

Personal data

Family name: Kolínský
First name: Petr
Nick name: Ferro
Date of birth: 1977, December 7
Nationality: Czech
Address: Vrcov 85, Borovany, 373 12, Czech Republic
E-mail: petr.kolinsky@volny.cz
Mobile telephone No.: +420 777 213 954
Mother tongue: Czech
Other languages: English – fluent
 German – basic knowledge
 Russian – basic knowledge
 Latin – 5 years of studying, basic knowledge
Driving license and experience: since 1996; A, B, C, E, T (trucks and trailers available)
 1996 – 1998 driver of truck in bakery
 1998 driver of truck in convoy to Kosovo
 1999 driver of truck to Macedonia / Kosovo
 a lot of other experiences of driving cars, vans, off-road 4x4 trucks, little buses
Computer skills: Windows, Linux, programming by Pascal (Delphi, Lazarus), Fortran, C++, Matlab, html, JavaScript, graphical software, seismic data processing, Seismic Unix, software application development

Education

University education:
 2004 – 2010 - Charles University (Prague), Faculty of Mathematics and Physics, Department of Geophysics - seismology / Ph.D. thesis: "Surface Wave Analysis and Inversion – Application to the Bohemian Massif"
 1997 – 2003 - Charles University (Prague), Faculty of Mathematics and Physics, Department of Geophysics - seismology / Mgr. diploma thesis: "Dispersion of Seismic Surface Waves Along Selected Eurasian Paths"
High school education:
 1998 – 2004 - Jaroslav Ježek Conservatory and Higher Specialized School (Prague) / Konzervatoř a vyšší odborná škola Jaroslava Ježka – classical and jazz piano (dipl. um. degree)
 1990 – 1997 - First Private High School (Prague) / První obnovené reálné gymnázium
Other education:
 1984 – 1998 - lessons of playing the piano at music schools in Prague

Jobs

Employment:
 2003 – 2014 - Department of Seismology (later Seismotectonics), Institute of Rock Structure and Mechanics (IRSM), Academy of Sciences of the Czech Republic – projects concerning

- seismological research and study of the Earth crust
- surface wave research
- small aperture arrays
- rotational components of seismic waves (Rotaphone development, S-wave generator development)
- seismic hazard assessment
- groundwater level variations
- seismic station deployment (Guralp, Streckeisen STS-2 and STS-2.5, Lennartz, RefTek, RUP (IRSM), Gaia)
- software development (frequency time analysis, array analysis)

 2012 – 2014 - principal researcher of two grant projects by the Czech Science Foundation
 - deputy head of the Department of Seismotectonics

Other:

- 2010 - consultant for MicroSeismic Inc. (OMV project near Vienna, Austria)
 - 1999 – today - preparing outdoor activities
 - 2003 – 2005 - agent of a company dealing in medical goods
 - trade certificates:
 - research and development in natural, technical or social sciences
 - testing, measurements, analyses and verification
 - trade and services intermediation
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Journeys concerning geophysics

