Iosif Viehmann - a lifetime dedicated to cave and karst

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Iosif (Pepi) Viehmann, a former karst scientist in the “Emil Racoviță” Institute of Speleology (Cluj, Romania), passed away on August 6, 2016 at age 90. Born on September 1, 1925 and raised in Cluj, his childhood, and especially his adolescence, were marked by turbulent historical events on the eve of World War II. Between 1946 and 1950, Pepi attended the Faculty of Natural Sciences at the „Regele Ferdinand I” University (now „Babeș-Bolyai” University) in Cluj. During his first year in college, he had the chance to meet and be inspired by Emil Racoviță, who founded the world’s first Speleological Institute in Cluj in 1920. From Racoviță, Pepi inherited the skills to develop scientific and popularization conferences peppered with charming stories and illustrated with slide projections covering many karst- and cave-related topics.

After graduation, Pepi spent five years as a Natural Science teacher at the Pedagogical School in Năsăud. During his tenure, he teamed up with another local teacher (L. Bîrte) and discovered the Tăuşoare Cave (Rodnei Mountains) (Viehmann & Şerban, 1963; Viehmann et al., 1964b). Subsequently, in 1958, Pepi returned to Cluj to join the research group at the Speleological Institute. He dedicated more than 50 years to the exploration and study of several karst regions in Romania; the karst of the Apuseni and Rodnei mountains were closest to his heart.

The text below is a modified version of a note I wrote in September 2000 when celebrating our colleague and friend Pepi Viehmann on his 75th birthday. I realize now that this note best characterizes Pepi Viehmann’s activity, which identifies with the post-war beginnings of scientific speleology in Romania. His activity, longer than half a century, has been highlighted by many achievements in both exploration and publication. He was a member of teams that made exceptional cave discoveries and explorations during the ’50s and ’60s. Along with Mihai Șerban, Marcian Bleahu, Emilian Cristea, Dan Coman, Theodor Rusu, Corneliu Pleșa, Gheorghe Racoviță, and Valentin Crăciun, he surveyed caves such as Pojarul Poliței, Vârtop, Cetățile Ponorului, Șesuri, Căput, Vadu-Crișului, Neagră, Gemănata, Tăuşoare, Igeheablui lui Zalion, Iza, and Urșilor, to name only a few (Viehmann, 1967, 1963; Bleahu & Viehmann, 1963; Viehmann et al., 1964a, 1979, 1980). However, a brief examination of the references included in four different editions of Peșteri din România (Caves of Romania) reveals Pepi Viehmann’s name on numerous cave maps, indicating his significant contribution and assiduous field activity.

From a scientific point of view, Pepi Viehmann published more than a hundred papers in Romanian and foreign journals. Among these are monographs concerning karren and stream whirlpools (Viehmann, 1959a, 1964), as well as a series of studies on the genesis and morphology of cave pearls (Viehmann, 1957, 1959b, 1993). He is the main author of the
Ghețarul de la Scârîsoara and Bears Cave photo albums (Viehmann et al., 1968; Viehmann & Guja, 2014), and the co-author of two other books illustrating and describing the caves of Romania (Șerban et al., 1961; Bleahu et al., 1976). He is also the author of General Speleology, a textbook for students that was published in 2000, and another cave album dedicated to the Vițop Cave (Guja & Viehmann, 2013).

One of Pepi Viehmann’s many significant scientific activities was the Ghețarul de la Scârîsoara, where each month for over 40 years, he gathered climatic and glaciological data, which were used in several papers (Viehmann et al., 1965; Viehmann, 1969; Viehmann & Racoviță, 1982; Racoviță & Viehmann, 1985; Racoviță et al., 1987).

Gifted with a special capacity of observation, understanding of how to value each detail, and mastery in designing original methods to explain various genetic processes, Pepi Viehmann surprised the scientific community with some very ingenious experiments. He used nail polish to mark numerous cave pearls and cave rafts to examine their evolution (Viehmann, 1959a, b, 1962, 1992; Viehmann et al., 1997), ringed eccentric speleothems with a chemical pencil to prove the anti-gravitational crystallogenensis process, and revealed the presence of the permanent drop on top of helicitites (Viehmann, 1962). Very early in his professional career, Pepi published a series of papers on genesis and classification of speleothems (Viehmann, 1958, 1975a, 1976), as well as on the mineralogy of various cave minerals and deposits (Diaconu et al., 1977; Viehmann et al., 1981; Onac & Viehmann, 1987; Onac et al., 2001).

