

Short curriculum vitae

Born in Prostějov, Czech Republic

Academic qualification

1985 Engineer degree (**Ing.**) in Faculty of Mechanical Engineering, VSB-Technical University in Ostrava

Work experience

Institute of Geonics AS CR, v.v.i. in Ostrava (until 1991 the Mining Institute of the CSAV):

1985-1993, researcher worker, Department of Mine Aerology

2001-2014, researcher worker, Department of Geomechanics and Mining Research

2015-present, researcher worker, Department of Applied Mathematics and Computational Sciences

VSB-Technical University in Ostrava :

1993-2001, assistant professor, Faculty of Mining and Geology, Department of Mine Ventilation

Professional interests

- **Numerical simulation** of thermo-hydro-mechanical processes (THM) in porous media with variable saturation. Application of THM models in sealing barriers of underground spent nuclear fuel storage.
- **Geotechnical applications** - nuclear waste repositories; stability of slopes, foundations or tunnels; excavation damage zones.
- **Numerical simulation** of ventilation and thermodynamic phenomena of deep mines. Application in low-temperature oxidation of coal.