- December 2013 - USA, California, San Francisco, AGU Fall Meeting
 - October 2013 - Bulgaria, seismic station maintenance
 - Sept./Oct. 2013 - New Zealand, 3rd Meeting of the International Working Group on Rotational Seismology
 - July 2013 - Indonesia (Java, Lombok, Bali), seismic station deployment
 - December 2012 - Switzerland, Zurich, SED ETH visit and presentation
 - August 2012 - European Seismological Commission 33rd General Assembly, Moscow, Russia, oral presentation
 - May 2012 - Greece, Bulgaria, seismic station maintenance
 - March 2012 - PASSEQ workshop, Warszawa, Poland
 - July 2011 - Seismic monitoring of hydraulic fracturing, Hungary
 - June 2011 - Geophysical Institute, Bulgarian Academy of Sciences, Provadia, seismic station maintenance
 - April 2011 - Seismological Society of America 2011 Annual Meeting, Memphis, Tennessee, posters, and Albuquerque Seismological Laboratory, USGS, Albuquerque, New Mexico, USA, rotational sensor testing
 - September 2010 - European Seismological Commission 32nd General Assembly, Montpellier, France, oral presentation, posters
 - June – July 2010 - Icelandic Meteorological Office, Reykjavik, Iceland – seismic data transfer and software development, international seismic project
 - September 2009 - Geophysical Institute, Bulgarian Academy of Sciences, Provadia, seismic station maintenance
 - June 2009 - 71st EAGE conference, Amsterdam, the Netherlands – oral presentation
 - April – May 2009 - Geophysical Institute, Bulgarian Academy of Sciences, Provadia, new seismic station deployment
 - October – December 08 - three months internship in MicroSeismic Inc, Houston, Texas – shear wave splitting, anisotropy, data processing
 - June 2008 - Geophysical Institute, Bulgarian Academy of Sciences, Sofia – data collection
 - December 2007 - AGU Fall Meeting, San Francisco, California, USA – oral presentation
 - June 2007 - 3rd Stuttgart summer school on nanoseismic monitoring, Stuttgart, Germany
 - September 2006 - 1st European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland – poster presentation
 - May – June 2006 - visiting the Research Centre for Astronomy and Geophysics, Mongolian Academy of Sciences, Ulaanbaatar – bilateral agreement negotiation, SCREAM project
 - June – July 2005 - visiting the Research Centre for Astronomy and Geophysics, Mongolian Academy of Sciences, Ulaanbaatar – study and working tour, presentations
 - April 2005 - 2nd General Assembly of the European Geosciences Union (EGU), Vienna, Austria – oral presentation
 - Oct. – Nov. 2004 - 7th Workshop on 3D Modelling of Seismic Waves Generation, Propagation and their Inversion, Trieste, Italy – study tour, oral presentation
 - June – July 2004 - visiting four institutes of Russian Academy of Sciences in Moscow and Obninsk (Institute of Physics of the Earth named by G. A. Gamburtsev (part of the Shmidt's Joint Institute of Physics of the Earth, Moscow), Institute of Geospheres Dynamic (Moscow), International Institute of Earthquake Prediction and Mathematical Geophysics (Moscow), Central Experimental Methodical Expedition (Geophysical Survey, Obninsk)) – study tour, presentations
 - April 2004 - 1st General Assembly of the European Geosciences Union (EGU), Nice, France – oral presentation
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References:

papers:

