

IN MEMORIAM
PROFESSOR DOCTOR DOCENT SOLOMON MARCUS,
ACADEMICIAN, MEMBER OF THE ROMANIAN ACADEMY

Marcus Solomon was born on March 1, 1925 in Bacău, in a family of tailors, Sima and Alter Marcus. The merits of his father's participation in the wars of independence and unification were recognized on September 4, 1941, by being awarded the title of war veteran by the Ministry of War.

He attends elementary school in Bacău and also high school, which he finished in 1944, being ranked first of his class. Between 1945-1949 he attends the Faculty of Sciences of the University of Bucharest, Department of Mathematics and obtained Diploma of Merit. In 1950 he begins working in higher education, as a teaching assistant.

In 1956, after presenting his doctoral thesis on „Monotonous Functions of Two Variables”, he becomes a PhD in mathematics.

He goes through all hierarchical teaching levels in higher education, and in 1966 he becomes a professor at the Faculty of Mathematics, University of Bucharest. In 1991 he becomes Professor Emeritus at the Faculty of Mathematics, University of Bucharest, România.

Beginning with April 1993, he is corresponding member of the Romanian Academy, and in December 2001 he gains full membership of the Romanian Academy.

He is also laureate of many awards, including the Prize for mathematics of the Ministry of Education in 1961, the Timotei Cipariu Award for Linguistics in 1964 and the Gheorghe Lazăr Prize for Mathematics of the Romanian Academy in 1967.

One of the most important Romanian poets, Nichita Stănescu dedicated to him the poem „Poetic Mathematics”, included in his book „The Greatness Cold”.

On December 1 2000, on the National Day of Romania, Academician Solomon Marcus receives from the President of Romania the National Order „Faithful Service in the Rank of Commander”. On March 1 2005, because he is considered to be an emblematic personality of Romanian culture, Solomon Marcus receives from prof. Phd. Ioan Pânzaru, Rector of the University of Bucharest, the Diploma of Excellence for his creative merits and head of school.

He conducted extensive teaching and research activities in the field of mathematical analysis, theoretical computer science, measure theory, topology, linguistics, history and the philosophy of mathematical poetry, semiotics, applications of mathematics in natural and social sciences.

His research activity in mathematical analysis and related fields contains remarkable results, most of which follow the trend set by D. Pompeiu, S. Stoilow, M. Nicolescu and A. Froda, in the tradition of the French and Italian school of real analysis and the Polish school of set theory and topology. Solomon Marcus published in this field around one hundred articles in various journals in Europe, North America and Asia.

The articles on real analysis by Professor Solomon Marcus are reviewed in: „Mathematical Reviews”, „Zentralblatt für Mathematik”, „Referativnyi Jurnal”, „Bulletin signaletique” and other journals, by the known authors such as: G. Aumann, F. Bagemihl, E. F. Beckenbach, L. M. Blumenthal, R. P. Boas, Jr., A.M. Bruckner, G. Bruns, R. C. Buck, L. Cesari, E. J. Cogan, A. Csaszar, F. Cunningham, H. Delange, J. Deny, A. G.

Djvarsheishvili, Y. N. Dowker, G. M. Fihntengolț, Froda, G. Marinescu, Ju. T. Medvedev, E. Moldovan, M. Reghis, A. Rosenthal, R. Sikorski, S. Stoilow, R. Theodorescu, G. P. Tolstov, T. Viola, L. C. Young, D. A. Zaharov and many others.

Solomon Marcus is presented and cited in encyclopedias and dictionaries, such as: Encyclopaedia of Mathematics, (Kluwer Academic Publishers, 1988), Encyclopaedia Kibernetiki (ed. V.M. Glushkov, 1975), The Encyclopedia of Language and Linguistics (Pergamon Press, Oxford, 1994), Dictionnaire de Linguistique et des Sciences du Langage, (Larousse, Paris, 1994), Dictionnaire de Linguistique (Larousse, Paris, 1991), Dictionary of Language and Linguistics (London, 1972), Lexikon der Sprachwissenschaft (Stuttgart, 1983), Dictionnaire du Theatre, (Paris, 1980), History of Romanian linguistics (Bucharest, 1978), History of Sciences in Romania. Mathematics, Mechanics, Astronomy (Bucharest, 1981), History of Sciences in Romania. Cybernetics (Bucharest, 1981), History of Sciences in Romania. Linguistics (Bucharest, 1975).

