”, Iasi, Romania (2010), ICTA Islamabad, Pakistan (2011), CAIM - Conferences in Applied and Industrial Mathematics (1993-2011), 8-th International Conference on Applied Mathematics, Baia Mare, Romania (2011), etc..

Professor Choban authored more than 200 papers and 20 books in many branches of Mathematics. He brought important contributions in: Hausdorff’s problem on Borelian classes of sets; Alexandroff’s problem about the structure of compact subsets of countable pseudocharacter in topological groups; Arhangel’skii’s problem on the zero-dimensional representation of topological universal algebras; two Maltsev’s problems on free topological universal algebras; two Michael’s problems about  $G$ -sections of open mappings of compact spaces and of the  $k$ -coverings of open compact mappings of paracompact spaces; Phelps’ problem about the structure of the set of points of Gateaux differentiability of convex functionals (with P.Kenderov and J.Revalski); Tichonoff’s problem about well-posedness of optimization problems in the Banach spaces of continuous functions (with P.Kenderov and J.Revalski); Confort’s problem about Baire isomorphism of compact groups; Pasynkov’s problem about Raikov completion of topological groups; Arhangel’skii’s problem on metrizability of  $o$ -metrizable topological groups (with S.Nedev); Pelczinski’s and Semadeni’s problems about structure of Banach spaces of continuous functions on special compact subsets of quotient spaces of topological groups.

To all these we must add the contribution brought to the activity of ROMAI, Prof. Mitrofan Choban being involved, as Vice-President, in all the aspects of this activity, from the organization of conferences CAIM, to the editorial activity for ROMAI Journal. If ROMAI succeeded in existing for 20 years, in better or worse conditions from the Romanian institutional framework, this is due in a good measure to Prof. Mitrofan Choban.

He shared Professor’s Adelina Georgescu ideas concerning the necessity of finding ways of collaboration between mathematicians from both sides of Prut, and continuously activated in this sense. The friendship and appreciation that Professors Adelina Georgescu and Mitrofan Chobanu had one for the other were the germs for friendship relations between many Romanian and Moldavian mathematicians. We hope that the tree of these relations will grow with vigor in the years to come.

Prof. Mitrofan Choban is known in Romania as well as in the wide world with his results and his monographs in topology, topological algebraic systems and topological algebras.

We wish to the important and the distinguished mathematician Mitrofan M. CHOBAN many happy years in good health and keep up the good work.

ROMAI DIRECTORY COMMITTEE

## SOME SELECTED PUBLICATIONS OF

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