- **Kolínský, P.**, Valenta, J. and Málek, J., **2014**: Velocity model of the Hronov-Poříčí Fault Zone from Rayleigh wave dispersion, *Journal of Seismology*, 18, 617-635.
- Gaždová, R., **Kolínský, P.**, Vilhelm, J. and Valenta, J., **2014**: Combining surface waves and common methods for shallow geophysical survey, *Near Surface Geophysics*, Vol. 12.
- Valenta, J., **Kolínský, P.** and Gaždová, R., **2014**: Seismicity and groundwater level variations in the area of the Hronov-Poříčí Fault Zone – results after five years (2009–2013) of monitoring, *Journal of Seismology*, submitted.
- Janutyte, I., Kozlovskaya, E., Motuza, G. and PASSEQ Working Group, **2013**: Study of local seismic events in Lithuania and adjacent areas using data from the PASSEQ experiment, *Pure and Applied Geophysics*, Vol. 170, No. 5, 797-814. List of the PASSEQ Working Group is given in Appendix: M. Wilde-Piórko, W.H. Geissler, J. Plomerová, M. Grad, V. Babuška, E. Brückl, J. Cyziene, W. Czuba, R. England, E. Gaczyński, R. Gaždová, S. Gregersen, A. Guterch, W. Hanka, E. Hegedüs, B. Heuer, P. Jedlička, J. Lazauskiene, G.R. Keller, R. Kind, K. Klinge, **P. Kolínský**, K. Komminaho, E. Kozlovskaya, F. Krüger, T. Larsen, M. Majdański, J. Málek, G. Motuza, O. Novotný, R. Pietrasiak, T. Plenefisch, B. Růžek, S. Sliupa, P. Środa, M. Świeczak, T. Tiira, P. Voss, and P. Wiejacz.
- Knapmeyer-Endrun, B., Krüger, F., Legendre, C. P., Geissler, W. H. and PASSEQ Working Group, **2013**: Tracing the influence of the Trans-European Suture Zone into the mantle transition zone, *Earth and Planetary Science Letters*, Vol. 363, 73–87. Members of the PASSEQ Working Group are M. Wilde-Piórko, W.H. Geissler, J. Plomerová, M. Grad, V. Babuška, E. Brückl, J. Cyziene, W. Czuba, R. England, E. Gaczyński, R. Gaždová, S. Gregersen, A. Guterch, W. Hanka, E. Hegedüs, B. Heuer, P. Jedlička, J. Lazauskiene, G.R. Keller, R. Kind, K. Klinge, **P. Kolínský**, K. Komminaho, E. Kozlovskaya, F. Krüger, T. Larsen, M. Majdański, J. Málek, G. Motuza, O. Novotný, R. Pietrasiak, T. Plenefisch, B. Růžek, S. Sliupa, P. Środa, M. Świeczak, T. Tiira, P. Voss, and P. Wiejacz.
- Brokešová, J., Málek, J. and **Kolínský, P.**, **2012**: Rotaphone, a mechanical seismic sensor system for field rotation rate measurements and its in situ calibration, *Journal of Seismology*, Vol. 16, Issue 4, 603-621.
- **Kolínský, P.**, Valenta, J., Gaždová, R., **2012**: Seismicity, groundwater level variations and Earth tides in the Hronov-Poříčí Fault Zone, Czech Republic, *Acta Geodyn. Geomater.*, Vol. 9, No. 2 (166), 191-209.
- Gaždová, R., Novotný, O., Málek, J., Valenta, J., Brož, M. and **Kolínský, P.**, **2011**: Groundwater level variations in the seismically active region of Western Bohemia in the years 2005–2010, *Acta Geodyn. Geomater.*, Vol. 8, No. 1 (161), 17-27.
- **Kolínský, P.**, Málek, J. and Brokešová, J., **2011**: Shear wave crustal velocity model of the western Bohemian Massif from Love wave phase velocity dispersion, *Journal of Seismology*, 15, 81-104, DOI: 10.1007/s10950-010-9209-4.
- Gaždová, R., **Kolínský, P.**, Popova, I. and Dimitrova, L., **2011**: Surface wave phase velocities between Bulgaria and the Czech Republic, *Exploration geophysics, remote sensing and environment*, 2011/2, 16-23.
- Skácelová, Z., Rappich, V., Valenta, J., Hartvich, F., Šrámek, J., Radoň, M., Gaždová, R., Nováková, L., **Kolínský, P.** and Pécskay, Z., **2010**: Geophysical research on structure of partly eroded maar volcanoes: Miocene Hnojnice and Oligocene Rychnov volcanoes (northern Czech Republic), *Journal of Geosciences*, 55, DOI: 10.3190/jgeosci.072, 299-311.
- Gaždová, R., **Kolínský, P.**, Málek, J. and Vilhelm, J., **2008**: Shear wave velocities inferred from surface wave dispersion beneath the Příbram array in the Czech Republic, *Acta Geodyn. Geomater.*, Vol. 5 (151), 247–255. Times cited: **2**
- **Kolínský, P.** and Brokešová, J., **2008**: The Western Bohemia uppermost crust Rayleigh wave tomography, *Acta Geodyn. Geomater.*, Vol. 5, No. 1, (149), 5-17. Times cited: **1**
- Wilde-Piórko, M., Geissler, W. H., Plomerová, J., Grad, M., Babuška, V., Brückl, E., Cyziene, J., Czuba, W., England, R., Gaczyński, E., Gaždová, R., Gregersen, S., Guterch, A., Hanka, W., Hegedüs, E., Heuer, B., Jedlička, P., Lazauskiene, J., Keller, G. R., Kind, R., Klinge, K., **Kolínský, P.**, Komminaho, K., Kozlovskaya, E., Krüger, F., Larsen, T., Majdański, M., Málek, J., Motuza, G., Novotný, O., Pietrasiak, R., Plenefisch, T., Růžek, B., Sliupa, S., Środa, P., Świeczak, M., Tiira, T., Voss, P., Wiejacz, P., **2008**: PASSEQ 2006-2008: Passive seismic experiment in Trans-Europe Suture Zone, *Studia geophysica et geodaetica.*, Vol. 52, No. 3, 439-448. Times cited: **1**
- Řezba, K., **Kolínský, P.**, **2008**: Uppermost crust S-wave velocities from surface waves generated by M4.1 earthquake in Lubin, Poland, *Proceedings XXXI. Polish-Czech-Slovakian Symposium on Mining and Environmental Geophysics*, Prague, Institute of Geology of the Academy of Sciences of the Czech Republic, eds.: Rudajev, V., Živor, R., Svítlová, J., 39-44.
- **Kolínský, P.** and Brokešová, J., **2007**: The Western Bohemia uppermost crust shear wave velocities from Love wave dispersion, *Journal of Seismology*, 11, 101-120. Times cited: **3**
- Málek, J., **Kolínský, P.**, Štrunc, J. and Valenta, J., **2007**: Generalized average of signals (GAS) - a new method for detection of very weak waves in seismograms, *Acta Geodyn. Geomater.*, Vol. 4, (147), 5-10. Times cited: **1**
- **Kolínský, P.**: **2005**, Seismic velocity model in the vicinity of Eger Rift from dispersion of surface waves, Final report about the Internal start project of the Grant Agency of the Academy of Sciences of the Czech Republic, *Acta Research Reports*, No. 14, 67 - 71.