In the field of mathematical linguistics, poetics, semiotics, theoretical computer science and applications of mathematics in natural and social sciences, Solomon Marcus published 38 books (in Romanian, English, French, German, Italian, Spanish, Russian, Czech, Hungarian, Greek, Serbian) and more than 300 articles dealing with: analytical models of language, mathematical modeling of certain semantic, syntactic, morphological and phonological categories. His research focused mainly on the phoneme, the grammatical case and gender, the part of speech, syntactic dependence, textual cohesion and coherence, morphological homonymy, analogies and differences between natural and programming language, topological model of poetic language, and algebraic model of scientific language, mathematical modeling of plays strategy, mathematical models in folklore, some mathematical models of learning, linguistic and mathematical models in visual arts, semiotics of medical diagnosis, metaphors pertaining to artificial scientific language, human-computer communication, diplomatic communication, social and cultural relevance of psychological, physical and mathematical time, symbols in a multidimensional space.

In the last period of his career, Solomon Marcus developed ideas about the transfer of certain notions and results from the field of the infinite worlds to the field of formal languages.

Academician Solomon Marcus, Professor at the University of Bucharest, created in our country, as it is well known, a remarkable school of linguistics and mathematical poetics.

He was member of the editorial board of journals in the fields of mathematics, computer science, linguistics, poetics and semiotics: Annals of the University of Bucharest, Mathematics-Computer Science (editor-in-chief), Cahiers de Linguistique Theorique et Appliquee (Bucharest), Mathematical Reports (Bucharest), Revue d'Analyse Numerique et Theorie de l'Approximation (Cluj-Napoca), Proceedings of the Romanian Academy (Bucharest), Zeitschrift fur Semiotik (Berlin), Foundations of Computing & Decision Sciences (Poznan), VISIO, la revue de l'Association Internationale de Semiotique Visuelle (Quebec), International Journal of Computer Mathematics (London), Bochum Publications in Evolutionary Cultural semiotics, Poetics Today (Jerusalem), Archimedes (Bucharest), Linguistic Studies and Research (Bucharest), Revue Roumaine of Linguistique (Bucharest), Grammars (Tarragona, Spain), Romanian Journal of Information Science and Technology (Bucharest), Fundamenta Informaticae (Warsovia), Eratosthene (Sion, Switzerland), Zeitschrift fur Literaturwissenschaft und Linguistik (Siegen, 1970 - 1994), Poetics (Amsterdam, 1971-1992), Annals of University of Bacau, Mathematics series (2004), Annals of University of Craiova, series Mathematics (2004), Transylvanian Journal of Mathematics and Mechanics.

He participated as a key-note speaker at international scientific conferences or visiting professor at the University of Toronto (1971), Universidad Catolica de Sao Paulo (1990, 1995, 1996, 1997, 1998), where since 1996 he was a permanently visiting professor, University of Buenos Aires (1990), Université de Paris Sud (Orsay, 1991, 1992), Université Laval, Quebec (1992, 1994), Indiana University USA (1993), Ecole des Hautes Etudes en Sciences Sociales, Paris (1993), Warsaw Technical University (1993), University of Auckland, New Zealand (1994), Faculty of Letters, University of Tarragona, Spain (1995), Banach International Mathematical Centre, Polish Academy of Sciences (1996) and many others.

He was Doctor Honoris Causa of the University of Bacău, Constanța, Craiova and Petroșani. He was also granted other honorary titles, such as: vice president of the International Association for Semiotic Studies (1989-1999), honorary president of the Society of Semiotics in the Balkans (2001), honorary member of the Toronto Semiotics Circle, Society of Semiotics in Hungary, honorary member of the Society of Mathematics in Romania, vice president of the Society of Semiotics in Romania.

The editorial board of the *Transylvanian Journal of Mathematics and Mechanics*, whose member you were, bid you farewell, Academician Professor Doctor Docent Solomon Marcus.

Prof. dr. Kecs W. Wilhelm
Chief Editor
Transylvanian Journal of Mathematics and Mechanics