

Obituary

Professor Emeritus Ivan Jurković (1917–2014)



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Ivan Jurković, Professor emeritus of the Geology of Ore Deposits at the Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, died peacefully, in his home in Zagreb on 30 December 2014 at the age of 97. He was the leading mineral resource geologist in the countries of the former Yugoslavia where he pioneered both the use of ore microscopy in the study of ore deposits and the understanding of their genesis in the relation to the global tectonic paradigm. He devoted a great part of his time to the community, working tirelessly to develop many projects which promote the public good, education and science, holding a number of important political functions in the Croatian Parliament and government and serving, among others, as rector of the University of Zagreb. With his death, geological science in Croatia lost one of its most outstanding scientists.

Professor Jurković was born on 27 March 1917 in Oguilin in Croatia. He attended elementary school and a gymnasium in Zagreb and entered the University of Zagreb, Technical Faculty (Department of chemical engineering) in 1935 to study chemistry. He graduated in 1939 but became interested in geology and continued his study at the University of Zagreb, Faculty of Humanities and Social Sciences (Department of geology). He received his PhD with a thesis entitled „Mineral parageneses from the Mid Bosnian Schist Mountains with the special reference to gold-bearing mercuran tetrahedrite“ in 1956 and completed his habilitation in 1957 at the University of Zagreb (Technical Faculty).

Professor Jurković became an assistant in the Mineralogical-geological institute of Technical Faculty at the University of Zagreb in 1939, but during the second World War (between 1942 and 1945) he volunteered in this institute under the supervision of professor Miroslav Tajder. From 1945 professor Jurković was employed continuously in the Mineralogical-geological institute (today the Department for mineralogy, petrology and mineral resources of Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb) until his retirement in 1987. He attained the position of an assistant (1945–1957), assistant professor (1957–1959), associate professor (1959–1963) and full professor (1963–1987). From 1965 to 1968 professor Jurković worked in the United Nations as a principal geologist on prospecting mineral resources in Tunisia and additionally in 1966 he became adviser to the United Nations in Benin, Togo and Eastern Morocco. During this time he fulfilled all his duties as a university professor by using his holidays. Professor Jurković served as a rector of the University of Zagreb between 1978 and 1982 and as the president of the Council of the University of Zagreb from 1982 to 1984. The title *Professor emeritus* was conferred on him by the Senate of the University of Zagreb in 2000.

In the optical laboratory of dr. Arnold Cissarz, the former executive officer of the Geological Bundesanstalt in Hannover, who afterwards worked in Belgrad, professor Jurković came into contact with qualitative and quantitative (Berek) ore microscopy methods in 1949. Upon the personal invita-

tion of professor Paul Ramdohr, the most remarkable world mineralogist and specialist in ore microscopy, professor Jurković spent the summer semester of 1957 in his Department of Geology at University of Heidelberg studying polished sections of rare ore minerals from professor Ramdohr's collection. The experience, obtained during collaborative work with dr. Cissarz and professor Ramdohr in ore microscopy, together with field knowledge developed in the 2–3 month long geological field campaigns under the leadership of his mentors professor Luka Marić (Technical Faculty, University Zagreb), professor Mirloslav Tajder (Faculty of Natural sciences, University of Zagreb) and professor Stojan Pavlović (Faculty of Mining and Geology, University of Belgrade), and his field work in Tunisia, laid the foundation for the later remarkable achievements of professor Jurković as a teacher and researcher.

Professor Jurković had a broad knowledge across earth science as a whole. Accordingly, his scientific activity extended over mineralogy, geochemistry, petrology and metallic and nonmetallic ore deposits, but certainly his most important scientific work was in the field of ore deposits and metallogeny. He devoted much of his time to original field work, ore microscopy and chemical analyses in the laboratory which included classical chemical analysis, spectrographic analysis, Debey-Scherrer roentgen analysis, infrared spectroscopy, differential thermal analysis, thermogravimetric analysis, isotopic analyses of oxygen, carbon, sulphur, strontium and lead, fluid inclusion analysis, trace element analysis including rare earth elements, and also electron and proton microprobe analyses. His geological field campaigns were located in Croatia, Bosnia and Herzegovina, Slovenia, Kosovo, Serbia, Macedonia, Greece, Myanmar, India, Pakistan, Indonesia, Egypt, Tunisia, Benin, Togo, Morocco and Venezuela. As an author or co-author, he published 166 scientific papers and 38 professional papers.