- **Kolínský, P., 2004:** Surface wave dispersion curves of Eurasian earthquakes: the SVAL program, *Acta Geodyn.Geomater.*, Vol. 1, No. 2 (134), 165–185.

theses:

- **Kolínský, P., 2010:** Surface wave analysis and inversion – application to the Bohemian Massif, *PhD thesis*, Department of Geophysics, Faculty of Mathematics and Physics, Charles University, Prague.
- **Kolínský, P., 2003:** Dispersion of Seismic Surface Waves Along Selected Eurasian Paths. *Diploma thesis*, Department of Geophysics, Faculty of Mathematics and Physics, Charles University, Prague, in Czech. (Disperze povrchových seismických vln podél vybraných euroasijských tras. *Diplomová práce*, KG MFF UK, Praha, česky.)

conferences:

- **Kolínský, P., Valenta, J., Gaždová, R. and Málek, J., 2013:** Surface wave propagation imaging in Central Europe with implications for regional and local structure, oral presentation, AGU 2013 Fall Meeting, San Francisco, California, USA.
- Valenta, J., **Kolínský, P.** and Gaždová, R., **2013:** The Hronov-Poříčí Fault Zone (Central Europe) – five years of seismo-hydrological monitoring, poster, AGU 2013 Fall Meeting, San Francisco, California, USA.
- Brokešová, J., **Kolínský, P.** and Málek, J., **2013:** Comparative measurements of three-component seismic rotation rate from proximate blasts using three different methods: point sensors vs. small-aperture arrays, poster by Petr Kolínský, 3rd Meeting of the International Working Group on Rotational Seismology, Christchurch, New Zealand.
- Málek, J., Brokešová, J. and **Kolínský, P., 2013:** Rotational wavefield from an anthropogenic S-wave source, oral presentation by Jiří Málek, 3rd Meeting of the International Working Group on Rotational Seismology, Christchurch, New Zealand.
- **Kolínský, P., 2012:** Multiple array approach for studying surface wave propagation and estimating local structures, oral presentation, 33rd General Assembly of the European Seismological Commission, Moscow, Russia.
- **Kolínský, P., Gaždová, R., Málek, J. and the PASSEQ working group, 2011:** Array analysis, mode identification and reflections of surface waves in Europe, poster, Seismological Society of America 2011 Annual Meeting, Memphis, Tennessee, USA.
- Málek, J., Brokešová, J. and **Kolínský, P., 2011:** Rotational seismic shear wave generator for seismic surveying, oral presentation by Jiří Málek, Seismological Society of America 2011 Annual Meeting, Memphis, Tennessee, USA.
- Gaždová, R., **Kolínský, P.** and Málek, J., **2010:** Propagation of surface waves from the Greek earthquakes across Europe, oral presentation by Petr Kolínský, 32nd ESC General Assembly, Montpellier, France.
- **Kolínský, P., Gaždová, R., Popova, I. and Dimitrova, L., 2010:** Surface wave phase velocities between Bulgaria and the Czech Republic, poster presentation by Renata Gaždová, 32nd ESC General Assembly, Montpellier, France.
- Brokešová, J., Málek, J. and **Kolínský, P., 2010:** Rotational seismic sensor system for field measurements and its in-situ calibration: application to Western Bohemia Region, poster presentation by Johana Brokešová, 32nd ESC General Assembly, Montpellier, France.
- **Kolínský, P., Eisner, L., Grechka, V., Jurick, D. and Duncan, P., 2009:** Observation of shear-wave splitting from microseismicity induced by hydraulic fracturing – a non-VTI story, extended abstract, oral presentation, 71st EAGE Conference, Amsterdam, the Netherlands. Times cited: 1
- Málek, J., **Kolínský, P., Novotný, O. and Gaždová, R., 2008:** Surface wave propagation through the Bohemian Massif – preliminary results from the PASSEQ experiment, oral presentation by Jiří Málek, 31st General Assembly of the European Seismological Commission, Hersonissos, Crete, Greece.
- Málek, J., **Kolínský, P.** and PASSEQ working group, **2008:** Propagation of surface waves from Kurile Islands earthquakes through Central Europe, poster presentation by Jiří Málek, 2008 Joint assembly of the American Geophysical Union, Fort Lauderdale, Florida, USA.
- **Kolínský, P.** and Málek, J., **2007:** Upper mantle of the Bohemian Massif (Central Europe) studied by surface waves from Kurile Islands M8.1 and M8.3 earthquakes, oral presentation, 2007 Fall meeting of the American Geophysical Union, San Francisco, California, USA.
- **Kolínský, P.** and Málek, J., **2007:** Shear wave crustal velocity model of the Western Bohemian Massif from Love wave phase velocity dispersion, poster, 16th Annual student conference - Week of doctoral students, 5-8 June 2007, Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic.
- **Kolínský, P., 2007:** Shear wave velocity structure estimation using surface waves of different wavelengths, oral presentation, New knowledge and measurements in seismology, engineering geophysics and geotechnics – OVA '06, Ostrava, Czech Republic.
- **Kolínský, P.** and Málek, J., **2006:** Crustal structure of the transition zone between the Saxothuringian, Teplá-Barrandian and Moldanubian units studied by the surface wave method, poster, First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland.

