



## **Ing. Jiří Mužák, Ph.D.**

Born in 1971 in Liberec, Czech Republic. In 1994 he graduated from the Technical University in Liberec with specialization in Automated Control Systems. Then he has worked for Technical University in Liberec as an assistant for one year. Between 1995 and 2000 he worked as a researcher at the Academy of Sciences of the Czech Republic, Institute of Computer Sciences. At the same time, in 1995 he started his professional career at DIAMO, state enterprise, Stráž pod Ralskem. First as a mathematical modelling specialist, then as the Head of the Mathematical Modelling Department. In 2000 Jiří Mužák got his Ph.D. from the Technical University in Liberec in the field of Thermal Engineering. Since 2016 he has been working at DIAMO, state enterprise as the Head of Department of International Cooperation and as the Director of International Training Centre “World Nuclear University – School of Uranium Production”.

### **Professional interests and fields of work:**

Uranium mining, remediation, numerical methods in fluid mechanics, modelling of groundwater flow and pollution, modelling of transport in porous media and fractures, geothermal energy, leading and organization of international training courses.

### **Expert activities:**

Consultant and expert of the International Atomic Energy Agency (IAEA). Several expert missions realized abroad in Europe, America, Asia and Africa oriented on uranium mining and ground water remediation.

### **Selected publications:**

Čermáková H., Mužák J., Novák J.: Application of Numerical Simulation System on Turonian Aquifer Remediation Control. In B. Merkel, B. Planer-Friedrich, Ch. Wolkersdorfer eds. Uranium in the Aquatic Environment, Proceedings of the International Conference Uranium Mining and Hydrogeology III and the International Mine Water Association Symposium, Freiberg, Germany, 15 – 21 September 2002, pp. 319 – 326, Springer – Verlag Berlin Heidelberg 2002, ISBN 3 – 540 – 43927 – 7.

Ekert V., Mužák J.: Mining and remediation at the Straz pod Ralskem uranium deposit, GeoScience Engineering, Volume LVI (2010), No.3 - Special Issue, pp. 1-6, ISSN 1802-5420.

Holeček J., Mužák J. and Pačes T.: Dispersion and immobilization of pollutants in Cretaceous sandstones where U ore was mined by sulfuric acid leaching, Chinese Journal of Geochemistry, 2006-03-04, Science Press, co-published with Springer-Verlag GmbH, ISSN: 1000-9426, pp. 43, Vol. 25

Mužák, J.: Remediation of consequences of chemical leaching of uranium in Straz pod Ralskem, 10th IMWA Congress, Mine Water and Environment, 2008, pp. 217-220, Karlovy Vary, Czech Republic, eds. Rapantova & Hrkal. ISBN 978-80-248-1767-5.

Šolc J., Steadman E., Novák J., Mužák J.: Em Task 26 Integrated Chemical Reaction Kinetics in Contaminant Transport Model, Phase I, Final Report, Prepared for: U.S. Department of Energy, National Energy Technology Laboratory, PO Box 880, MS 107, Morgantown, WV 26507-0880, Performance Monitor: Karl-Hainz Frohne, Contract No. De-FC21-94MC31338, 2000.