

Ondrej Behal, M.Sc.

CONTACT

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PROFILE

- Outstanding problem solving capabilities combined with confidence to take appropriate action.
- Ready to accept responsibility and work with or without supervision.
- Open to learning opportunities, adapting well to challenging dynamic situations, new skills and software.
- Well organized, energetic, hard worker and reliable team player.

EDUCATION

Master of Science – Applied geology, Engineering geology, 9/2002 - 6/2009
Charles University in Prague, Faculty of Science, Prague, The Czech Republic

Thesis: [Engineering-geological characterisation, monitoring and a numerical model of exploratory addit and tunnel Lahovská.](#)

Note: Please see Course List on the last pages

High School Diploma (maturita) - Gymnasium Kolín, 1994 - 2002

High school with specialization for natural sciences and languages, Kolín, The Czech Republic

AWARDS

- 3rd place in FINE and Mott Mac Donald award for the best geotechnical thesis 2009 in The Czech Republic

PUBLICATIONS

numerous reports of complete engineering geological exploration (survey), recommendations for construction of foundation systems and mapping of the current state of an old constructions and its foundations (not listed) viz <http://behy.xf.cz>

Běhal, O. and Běhal, Z. (2002). Associated minerals of pyrop in alluvial sediments of south surrounding of Kolín (in Czech). Minerál X., Brno, CZ, 268-270.

Pauliš, P., Běhal, Z., Běhal, O. (2004). Garnet spheres from Ústup near Olešnice (in Czech). Minerál XII., Brno, CZ, 266-270.

Běhal, O. and Běhal, Z. (2005). Anatas of the Cretaceous sediments of Práchevna quarry in Kutná Hora (in Czech). Minerál XIII., Brno, CZ, 338-339.

Běhal, O. (2006). Unstable rock boulders at the base of the Rock by the Kohoutův mlýn so called Pašinka in Kolín region (in Czech), hopsuk.cz, Kolín, CZ.

Běhal, O. and Mašín, D. (2008). [Numerical model of an exploratory adit and tunnel Lahovská \(in Czech\)](#), In Proc. Polní Geotechnické Metody 2008, Ustí nad Labem, CZ; 18-23.

Běhal, Z. and Běhal, O. (2012). Confirmation of the occurrence of garnet clinopyroxenite near the Hranice farm by Dobešovice, the Kutná Hora unit (in Czech). *Práce muzea v Kolíně, řada přírodovědná* 10: 3-6, Kolín, CZ.

WORK HISTORY

Exploration Geologist, Mine Manager, behy project, Nelson, BC, Canada, (owner 4/2017 – present)

- Geologist (exploration, resources, geotechnical engineer), Land Surveyor, Driller, Gold Prospector and Miner, Mechanic, part time gold placer claim exploration and mining project

Rope Access Works, behy project, Calgary, AB, Canada, (owner 12/2018 – present)

- high rise chair and swing stage works, caulking, installations, flashings, windows, roof, stucco...

ISA Certified Arborist, Tree climber, Crew leader, Foreman – Calgary, AB, Canada, YOUR TREE DOCTOR(2014-15), ROPE-A-DOPE (2014), DAVEY (2015), TURNING LEAF TREE SERVICE (2016-17), DAVEY (2018), bp tree services – Calgary (owner, 2018) Arborist 4/2014 – present, (5 years)

- climbing trees in order to prune, remove or treat them, tree diagnostics, crew leading, bucket truck driving and operating, power tools and chipper operating, customer service, estimates

Geological Engineer (Geotechnical Engineer) – exploration and survey, PRAGOPROJEKT a.s., Prague, The Czech Rep., 6/2011 – 6/2013, (2 years)

- complete geotechnical engineering service (terrain work, supervision of construction of foundations, drilling, logging, sampling, writing reports, drawing geological maps, profiles and other documentation, designing and solving problems of existing foundation systems of a different constructions, shallow (footings) and deep (piles), computing geotechnical models (FEM, vector, slope stability, settlement, deformation) for designers of highways (tunnel, bridge, embankment, cut, slope stability) and buildings

Geological Engineer – underground constructions, PUDIS a.s., Prague, The Czech Rep., 2-12/2007, 4-5/2008, 11/2009-12/2010, (2 years and 3 months)

- engineering geological documentation of the tunnel face, drawing geological cross sections, drawing geological maps, groundwater monitoring, deformation monitoring (extensometers, nivelation and convergence control points), sampling, writing reports, FEM analyses of the selected parts and cross sections of the tunnels • worked on the highway and railway tunnel constructions Lahovská (highway R1 around Prague, NATM), Blanka (highway MO in Prague, NATM), Radejčín (highway D8 in Central Bohemian Uplands, NATM) and Metro V.A (subway, Prague, NATM, TBM)

Charles University in Prague, Operator of terrain geophysical measurements and data analyst, Prague, The Czech Rep., 9/2003 – 5/2007 part time

- different field geophysical measurements (seismics, geoelectric methods, magnetometry, radiometry)

Stone Quarry Kohoutův mlýn in Kolín region, The Czech Rep., 8/2004 – 8/2006 part time

- open pit mining operation, mining of orthogneiss blocks for construction, decorative stone and menhirs, engineering geologist, planner, miner, operator of mine mechanisms, blaster in one person

Institute of Archaeology of Academy of Sciences of The Czech Rep., 7-8/1998, 7-8/1999, 7-8/2000, 7-8/2001 full time