Pepi Viehmann’s name is also linked to the sensational discoveries of the prehistoric human footprints in the clay of Ciur-Izbuc Cave (Rusu et al., 1969; Webb et al., 2014) and in the hardened moonmilk of the Vărtop Cave (Casa de Piatră) (Viehmann, 1975b; Viehmann et al., 1982, 1996; Onac et al., 2005). He is also known for his thorough observations on the cave bear traces and their cohabitation with the prehistoric humans (Viehmann, 1987).

An excellent pedagogue and good mate during field campaigns, he led several series of students through the fascinating world of caves with professionalism. He shared his love of speleology with the help of charming slideshows and unforgettable caving camps. He helped anyone seeking advice, and was loved and appreciated by all. To his merit, Pepi not only discovered some outstanding Romanian caves, but he also continuously discovered people, who in turn discover and study new caves.

The boundless love and passion for the magnificent world of karst was the secret of his youth and power of work. All these characteristics made Pepi Viehmann a continuous stimulus for the young generation in the Speleological Institute and beyond. Pepi’s death has deprived the karst community, jazz fans, and many others of his enthusiasm and charm, and he will be very much missed by his many friends and colleagues. He is survived by his wife, Alina, and his children, Radu and Cristina.

Selected books, chapter, edited (co-edited) volumes, and papers by Iosif Viehmann:

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Bleahu M., Decu V., Negrea S., Pleșa C., Povară I. & Viehmann I., 1976 - Caves of Romania. Ed. Științifică și Enciclopedică, București, 415 p. (in Romanian).
Diaconu G., Medeșan A. & Viehmann I., 1977 - Une nouvelle paragenèse minéralogique dans la grotte “Peștera Pagului”, Département de Bihor (hunite, hydromagnesite, aragonite, calcite). Travaux de l’Institut de Spéléologie “Emile Racoviță”, XVI: 203-210.
Guja O. & Viehmann I., 2013 - Vițop Ice Cave. Societatea Națională de Spelologie, Cluj-Napoca, 64 p.
Onac B.P. & Viehmann I., 1987 - Origines et formes d’apparition du gypse dans Peștera Vintului (Monts Pădurea Craiului). Theoretical and Applied Karstology, 3: 243-245.

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Racoviță G. & Viehmann I., 1985 - Étude de l’évapocondensation souterraine dans une grotte glaciaire. Theoretical and Applied Karstology, 2: 123-130.

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Șerban M., Viehmann I. & Coman D., 1961 - Caves of Romania. Ed. Meridiane, București, 33 p + illustrations.
Viehmann I., 1957 - Perlele de cavernă din Ghețarul de la Scârîsoara. Dări de Seamă ale Ședințelor Comitetului Geologic, XLV: 283-295.
Viehmann I., 1958. Le formations stalagmitiques des grottes du complexe karstique de Scârîsoara. Mémoires du Colloquium International de Spéléologie de la Fédération Spéléologique de Belgique, 1: 73-80.
Viehmann I., 1959a - Contributions à la connaissance de la génèse des marmûtes. Speologie, 1: 3: 145-175.
Viehmann I., 1959b - Un nouveau processus de génèse des perles de caverno. Ceskoslovensky Kras, 12: 1-9.
Viehmann I., 1962 - Contributions to the understanding of helicitites genesis. Dări de Seamă ale Ședințelor Comitetului Geologic, XLIII: 659-670. (in Romanian with French abstract)
Viehmann I., 1963 - Un nou proces de geneza a perelor de cavernă (Un nouveau processus de génese des perles de caverno). Lucrările Institutului de Speologie “Emil Racoviță”, I-II: 295-303.
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Viehmann I., 1969, Methoden für experimentelle Forschung im Studium der Eisböhlen. V. Internationaler Kongress für Speleologie, Stuttgart, 2: 529-531.
Viehmann I., 1973 - Résultats de l’expédition Belgo-Roumaine de la grotte de Tăușoare (Monts Rodna, 1971). Proceedings of the 6th International Congress of Speleology, Academia, Praha, p. 229-232.
Fig. 2. In October 2012, at age 87, Pepi returned to Pojarul Poliței Cave (photo: Ch. Ciubotărescu).