- **Kolínský, P., 2005:** The uppermost Earth crust structure of Western Bohemia estimated from the dispersion of short-period Love waves, oral presentation, EGU meeting, Geophysical Research Abstracts, Vol. 7, 00563, Vienna, Austria.
- **Kolínský, P., 2004:** The Earth crust structure of NW Bohemia estimated from the dispersion of short-period surface waves, oral presentation, EGU meeting, Geophysical Research Abstracts, Vol. 6, 02618, Nice, France.

seismological seminars:

- **Kolínský, P., 2013:** Velká zemětřesení: co víme a co bychom ještě rádi věděli (Great earthquakes: What we know and what else we would like to know), lecture given at the Academy of Sciences, Prague.
- **Kolínský, P., Málek, J. and Brokešová, J., 2013:** Veřejná pitva Jana Mayena (Jan Mayen public dissection), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2012:** Array approach for studying surface wave true propagation paths and estimating local structures, oral presentation at Schweizerischer Erdbebendients, Eidgenössische Technische Hochschule, Zurich, Switzerland.
- **Kolínský, P., 2012:** Skutečné směry šíření povrchových vln – inverze na regionální a lokální strukturu + přídavek: Zajímavost o kolísání spodních vod při megazemětřeseních (True propagation paths of surface waves – inversion for regional and local structure + appendix: Ground water level variations after the meagaquakes), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2011:** Vznik, měření, zpracování a interpretace povrchových seismických vln (Origin, measurement, processing and interpretation of seismic surface waves), lecture given at the Faculty of Science, Charles University in Prague.
- **Kolínský, P., 2010:** Velká zemětřesení: co víme a co bychom ještě rádi věděli (Great earthquakes: What we know and what else we would like to know), lecture given at the Academy of Sciences, Prague.
- **Kolínský, P., 2010:** Seismology and tectonics, lecture for students of PORG (First Private High School)
- **Kolínský, P., Eisner, L. and Duncan, P., 2009:** Štěpení střížných vln od jevů indukovaných při hydraulickém frakturování aneb VTI to nejspíš není (Shear-wave splitting from microseismicity induced by hydraulic fracturing: A non-VTI story.), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., Eisner, L. and Duncan, P., 2009:** Štěpení střížných vln od jevů indukovaných při hydraulickém frakturování aneb VTI to nejspíš není (Shear-wave splitting from microseismicity induced by hydraulic fracturing: A non-VTI story.), seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.
- **Kolínský, P., Novotný, O., Málek, J. and Gaždová, R., 2008:** Disperze povrchových vln a strukturní studie ze záznamů řeckých zemětřesení (Surface wave dispersion and the crust structure from the records of Greek earthquakes.), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2007:** Shear wave velocity structure estimation using surface waves of different wavelengths, seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.
- **Kolínský, P., 2007:** Možnosti inverze povrchových vln aneb od disperze k seismogramu (Inversion of surface waves – from dispersion to seismogram), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2006:** Analýza povrchových vln od blízkých lomových odpalů i vzdálených zemětřesení na skupinové stanici Ostaš (Surface wave analysis of close quarry blast and regional earthquake records using the Ostaš small aperture array), seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.
- **Kolínský, P. and Brokešová, J., 2006:** The Western Bohemia uppermost crust shear wave velocities from Love wave dispersion, seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.
- **Kolínský, P., 2006:** Struktura kůry podél profilu Tábor – Komorní Hůrka metodou měření relativních fázových rychlostí povrchových vln od vzdálených zemětřesení (Earth crust structure along the Tábor – Komorní Hůrka profile from the relative measurement of phase velocities from regional earthquake records), seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2005:** Analysis and inversion of surface waves – Demonstration of the SVAL Program, seminar at the Department of Geophysics, Faculty of Mathematics and Physics, Charles University in Prague.
- **Kolínský, P., 2005:** Model seismických rychlostí v oblasti Oherského riftu na základě disperze povrchových vln – Závěrečná zpráva o startovacím projektu AV ČR (Eger Rift seismic velocity model from surface wave dispersion – Final report about the Internal Start Project of the Grant Agency of the Academy of Sciences of the Czech Republic), seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.
- **Kolínský, P., 2004:** Struktura zemské kůry odvozená z disperze grupové rychlosti povrchových vln (Earth crust structure from the surface wavegroup velocity dispersion), seminar at the Institute of Rock Structure and Mechanics, Academy of Sciences of the Czech Republic.

