



Mgr. Viktor Goliáš, Ph.D.

Born in 1971 in Litomyšl, Czech Republic. In 1989 graduated in Mining high school in Duchcov, Czech Republic, with specialization Mining and Mining Geology. In 1994 graduated (Mgr.) in the Charles university (Prague, Czech Republic), Faculty of Science, with specialization Geochemistry, Mineralogy and Economic Geology and in 2002 (Ph.D.) with specialization Geological sciences. From 1995 assistant professor, Charles university, Faculty of Science, Department of Geochemistry, Mineralogy and Economic geology. Advisor of 23 master's and 2 PhD thesis (next 2 active). From 1998 member of the Czech and Slovak Crystallographic Association. From 2003 member of the Czech Geological Society. From 2015 President of the Czech Geological Society.

Professional interests and fields of work:

Mineralogy, radioactive minerals and waters, natural radioactivity, geochemistry of U and Th, radioanalytics (alpha and gamma spectrometry) incl. radionuclide dating methods (^{210}Pb , $^{230}\text{Th}/^{234}\text{U}$), X-ray powder diffraction.

Expert activities:

Special professional competence according to the Atomic Act (No. 263/2016 Coll.) from 2001. Cooperates with many spas in the Czech Republic (e.g. Jáchymov, Karlovy Vary, Jeseník, Janské Lázně etc.) in the field of water radioactivity and their positive curative effect on the human body. Since 2013 course lecturer of the IAEA/NEA, School of Uranium Production, Stráž p. Ralskem.

Selected publications:

Prošek, Z.; Trejbal, J.; Nežerka, V.; Goliáš, V.; Faltus, M.; Tesárek, P. (2020): Recovery of residual anhydrous clinker in finely ground recycled concrete. *Resources, Conservation and Recycling* 155. <https://doi.org/10.1016/j.resconrec.2019.104640>

Čurda, M.; Goliáš, V.; Klementová, M.; Strnad, L.; Matěj, Z.; Škoda, R. (2017): Radiation damage in sulfides: Radioactive galena from burning heaps, after coal mining in the Lower Silesian basin (Czech Republic). *American Mineralogist* 102/9, 1788-1795.

Goliáš, V.; Tumorhoo, G.; Kohn, P.; Šálek, O.; Plášil, J.; Škoda, R.; Soumar, J. (2016): Construction of new houses on a uranium vein outcrop: A case study from the Czech Republic. *Nukleonika* 61/3, 343-349.

Plášil, J.; Palatinus, L.; Rohlíček, J.; Houdková, L.; Klementová, M.; Goliáš, V.; Škácha, P. (2014): Crystal structure of lead uranyl carbonate mineral widenmannite: Precession electron-diffraction and synchrotron powder-diffraction study. *American Mineralogist*, 99, 276-282.

Vu, H.; Bernardi, J.; Jandová, J.; Vaculíková, L.; Goliáš, V. (2013): Lithium and rubidium extraction from zinnwaldite by alkali digestion process: Sintering mechanism and leaching kinetics. *International Journal of Mineral Processing* 123, 9-17.

Šamonil, P.; Schaertzl, R.J.; Valtera, M.; Goliáš, V.; Baldrián, P.; Vašíčková, I.; Adam, D.; Janík, D.; Hort, L. (2013): Crossdating of disturbances by tree uprooting: Can treethrow microtopography persist for 6000 years? *Forest Ecology and Management* 307, 123-135.

Goliáš, V.; Pittauerová, D.; Procházka, R.; Třískala, Z. (2005): Field alpha spectroscopy of radon (Rn-222) and actinon (Rn-219) progeny in soil gas: Locating a radon source. *Journal of Radioanalytical and Nuclear Chemistry*, 266, 461-470.