The ore deposits which professor Jurković researched in detail and prepared for exploitation include the big copper deposit of Monywa in Myanmar, gold bearing copper deposits in the Indonesian islands of Sumatra and Sulawesi, a Tertiary lead-zinc deposit Oum Geigh in Egypt, lead-zinc-bearing barite fluorite deposits on the El Kef region in Tunisia and lead-zinc deposits at Djebel Azered in Tunisia. He also investigated barite deposits in the Lika, Gorski Kotar and Petrova Gora Mt., copper bearing siderite deposit of Gradski Potok and lead-zinc-bearing siderite deposit Zrin in the Trgovska gora Mt., the hematite ore deposit Bukovica in Petrova gora Mt., the pliocene limonite deposit of Meterize in Trgovska gora Mt., magnetite-hematite occurrences in Adolfovac in Zagrebačka Gora Mt., bauxite deposits in Northern Dalmatia, metasomatic monomineral barite deposits in the Devonian carbonate rocks in the Mid Bosnian Schist Mountains (Tarčin, Kreševo, Kiseljak, Brestovsko, Fojnica, Deževica, Dusina, Sabiljine Pećine, Rostovo), vein mercurian-tetrahedrite-bearing barite-siderite deposits in Mačkara and Mračaj deposits, pyrite-siderite gold vein deposit Baković (Fojnica), silver-bearing zinc-antimony deposit Čemernica (Fojnica), cassiterite-bearing magnetite, pyrrhotite, lead-zinc deposit Vrtlašce (Fojnica), realgar and

orpiment deposit Hrmza (Kiseljak), magnetite hematite, siderite, ankerite, chalcopyrite and arsenopyrite deposit Mačje jame, lead-zinc-copper bearing barite deposits in the Prača region in Southeastern Bosnia, bauxite deposits in the former Yugoslavia and evaporites in the Western Dinarides.

The topics to which professor Jurković made the most important contributions include: detailed mineral, chemical and isotopic analyses of silver and gold-bearing mercurian tetrahedrite and barite, having an important role in the development of the model of ore genesis in the Mid Bosnian Schist Mountains, petrological characterization of palaeozoic rhyolite from the Vranica Mt. and Triassic gabbro-diorite from Radovan Mt. in collaboration with professor Vladimir Majer, the classification of magnezite deposits of Dinarides on the basis of isotopic analyses of oxygen and carbon in collaboration with dr. Jakob Pamić, the first stratigraphic and paragenetic classification of bauxite deposits in former Yugoslavia in collaboration with dr. Krešimir Sakač, stratigraphic division of gypsum deposits in former Yugoslavia in collaboration with professor Dubravko Šiftar. His classification of all the known deposits in the Republic Croatia on the basis of Stille-Bilibin theory was especially valuable. After he retired, professor Jurković remained actively engaged in scientific work and pursued his activities with undiminished energy. In the last 7 years he published 8 scientific papers, being the first author of 6 papers. It should be pointed out that the Mid Bosnian Schist Mountains was an area of special interest to professor Jurković, where he found and described 276 ore deposits and occurrences in the scope of his dissertation. In the last seven years professor Jurković again intensively investigated this area introducing modern analytical methods aiming to provide new insights into the chemistry of ore minerals and the age of the rhyolite as well as to develop the most comprehensive model of the genesis of ore deposits. Until his last breath he worked on this model. He exerted a great influence on the development of metallogeny in all the countries of the former Yugoslavia.

Under the leadership of professor Jurković at Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, the first „school“ for researchers of metallic and non-metallic deposits was initiated. Besides the many courses he taught, professor Jurković introduced a new one „Ore microscopy“, and started, (as a first in the former Yugoslavia), to give lectures related to optical quantitative investigations of opaque minerals in reflected polarized light according to the Berek method. He was also the first in the former Yugoslavia to introduce plate tectonics into his lectures regarding the genesis of ore deposits in the frame of the course „Ore deposits“. He welcomed and mentored numerous students and geologists from Croatia and other countries of the former Yugoslavia, illuminating with stark clarity the fundamental principles of ore deposits. He had a tremendous impact on the learning and professional growth of many geologists. Professor Jurković literally emanated a great experience and enthusiasm in the classroom and was without the doubt the best professor the Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, ever had.