- **Kolínský, P., 2004:** The uppermost crust S-velocity model of Western Bohemia estimated from the dispersion of short-period Love waves, seminar at the 7th Workshop on Three Dimensional Modelling of Seismic Waves Generation, Propagation and their Inversion, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy.

grant projects I was involved in:

- Nature of seismicity in the Hronov-Poříčí fault area, Czech Science Foundation, No. 205/09/1244, 2009 – 2013, principal investigator.
- Rotational components of seismic waves for local shallow earthquakes and artificial sources, Czech Science Foundation, No. P210/10/0925, 2010 – 2013, joint investigator.
- CzechGeo/EPOS (European Plate Observing System), Ministry of education – Government of the Czech Republic, 2010 – 2015.
- A comparison of seismic swarms in West Bohemia and South Iceland, EEA Grants + Norway Grants, No. A/CZ0046/2/0015, 2009 – 2010.
- Upper crustal model of the Ohře Rift and its vicinity, Grant Agency of the Academy of Sciences of the Czech Republic, No. A300460602, 2006 – 2010.
- Propagation of seismic surface waves in the Trans-European suture zone, Grant Agency of the Academy of Sciences of the Czech Republic, No. A300460705, 2007 – 2009.
- Earthquake swarms in the western part of the Bohemian Massif and their link with crustal fluids, Czech Science Foundation, No. 205/06/1780, 2006 – 2008.
- Hydrogeological effects of seismicity in the Hronov-Poříčí fault zone area, Czech Science Foundation, No. 205/05/H020, 2005 – 2008.
- International seismic experiment PASSEQ – Passive seismic experiment in Trans-European suture zone, 2006 – 2008.
- Seismic velocity model in the vicinity of Eger rift from dispersion of surface waves, starting grant of the Grant Agency of the Academy of Sciences of the Czech Republic, No. Z3046908-I039, 2004, principal investigator.

Other experience

Election missions:

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|---------------|---|
| November 2001 | - International Polling Station Supervisor of the Kosovo Assembly Election organized by the Organization for Security and Co-operation in Europe (OSCE) Mission in Kosovo (OMIK) |
| October 2000 | - work for “Pre-election Education Campaign for Youth in Kosovo: Fushata 2000” (Prishtina, other cities in Kosovo), organized by the Open Society Fund (OSF) Praha (East East Program)
- member of the Council of Europe Election Observation Mission (CEEOM) as the international observer of the Kosovo Municipal Election |

Humanitarian aid missions:

