

PROFESSOR DOCTOR GHEORGHE MARCU AT THE 80'S ANIVERSARY

In 2006 Professor Doctor Gheorghe Marcu celebrates the 80's anniversary. He was born at 17th of August 1926, in city Ramnicu Valcea, in Valcea County, where his father originally from Salistea Sibiu. His father married with his mother, originally from Craiova, in Ramnicu Valcea too. Gheorghe Marcu followed the grammar and high school in his native town at the "Alexandru Lahovari" high-school, and after the graduation in 1946, he attended to the "King Ferdinand the 1st" University from Cluj, at the Faculty of Sciences, Physics and Chemistry Section. Chemistry was his old hobby from the period of the high-school, at home he installed a small laboratory. In 1951 he married with Maier Teodora, daughter of the priest from a village near Hateg in Hunedoara County. His wife, who was biologist, absolved the university from Cluj too. They live together 51 years, until 2001, when his wife died.



Being student at the IIIth year, for very good results achieved in study, at 2th of February 1949, he was included as preparator too at the mineralogy, and nominated near Professor Eugen Stoicovici, from who he learned to make analyses of the minerals and explorations of the useful minerals.

After the graduation of the Faculty in 1950, he was promoted as assistant and transferred at the Inorganic and Analytical Chemistry Department, where he has the chance to be the student and the closely collaborator for a period of cca. 30th years of Ac. Prof. Dr. Raluca Ripan.

In parallel with the activity at the Department, Prof. Marcu was included as scientific researcher with a half norm, at the Chemistry Research Institute of the Academy, with branch on Cluj, where during his activity he has the following functions: chief researcher (1953), principal researcher (1954), head of department (1964) and the director of the Institute (1970-1990).

During his activity at the Faculty, in 1955 he got the duty to initiate the specialty of Chemistry of Radioactive Elements, when he organized, installed and equipped a modern laboratory of radiochemistry with attachments. After a specialization organized by the State Comity of Nuclear Energy in Bucuresti, he was promoted as lector at the discipline of Chemistry of Radioactive Elements. In 1962 he elaborated and published the first course of chemistry of radioactive elements, republished in a new version in 1971, and recently entitled Radioactive Elements, Pollution of the environment and the risks of the irradiation (1996), and the Introduction in Radiochemistry (1997), published in modern editions. In 1962 he became associate professor after the exam. In the period 1963-1964 he participate to a specialization stage at the United Nuclear Research Institute from Dubna (Moscow) under the guiding of Ac. Flerov in the domain

of the transuranian elements. Afterwards he made stages of documentation and initiation at Nuclear Physic Institute from Rez-Praga (1965) and at the Committee for Nuclear Energy of France at Paris (Orsay) Kronenberg-Strasbourg, Grenoble, Lyon, Saclay and Fontaine aux Roses (1970).

Under the guiding of Ac. Raluca Ripan he defended the PhD thesis (1964), which included the study of the structure of the complex combinations using the radioisotopes with application of iso and hetero wolframats.

At 1st of October of 1972, he has been appointed as titular of the Inorganic Chemistry discipline, and in 1968 he occupied by competition the post of Professor, in which he has activated until he had retired (1991). In this period he published several courses and papers of inorganic chemistry: Chemistry of Metals (1971), Inorganic Chemistry (1981 and 1984) Modern Chemistry of Metallic Elements (1993), Chemical Elements – Sodium (1996), Inorganic Chemistry and Metals and Semimetals (2004).

In the more than 50 years of activity carried out without interruption in the cadre of the Inorganic Chemistry Department, his activity was focused on the major problems in the inorganic chemistry domain, and on the similar problems, like the chemistry of coordinative compounds, the chemistry of metals, of silicates and of radioactive elements, especially the chemistry of polyoxometallates, in this problem he published 2 editions: Chemistry of Coordinative Compounds (1984) and Chemistry of the Polyoxometallates (1997).

Parallel with the didactic and research activity at the Department, Prof. Marcu carried out a vast scientifically research activity in the cadre of the Chemical Research Institute from Cluj.

In his entire activity at the Department of Faculty and at the Chemical Institute he had teach and guided a great number of young personnel, in this way contributing at their scientific and professional forming. In quality as scientific advisor of PhD Thesis, from 1969 until the present time Prof. Gh. Marcu had guide and lead 52 Doctors in Chemistry, with confirmed title.

In the domain of the inorganic chemistry of the coordinative compounds and of the radioactive elements he published 12 books in the Didactical, Pedagogical, Technical and Academic state editions. He also took part from the redaction fellowship of 7 volumes from the Chemical Encyclopedia (1983-1997), redacting 225 terms of specialty.

He has been a co-worker in the solutioning of the 42 national contracts, and four have been international grants (SUA, Rusia, and Ucraina). The results of scientific research are materialized in 276 from wich 234 are papers and 42 are communications, and also 47 patents for technical and scientific researchers.

Initiating new and proper scientific research domains based on fundamental studies, the original results and with novelty character had been materialized in a great number of methods and proceedings with valorous practical applications, which constitute the object of 276 scientific publications in the national and international specialty papers. Most of them had been presented at international congresses.

Paralel with the didactical and scientific activity Prof. Marcu had administrative leader functions at the University, being Decan of the Faculty of Chemistry(1966-1968) Prorector of the "Babes-Bolyai" University (1968-1976) and chief of the Inorganic Chemistry Department(1969-1974) and (1977-1990).

For the scientific activity in 1960 he was awarded with the 1st place by the Education and Teaching Ministry, in 1983 the prize of the Pomorian Academy Gh. Spacu, in 1971with a 2nd class medal and in 1985 he got the title of "Evidentiated University Professor". From 2004 Prof. Gh. Marcu is the member of honor of Salistea city, Sibiu.