

Dr. Zsolt Kesserû (1934—2001)

Friends, colleagues and students said farewell to Dr. Zsolt Kesserû on 5 Nov 2001 at the Farkasreti cemetery in Budapest. Zsolt Kesserû (Figure 1) was born on the 24th of April 1934 in Miskolc and died suddenly on the 16th of October 2001 at the age of 67. He did his undergraduate work in Miskolc and Sopron and received a degree in mining engineering in Miskolc in 1960. He soon took a position as a researcher at the Mining Research Institute for Mine Water Protection, where he worked until 1979. During this time, he also taught mining engineering part-time at the University of Miskolc. His research focused on mine water and while working, he completed his graduate studies and defended his dissertation on “The Situation and the Possibility of Protection of Groundwater in Coal Mining” in 1980.

He became a full-time teacher in 1980, while also serving as the head of the Centre Mining Institute until 1989. From 1989-1991, he worked as a crisis manager, and then became vice-manager for research until 1994, when he retired from management, though remaining active as a Associate Professor on the Faculty of Mining Engineering in Miskolc. He also lectured on water protection at the Eötvös Lóránd University (ELTE) in Budapest.

He has authored and co-authored more than 100 publications and received about 20 licenses for his inventions. He was a Public Committee Member of the Hungarian Academy for Sciences, and for many years served on their Committee of Hydrology. He was selected by the Hungarian Academy for Sciences to be a member of the International Assoc of Engineering Geology and to serve on the 14th International Waste-Disposal Committee. He has been honoured by the Hungarian Academy for Sciences because of his research work and received their Gold Medal of Excellence for his work as an inventor. He has been an active member of IMWA since its inception and served as an officer between 1979 and 1990. During the last few years, he was listed as an Honorary Member of IMWA.

Selected Publications

Only publications in English or French and important publications in other languages are listed hereafter. Zsolt Kesserû also wrote Hungarian and German Articles. Zsolt used three different versions of his name: Kesseru, Kesserü and Kesserû. Here we cite him with his correct name, Kesserû.

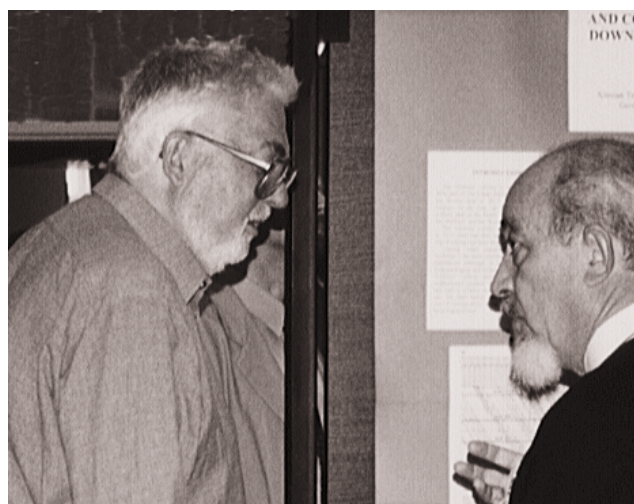


Figure 1. IMWA Honorary member Dr. Zsolt Kesserû (left) discussing with Honorary president Prof. Rafael Fernández-Rubio at the 2000 IMWA Congress in Ústron (Poland; photograph: K. Rubin).

Bagdy I, Kocsanyi L, Kesserû Z (1978) Plans and experiments to deal with large amounts of sediment in Hungarian mines under karstic water hazard. *El agua en la minería y trabajos subterráneos; Vol I—III, Asoc Nac Ing, Minas*, 359-371

Bogardi I, Kesserû Z, Duckstein L, Schmieder A, Szidarovszky F (1978) A statikus bizonytalanság figyelembevétele karsztvízterheléssel kapcsolatos muszaki beavatkozásokhoz [Taking into account static instability for technical interventions on karst water reservoirs], *Proc International Symp on Karst Hydrology, Karst Water Use and Protection*, vol. II. Magyar Foldtani Tarsulat, Budapest, 45-69

Kesserû Z (1971) Some problems and results of laboratory and field investigations into rock movements caused by water migration in loose granular grounds in Hungary. *International Assoc of Scientific Hydrology (International Union of Geodesy and Geophysics)*, Publication Louvain, 1(88): 249-255