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|----------------|--|
| August 2002 | - cooperation with The Association of Samaritans of the Czech Republic (ASCR) during the flood around Vltava river |
| November 2000 | - delivery of building materials to Czech villages in Banat region, Romania, organized by the People in Need Foundation |
| September 2000 | - cooperation with The Association of Samaritans of the Czech Republic (ASCR) and Samaritan International (SAINT) during the World Bank and International Monetary Fund meeting in Prague |
| September 1999 | - leadership and driving of truck to Macedonia / Kosovo, organized by the Czech Caritas (CKCH) |
| July 1999 | - repair of houses as an aid for people affected by flood in Ukraine (Rachiv, villages), organized by the Czech Caritas (CKCH) |
| April 1999 | - attendance of convoy to Monte Negro (Podgorica, Rozaje), organized by the Adventist Development and Relief Agency (ADRA) |
| December 1998 | - driver of truck in convoy to Kosovo (Prishtine), organized by the People in Need Foundation (PINF) / Mother Teresa Organization (MTO) |
| 1999 – 2001 | - several journeys to Czech villages in the Banat region, Romania and Daruvar, Croatia, attendance of the Czech teachers working in villages, project organized by the Czech Ministry of Foreign Affairs |
| October 1996 | - attendance of convoy to Moldavia (Chisinau, villages), organized by the Adventist Development and Relief Agency (ADRA) |
| 1996 | - fund raising for the Czech Committee for Refugees |

Hobbies and sport:

- 1993 – 1996 - music, travelling, skiing, snowboarding, whitewater rafting, hiking, horse-riding
- 1995 - member of a rhythm 'n' blues band
- 1995 - writing and performing an own dramatic piece (high school)

Memberships, environmental protection:

- member of the Vltava Society (Sdruzeni pro Vltavu) – projects concerning cultural and environmental protection of the upper part of the river Vltava
- member of the Czech Group for Humanitarian Aid
- honorary member of The Association of Samaritans of the Czech Republic
- member of the People in Need Friends Club
- member of the Seismological Society of America (SSA)
- member of the American Geophysical Union (AGU)
- member of the European Association of Geoscientists and Engineers (EAGE)

Press publications:

- foundation and the 2-year work for high school magazine (supported by the Open Society Fund),
- articles for the magazine Babylon, Českobudějovické listy, HYDRomagazín
- interviews in Czech Television, Czech Radio, daily newspapers

Traveling – list of journeys in the last years:

- 2014 - **Slovenia**, tourism, hiking
- 2013 - Southwestern **USA** (Texas, New Mexico, Arizona, Nevada, California), tourism, AGU Fall Meeting in San Francisco, 3 weeks
- 2013 - **New Zealand** (South Island), 3rd IWGoRS meeting, tourism, 2 weeks
- 2013 - **Indonesia** (Java, Lombok, Bali), seismic station deployment, tourism, 3 weeks
- 2012 – 2013 - **Australia** (Victoria, South Australia, Northern Territory, Queensland, New South Wales, Australian Capital Territory), tourism, 4 weeks
- 2012 - **Switzerland**, Zurich, SED ETH visit and presentation
- **Russia**, ESC Assembly, Moscow, Golden circle tourism, 2 weeks
- **Macedonia, Greece, Bulgaria**, seismic station maintenance
- **Scotland**, tourism
- PASSEQ workshop, Warszawa, **Poland**
- 2011 - Seismic monitoring of hydraulic fracturing, **Hungary**
- Geophysical Institute, Bulgarian Academy of Sciences, Provardia, seismic station maintenance, **Bulgaria**
- **USA** – SSA Annual Meeting, tourism, (Tennessee, New Mexico, Arizona, California) 3 weeks
- 2010 - **France** – Montpellier – 32nd ESC meeting
- **Iceland**, international project for seismic swarm comparison
- 2009 - the **Netherlands** – Amsterdam - 71st EAGE conference
- **Bulgaria** – seismic station deployment in Provardia
- 2008/9 - **USA** – two weeks across the south-eastern US (Texas, Louisiana, Mississippi, Alabama, Tennessee, Kentucky, North Carolina, Virginia, Maryland, Delaware, Pennsylvania, New Jersey, New York), following the next journey ...
- 2008 - **USA** – three months internship in MicroSeismic Inc., Houston, Texas
- **Kyrgyzstan and Uzbekistan** – rafting down the Kekemeren and Naryn rivers, trekking in Tian-Shan, tourism along the Silk Road, 6 weeks
- **Bulgaria** – Geophysical Institute, Bulgarian Academy of Sciences
- 2007 - **USA** – AGU Fall Meeting, San Francisco, California
- **Tibet and Nepal** – tourism, trekking around the Mt. Kailash,
- 2006 - **Switzerland** – Geneva – 1st ECEES
- North Atlantic Islands – 6 weeks around **Faroe Islands, Iceland, Shetland and Orkney Islands, Scotland, Isle of Skye and England** – tourism, hiking
- **Mongolia** – visiting the Research Centre for Astronomy and Geophysics of the Mongolian Academy of Sciences, bilateral agreement negotiation, SCREAM project
- **Afghanistan** – Hindukush Mountains, whitewater rafting down the Band-e-Amir River
- 2005 - **Mongolia and Russia** (11 weeks) – visiting the Research Centre for Astronomy and Geophysics of the Mongolian Academy of Sciences – study and working tour, tourism, horse riding; Siberia (Buryatiya and Tuva) – hiking, whitewater rafting down the Bij-Chem (Bolshoy Yenisey River)
- **Austria** – Vienna – 2nd General Assembly of the EGU
- 2004 - **Italy** – Trieste – Seismic Workshop
- **Canada** – 8 weeks across the country (Ontario, Manitoba, Saskatchewan, Alberta, Northwest Territories, Yukon Territory, British Columbia) – tourism, hiking