- research of A Bronze Age fortified Velim Skalka near Kolín, important Bronze Age city of Central Europe
- researcher, map drawer, geodetic surveyor, field measurements, excavations, collection and preparation of samples

VOLUNTEERING EXPERIENCE

The Venus Project, translator English/Czech, Consulting Geotechnical Engineer
<http://thevenusproject.com> Venus, Florida, USA, 2015 – present,

Climbing club HO Potkali se u Kolína, organizer of operation and actions, Kolín, The Czech Rep., 2006 - 2014

- administration of the web presentation, organizing of the rock climbing competitions, training, instruction, designing and construction of a artificial climbing wall in Kolín and other

Czech mountaineering association, caretaker of rocks in Kolín and Prague region, Kolín, Prague, The Czech Rep., 2007 - 2014

- installation and repairs of protection (bolting, glue in anchors) on the rocks, documentation of climbing routes, web climbing guides administrator

SKILLS & HOBBIES

- EGBC – applied for EIT, APEGA, Engineers Yukon - eligible to apply for P.Eng, P.Geo
- **Languages: Czech (native speaker - C2), Slovak (C2), English (Proficient user – C1, CELPIP-2014: 9,7,7,7), German (A2), French (A1)**
- Alberta **Class 1 driver's license, Air brakes endorsement (Q)**, International and European driver's license class 5 advanced, driver's license for car since 2001
- **Standard first aid, Level C CPR/AED** Mar/2021 • **WHIMIS** 4/2018
- **Work at height** (rope access work) BOZP since 2006, Chair work since 2001
- **Fall Protection**, GO SAFETY 12/2018 • Rope access **Bosun's chair** course 1/2019
- OS: **GNU Linux** – Ubuntu, Debian; Android; **Windows**; Mac OS X
- software: **AUTOCAD** (civil, 3D, map), OPENCAD, MS MICROSTATION, TRIMBLE **SKETCHUP**, ADOBE PHOTOSHOP, ADOBE PREMIERE PRO, **COREL DRAW**, INKSCAPE, GIMP, **ESRI ArcGIS**, QGIS, QID, MS OFFICE, **LIBRE OFFICE**, **PLAXIS 2D 3D**, **GEO 5**, TOCHNOG, FLAC, **PYTHON**, MATLAB and many others
- **Instructor of rock climbing** (RCI) of the Czech mountaineering association
climbing cv: OS 9/9+ (5.12d, 7c/7c+), FLASH 9+ (5.13a, 7c+), **PP 10-** (5.13b, 8a+), boulder 7C FB, **4478 m**
- **ISA Certified Arborist**, professional tree climber, arboriculture and tree work
- **Underground technical work, horizontal and vertical core and full profile drilling**
- **Geodetic surveying**
- Placer gold mining, **claim owner**, mine manager, gold prospector
- PADI certified open water scuba diver, in progress, indoor course completed
- Rock climbing, mountaineering, bouldering, environmental and social science – The Venus project, geology, mining, gold, placer mining, blasting, spelunking, sail yachting, free diving, scuba diving, cross country skiing, volleyball, playing guitar, traveling

LIST OF COURSES TAKEN:

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|--|---------------------------------------|
| • Principles of Mineralogy | • General Geology-Endogenous dynamics |
| • Mathematics I, II, III & IV | • General Geology-Exogenous dynamics |
| • Introduction to practical Geology I & II | • Paleontology |
| • Chemistry for Geologists | • Mineralogical Field Trip |
| • Individual article - essay I & II | • Minerals and Rocks Microscopy |
| • Evaluation of scientific information | • Geological field course |

- Physics of the Earth
- Petrology
- Sedimentary geology seminar
- Microscopy of rock-forming minerals
- Field course of Petrology
- Mineralogical field trip
- Practice in Computer Science
- Hydrogeology
- Geochemistry
- Sedimentary geology
- Applied Geophysics
- Foreign language – English I & II
- Engineering geology
- Principles of Karsology and Paleokarsology
- Geology of Quarternary
- Live and The Planet
- Methods of geological research
- GIS and Remote Sensing in Geology
- Data Processing in Geology
- Field training course of geological mapping
- Structural Geology
- Coal geology seminar
- Meteorology and climatology
- Field methods in Hydrogeology and Engineering Geology
- Economic Geology – Geology of Mineral Deposits
- Soil Mechanics I & II
- Historical and Stratigraphical geology
- Principals of mining and exploration
- Filed course of Engineering geology and Hydrogeology I & II
- Field course in Applied Geophysics
- Field trip of Historical and Stratigraphical geology
- Regional Geology
- Investigation methods in Engineering Geology I & II
- Special topics of Engineering Geology I & II
- Principles of photography and special macrophotography
- Geochemical seminar I & II
- Water supply engineering
- Applied Geophysics in Hydrogeology, Engineering Geology and Environmental Studies
- Seminar of Applied Geology I, II, III & IV
- Geotechnical defects buildings
- Introduction to Civil Engineering
- Field course of Economic Geology
- Hydrodynamics tests in boreholes
- Regional Engineering Geology
- Economic Geology and Mineralogy Seminar
- Fundamentals of video
- Dynamics of Engineering geology
- Basics of UNIX
- Methods of Foundation Engineering
- Instrumentation and Monitoring in Engineering Geology
- Rock Mechanics
- Mathematical Modelling in Geomechanics I & II
- Natural disasters
- Groundwater Protection
- Legal aspects in Applied Geology
- Special Issues of Geotechnics
- M.Sc. Thesis in Engineering Geology