

IN MEMORIAM
PROFESSOR ILIE BURDUJAN



November 10, 1944 - August 04, 2017

In August of this year, Professor Ilie BURDUJAN died after a long and heavy illness. He was an eminent representative of the Romanian culture and spirit, which brought an important contribution to modern algebra, to the theory of differential equations, and to the education of new generations of highly-qualified specialists.

Ilie Burdujan was born at November 10th, 1944, in village Pîrscov, County Buzău, Romania. In 1962 he finished his high school studies and enrolled at the *Faculty of Mathematics and Mechanics of the "Al. I. Cuza" University of Iași*. During the student days he was influenced by the famous and exigent professors and scholars as Academicians M. Haimovici, R. Miron as well as Professors I. Creangă, I. Popa, A. Haimovici, Gh. Gheorghiev, N.Negoescu, V.Crucianu and others. Soon he became one of the best students of the Faculty of Mathematics and Mechanics of the University. In 1968, after his graduation from the faculty, he begun preparing his Doctor's Degree - the chosen specialization being *Differential Geometry of quasi-groups and loops* - at the "Al. I. Cuza" University of Iași, his main adviser being Professor Gheorghe Gheorghiev. 1977: His thesis "*Continuous and Lie quasigroups and loops and their applications in differential geometry*", for the PhD degree, was defended in 1977 at the "Al. I. Cuza" University of Iași;

The scholar activity and didactic career of Professor Ilie Burdujan could be schematically splitted as below:

- 1968 - 1974: Researcher at the Institute of Mathematics of the Romanian Academy, Iași Branch;
- 1974 - 1975: Researcher at the Institute "Petru Poni" of the Romanian Academy;
- 1975 - 1996: assistant, lecturer, associate professor at the Department of Mathematics, University "Gh. Asachi" Iași, Romania;
- 1996 - 2010: Associate Professor, Professor and head of Department of Mathematics at the University of Agricultural Sciences and Veterinary Medicine, Iași, Romania;
- 2010 - 2017: Professor of the University of Agricultural Sciences and Veterinary Medicine.

In over one hundred research papers, two monographs and ten textbooks, Professor Burdujan has contributed to fundamental knowledge of various areas of mathematics and its applications.

Areas of interests of the Professor Burdujan were:

Differential geometry of quasi-groups and loops, Differential geometry of Cliffordian manifolds, non-associative algebras, Homogeneous Systems in

Yamaguti's sense, systems of quadratic differential equations, Lie semigroups, theory of relativity, relativistic magneto-hydrodynamics, rheology, physics of plasma, applications of mathematics in biology.

Professor Ilie Burdujan was awarded the prize "*Academician Constantin Sibirschi*" (2014) for his contribution in allegorical and qualitative studies of the finite-dimensional polynomial dynamical systems.

Professor Ilie Burdujan gave an enormous number of invited lectures in the Romania and throughout the world, and he helped to organize many mathematical conferences. He was organizer of five editions (2002-2006) of the Annual Symposium on Applied Mathematics in Biology and Biophysics, Iași, and of five editions of the International Conference on Applied and Industrial Mathematics.

Professor Ilie Burdujan was the President of *Romanian Society of Industrial and Applied Mathematics* (ROMAI), between 2009 and 2015, member of *Romanian Society of Mathematical Sciences*, *Romanian Society of Biophysics*, *American Mathematical Society*, the Editor-in-Chief of *ROMAI Journal* (2009 - 2015) and of *Proceedings of the Annual Symposium on Applied Mathematics in Biology and Biophysics* (2002-2006).

A few words related to the activity as President of ROMAI. He was chosen as President in the difficult moment when Professor Adelina Georgescu could not lead the mathematical Society, because of her own disease. He hardly worked to organize the activity between 2009 and 2015, including the annual conferences of ROMAI, (CAIMs) two in Iași.

Professor Burdujan was a very delicate person, an active and responsible man in everything, having a good sense, humor and intelligence. In the memory of his colleagues, he remained as a man of honor and a very good professional, winning the respect and affection of all.

Let the tradition initiated and developed by Professor Adelina Georgescu, and successfully continued by Professor Ilie Burdujan be brightly continued and further developed!

As a message to the succeeding generations, we mention following words of the Academician Octav Mayer: "*It is possible to bring for the great disappeared scientists varied homages. Sometimes, the strong wind of progress erases the trace of their steps. To not forget them means to continue their works, connecting them to the living present*".

Multilateral activity of the Professor ILIE BURDUJAN is better reflected in: [*Professor Ilie BURDUJAN at the age of 70, ROMAI Journal, 10, 2 \(2014\), i-xi.*](#)

The Board of ROMAI.