

Professor Emeritus PhD Eng. Liviu Literat at the 85th Anniversary

In 2013 Professor Emeritus Liviu Literat celebrates his 85th anniversary. His life has been devoted to the development of the chemical engineering and chemistry education in Romania and he is known as the founder of the Chemical Engineering Education in Cluj-Napoca University Center.

He was born on the 9th of September 1928 in Vințu de Jos as the descendant of an old family of priests, teachers and professors who significantly contributed to the development of the national culture and tradition in the Făgăraș County.

Professor Liviu Literat performed his first studies at the Andrei Șaguna College in Brașov and in 1947 became a baccalaureate of the National College George Barițiu in Cluj. His university studies have been performed at two of the top Romanian universities: the Victor Babeș University from Cluj, Faculty of Chemistry, where he graduated in 1951 the Chemistry-physics specialization, and the University of Bucharest, where he graduated in 1963 Chemical engineering within the program of study Technology of Inorganic Materials. In 1966 he became PhD in chemistry with the thesis entitled *Physical-chemical study on some reducing non-stoichiometric aluminum oxides*, working with the Academician Raluca Ripan. These steps of education have been followed by research training and post doctoral studies with Academician Ilie Murgulescu and Academician Costin C. Nenițescu.

Professor Literat Liviu started his academic career at Victor Babeș University from Cluj as teaching assistant (1950) and continued to ascend the steps of the higher education hierarchy. He became Professor in 1974 and head of the departments: Organic Chemistry and Technology (1977-1985), Chemical Engineering (1990-1992), Chemical Engineering and Oxide Materials Science (1992-1995) at Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering. From 1995 he is Consultant Professor and from 2011 he is Professor Emeritus of the Babeș-Bolyai University. As founder of Chemical Engineering School from Cluj, he established several programs of study: Technology of Building Materials (1971), Organic and Inorganic Technology (1977), Science and Engineering of Oxide Materials (1990) and he was the founder of Departments of Chemical Engineering (1990) and Chemical



Engineering and Oxide Materials Science (1993). He put the basis for research and designing activities in chemical engineering at Cluj, for master and doctorate studies, being the first scientific doctorate advisor in chemical engineering from the University Center Cluj-Napoca.

Professor Literat Liviu has gained high recognition from the scientific community for his contributions, both to fundamental and applied research, especially in the fields of material science, chemical engineering and physical-chemistry. These contributions include over 130 scientific papers published in journals, 75 applied research reports, 5 grants, 3 patents and 15 books (university textbooks, treaties, monographs, history of sciences and education). Some of the subjects of his research consist in: heterogeneous catalysis, sorption, extraction, reactions in solid phase, with applications to the study of processes of interface and of nano-systems, synthesis and studies of a new class of refractory oxide compounds with deviation from stoichiometry associated to original contributions to the theory and the concept of the stoichiometry for nanometric oxide systems, establishing new similitude criteria and criteria equations for carriers of electrical load through molecular and convective mechanism both in stationary and transitory regime, development of concepts and application of the dimensional analysis, contributions to the technique of chemical, punctual, qualitative and quantitative analysis of the micro-phases from composite systems.

Professor Liviu Literat was founder member, president and Honorary President of the Society of Chemical Engineering from Romania – Cluj branch, Honorary Member of the Academy of Technical Sciences from Romania, founder member of ASTR – Cluj-Napoca branch, Member of the European Federation of the Chemical Engineering; Society of Chemistry from Romania, Association of Sciences People from Romania "Transylvania" subsidiary of Romanian Academy, Scientific Association of the Engineers and Technicians, National Council of the Engineers and Technicians, member in the editorial board of the Scientific Bulletin of Polytechnic Institute Cluj, *Studia Universitatis Babeş-Bolyai Seria Chemia* and *Romanian Journal of Materials*.

The education, research and management work performed by Professor Liviu Literat reveals an outstanding character who showed a constant commitment to share his energy and wisdom not only to the benefit of the Alma Mater Napocensis community but also to the whole Romanian higher education system.

At the 85th anniversary of the distinguished personality who made history for the chemical engineering education, during more than half of the century, the colleagues from the Faculty of Chemistry and Chemical Engineering of Cluj-Napoca wish to honor his celebration and show him their highest consideration and gratitude. Happy Birthday and Long Life Professor Liviu Literat!

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