- 2003/4
2003
 - **Russia** – Moscow – visiting four institutes of Russian Academy of Sciences
 - **France** – Nice – 1st General Assembly of the EGU
 - **Romania** – tourist journey in the Czech villages, winter sports
 - Baltic states and Scandinavia – 6 weeks across Northern Europe (**Poland, Lithuania, Latvia, Estonia, Russia, Finland, Sweden, Norway, Denmark, Germany**) – tourism, hiking, whitewater rafting
- 2002/3
2002
 - **Ukraine** – winter sports, hiking
 - Balkan and Eastern European states – 6 weeks (**Hungary, Romania, Bulgaria, Turkey, Greece, Albania, Kosovo, Monte Negro, Croatia, Bosnia and Hercegovina, Serbia**) – tourism, hiking
- 2001
 - **Kosovo** – Assembly Election
 - **Russia** – Siberia, Altai Mountains – hiking, mountain climbing, whitewater rafting down the Katun River
 - **Romania** – Czech villages
- 2000
 - **Kosovo** – development project, municipal election
 - **Romania** – aid for the Czech villages
 - **Croatia** – aid for the Czech school
 - **USA** – 6 weeks across the Western US (Nebraska, Colorado, New Mexico, Arizona, California, Nevada, Idaho, Montana, Wyoming) – tourism, hiking
- 1999
 - **Ukraine** – humanitarian aid, hiking
 - **Romania** – hiking, Czech villages
 - **Monte Negro** – humanitarian aid
 - **Macedonia** – humanitarian aid
- 1998
 - **Russia** – Siberia, Baikal Lake – whitewater rafting down the Lena River, hiking in the Chamar-Daban Mountains
 - **Kosovo, Serbia** – humanitarian aid
- 1997
 - **Norway** – hiking, whitewater rafting
 - **Croatia** – trainer of a high school course
- 1996
 - **France** – hiking, whitewater rafting
 - **Spain** – hiking, whitewater rafting
 - **Sweden** – high school exchange
 - **Moldavia** – humanitarian aid
 - **Romania** – hiking, whitewater rafting
- 1995
 - **Norway** – hiking, whitewater rafting
- 1994
 - **France** – whitewater rafting
- 1993
 - **Germany** – high school exchange
- 1992
 - **Germany** – high school exchange
 - **Great Britain** – high school exchange
- 1989
 - **Russia** (Soviet Union), Moscow – tourism
 - a lot of other journeys to Slovakia, Austria, Germany, Italy, Hungary, Croatia, Slovenia, France and other countries

travel seminars:

- 2013 tectonics, seismology and travelling (Australia, Indonesia, New Zealand), Jonáš club, Prague
- 2013 photos from Australia, Klíček club, Brandýs n Labem
- 2013 photos from Afghanistan and movie from the Band-e-Amir river rafting, Klíček club, Brandýs n Labem
- 2009 photos from Afghanistan and movie from the Band-e-Amir river rafting, PORG (First Private High School)
- 2008 photos and movie from the Band-e-Amir river rafting, Afghanistan, Clubhouse, Slatiňany
- 2006 photos from Mongolia 2005 and 2006, travelers club Karavanserai, Prague
- 2006 photos from the Sayany Mountains and the Bij-Chem river rafting, travelers club Karavanserai, Prague
- 2006 photos from the Sayany Mountains and the Bij-Chem river rafting, Czech Technical University, Prague
- 2002 movie from the Altai Mountains and about the Katun river rafting, Sodoměřice u Bechyně
- 2002 movie from the Altai Mountains and about the Katun river rafting, Tea-room Carpe Diem, Dobříš
- 2002 movie from the Altai Mountains and about the Katun river rafting, Conservatoire of Jaroslav Jezek