Due to his highly developed sense of responsibility for community, professor Jurković became engaged in numerous activities in addition to his academic work. He was very successful in leadership positions and served as the head geologist and the director of the Institute of Mining and Geology in Croatia (1947–1949), as the head geologist in the Ministry of Ferrous and Nonferrous Metallurgy of the Federal Government of Yugoslavia (1949–1951) and as a counsellor at the federal and republic level for nuclear resources and geological research abroad. Always seeking a new challenge to improve the public good, professor Jurković, together with professor Stjepan Težak, initiated the first Committee for Computing, from which later came the idea to build the University Computing Centre (SRCE) for the University of Zagreb and other research institutions. As the president of the Committee for building four capital cultural institutions in Croatia (1977–1988) professor Jurković significantly contributed to the building of the National and University Library, for which he and professor Andre Mohorovičić laid the foundation stone in 1988. Many other important public projects, including the Bjelolasica Ski Resort, Molecular Biology Centre in the Franciscan Monastery Rožat in Dubrovnik and Astronomical Observatory on Hvar were accomplished due to the enormous energy and labour of professor Jurković. As a rector, he increased the number of postgraduate studies, the number of national scholarships and co-financing for professors from Eastern Europe in the Inter-University Centre of Postgraduate Studies (IUC) in Dubrovnik and organized the construction of the dormitory in the IUC building.

Between 1940 and 2000 professor Jurković realized 83 shorter (one week) or longer official journeys in foreign countries. He visited most European countries, Asia (Myanmar, India, China, Turkey, Philippines, Singapore, Thailand), Africa (Egypt, Tunisia, Nigeria, Benin, Togo, Morocco), South America (Venezuela, Brazil), Middle America (Jamaica, Dominican Republic, Mexico) and North America (Florida, Washington City, Indiana, California, Los Angeles).

Professor Jurković was extremely active in different domestic and foreign scientific and professional societies. He was a member of the Croatian geological society (in one mandate president and member of Executive committee), a member of the Croatian biological society, a secretary and vice-president of the Croatian society of natural sciences, a member of the German mineralogical society, a president of the Norwegian-Yugoslav friendship society, a member of the Society for applied geology deposits, a member of the Union of geosciences, a member and president of the International Committee for study of bauxite, alumina and Al-oxides, a member of the International Association on the genesis of the ore deposits, a member of the administrative board (Executive Committee) of the International Association of the Universities, to mention only a few.

He was a corresponding member of the Croatian Academy of Sciences and Arts (former Yugoslav Academy of Sciences and Arts) from 1963 and became a full member in 1969. He contributed greatly to the advancement of this institution being a member of its Presidium (1969–1972) and

a member of its associations, committees and councils such as the Croatian Crystallographic Association, Geochemistry Committee and acting as the first president of the Scientific Council for Telemetry and Scientific Council for Crude Oil and Gas. From 1973 he became also a corresponding member of the Academy of Sciences and Arts of Bosnia and Herzegovina.

His sense for community was also reflected in his activity on the editorial boards of numerous scientific journals (Geološki vjesnik, Acta geologica, Rudarstvo, Sveučilišni vjesnik, The Florida State University Proceeding and Reports, Theoprastus Contributions to Advanced studies in Geology).

During his long and fruitful career, Professor Jurković won many honors and medals. He received the prestigious Order of Danica Hrvatska for science (2012), Order of the Republic of Croatia with golden wreath (1987), Order of merits for the people with golden star (1977), Order of the Republic of Croatia with silver wreath (1974), Order of labour with golden wreath (1964), Order of labour with silver wreath (1953) and Medal for merits for the people (1948). He was an honorary member of five professional societies and received many other honours, including 32 plaquettes and charters of numerous notable Croatian institutions and faculties. The achievements of professor Jurković, as a scientist and a public server, were recognized in many foreign countries whose governments invited him to be a guest, for instance the German government in 1974 and the French government in 1977, and where he obtained medals from ten different universities.

Professor Jurković was an extraordinary and incredibly inspiring professor, an admired orator and a researcher of exemplary diligence. He furthered our knowledge and was supportive of anyone who wanted to learn. Due to his scientific enthusiasm and dedication to the work, brilliant intelligence and extremely good memory which allowed him to make the best possible coordination of all his observations, he earned the respect and admiration of all his colleagues. He was an academic giant and a highly influential personality. The numerous contributions of professor Jurković to both academic and overall public life mean that he will be much missed and never forgotten.

Vesnica Garašić and Goran Durn

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