Kesserû Z (1976) Possibilities for adapting mining experiences to the study of communications between unconsolidated underground water reservoirs separated by an impermeable rock layer. *Hydrogeology of Great Sedimentary Basins; International Hydrogeological Conf., Hungarian Geol Inst, Budapest*, 20-21

Kesserû Z (1976) Surface damages due to differences in the pressure of interstitial water for unconsolidated sediments, *Hydrogeology of Great Sedimentary Basins; International Hydrogeological Conf, Hungarian Geol Inst, Budapest*, 20

- Kesserû Z (1977) The beginning and future possibilities of using the systems approach for the protection of mines against water hazard, *Publ Hungarian Mining Res Inst* (20): 91-94
- Kesserû Z (1978) The communication between sub-surface water reservoirs in the light of mining experiences, *Memoires--International Assoc of Hydrogeologists*, 14:169-177
- Kesserû Z (1978) Methodology and application of analysing rock-water interaction endangering mines. *El Agua en la Minería y Trabajos Subterráneos; Vol I-III, Asoc Nac Ing, Minas*, 637-655
- Kesserû Z (1984) Empirical and theoretical methods for designing soft semi-impermeable protective barriers, *Int J Mine Water*, 3(2): 1-12
- Kesserû Z (1985) The origin and process control of wet rock material inrushes, *Proc, 2nd International Mine Water Assoc Cong*, 1:255-267
- Kesserû Z (1994) In-mine sealing of water inrushes, *Proc, 5th International Mine Water Cong, Nottingham, UK*, 1:269-280
- Kesserû Z (1994) Utilising the experience of mine water engineering for siting deep waste repositories, *Proc, 5th International Mine Water Cong, Nottingham, UK*, 1:715-726
- Kesserû Z (1995) New approaches and results on the assessment of risks due to undermining for mine's safety and for protecting of water resources, *Water Resources At Risk; A Selection of the Papers, American Inst of Hydrology, Minneapolis, IMWA.53-IMWA.72*
- Kesserû Z (1997) Assessing the risk of cave-collapse sinkholes using analogous information from mining. *Proc — Multidisciplinary Conf on Sinkholes and the Engineering and Environmental Impacts of Karst*, 6:55-60
- Kesserû Z (1999) Aquifers and mines at interacting risks; prevention principles for sedimentary environment, *The Geology of Today for Tomorrow; A Satellite Conf of the ICSU World Conf on Science; Programme and Abstracts, Hungarian Geological Soc, Budapest*, 61
- Kesserû Z, Bogardi I, Szidarovszky F (1978) Systems approach for mine water control. *El Agua en la Minería y Trabajos Subterráneos; V. I-III. Asoc. Nac. Ing, Minas*, 789-804
- Kesserû Z, Dusza L, Widder A, Máté CK (1987) Simultaneous modeling of rock freezing and water seepage and its practical applications, *Int J Mine Water*, 6(1): 1-32
- Kesserû Z, Havasy I, Bagdy I (1985) Proposals on mine water control system for Kotredéz Coal Mine, *Proc, 2nd International Mine Water Cong, Granada, Spain*, 1:13-26
- Kesserû Z, Kempf J, Duckstein L, Casti J (1982) A bifurcation theory model of minewater inrushes, *Proc, 1st International Mine Water Cong, Budapest, Hungary, A*: 346-375
- Kesserû Z, Szilagyi G, Szentai G, Havasy I, Toth I (1987) Exploration and evaluation of the hydrogeological conditions of coal deposits, where the water danger strongly depends on mining methods, in: Zbigniew Wilk Krakow, Wydawnictwo Akad. Gorniczno-Hutniczej. *Hydrogeology of Coal Basins. International Symp Hydrogeology of Coal Basins, Katowice*, 105-123
- Kesserû Z, Vincze T, Havasy I (1990) Numerical simulation of seepage of two fluids in hard reservoir rocks and some applications, *Acta Geodaetica, Geophysica et Montanistica Hungarica*, 25(1-2): 107-126
- Kesserû Z, Willems T (1971) Facteurs determinant le danger cause par l'eau karstique sous, jacente et la presignalisation du danger cause par l'eau karstique, *Publ Hungar Ming Res Inst* (14):25-41
- By Antal Schmieder, Judith Zöldföldi (translation from Hungarian), Christian Wolkersdorfer, Bob Kleinmann, and Kovács Balázs