

Projects and cooperations

Projects

- European Joint Programme on Radioactive Waste Management – EURAD. The European Union’s Horizon 2020 research and innovation programme, No. 847593, 2019-2024. Beneficiary: AGENCE NATIONALE POUR LA GESTION DES DECHETS RADIOACTIFS - ANDRA (France); co-financed by the Czech Radioactive Waste Authority (SÚRAO); IGN budget in CZK: 1,951 K; my role: team member 2021-2023.
- Prediction of EDZ properties with impact on safety and reliability of deep radioactive waste repository – ENDORSE. Technology Agency of the Czech Republic (TA ČR), grant No. TK02010118, 2019-2022. Beneficiary: TU Liberec; IGN budget in CZK: 4,417 K; my role: co-investigator 2021-2022, team member 2019-2022.
- Efficient and reliable computational techniques for limit analysis and incremental methods in geotechnical stability. Czech Science Foundation (panel on civil engineering), grant No. 19-11441S, 2019-2022. Beneficiary: Institute of Geonics; IGN budget in CZK: 4,743 K; my role: team member.
- IT4Innovations excellence in science. The Ministry of Education, Youth and Sports (of the Czech Republic), National Programme of Sustainability (NPU II), project No LQ1602, 2016-2020. Beneficiary: VŠB - Technical University of Ostrava; IGN budget in CZK: 11,720 K; my role: team member.
- IT4Innovations Centre of Excellence. OP VaVpl project reg. no. CZ.1.05/1.1.00/02.0070, www.it4i.cz, 2011-2015. Inst. Geonics is a project partner solving research programme Numerical Modelling for Solution of Engineering problems; my role: research assistant - 2014-2015.
- DEvelopment of COupled models and their VALidation against EXperiments - DECOVALEX 2015, DECOVALEX 2019, www.decovalex.org, strongly international project supported by the national agency responsible for a safe deposition of nuclear waste in the CR - the Czech Radioactive Waste Authority (SÚRAO). Last phase Decovalex 2019 was coordinated from the Lawrence Berkeley National Lab with the research teams from USA, UK, Switzerland, France, Germany, Sweden, Japan, Korea and Taiwan. my role: team member.
- Project GAČR 105/06/0630, Modeling of heat distribution from coal oxidation in a heterogeneous porous environment, 2006-2008, Recipient: University of Ostrava, co-recipient: ÚGN AV ČR, my role: team coordinator
- Project ČBÚ 24/2003, Mathematical modeling of temperature and humidity changes of mine winds in a separately ventilated part using machine cooling. my role: team coordinator