

## Vybrané publikace / Selected publications

Holub K., Rušajová J., Sandev M.: A comparison of the features of windstorms Kyrill and Emma based on seismological and meteorological observations. Meteorologische Zeitschrift, 2009, 6 (18), pp. 607-614. ISSN 0941-2948.

Holub K., Růžek B., Rušajová J.: A simple smoothed velocity model of the uppermost Earth's crust derived from joint inversion of Pg and Sg waves. Acta Geophysica, 2011, 2 (60), pp. 487-497. ISSN 1895-6572.

Holub K.: A Study of Mining-induced seismicity in Czech Mines with longwall coal exploitation. Journal of Mining Science, 2007, 1 (43), pp. 32-39. ISSN 1062-7391.

Kajzar V., Doležalová H., Souček K., Staš L.: Aerial Photogrammetry observation of the subsidence depression near Karviná. Acta geodynamica et geomaterialia, 2011, 3 (8), pp. 309-317. ISSN 1214-9705.

Holub K., Kaláb Z., Knejzlík J., Rušajová J.: Contribution of the Institute of Geonics of the ASCR Ostrava to Seismological Monitoring in Silesia and Northern Moravia. Acta geodynamica et geomaterialia, 2009, 3 (6), pp. 391-398. ISSN 1214-9705.

Taraba B., Michalec Z.: Effect of longwall face advance rate on spontaneous heating process in the gob area - CFD modelling. Fuel, 2011, 8 (90), pp. 2790-2797. ISSN 0016-2361.

Doležalová H., Kajzar V., Souček K., Staš L.: Evaluation of mining subsidence using GPS data. Acta geodynamica et geomaterialia, 2009, 3 (6), pp. 359-367. ISSN 1214-9705.

Doležalová H., Kajzar V., Souček K., Staš L.: Evaluation of vertical and horizontal movements in the subsidence depression near Karviná. Acta geodynamica et geomaterialia, 2010, 3 (7), pp. 355-361. ISSN 1214-9705 .

Telesca L., Lovallo M., Kaláb Z., Lednická M.: Fluctuation analysis of the time dynamics of laser distance data measured in the medieval Jeroným Mine (Czech Republic). Physica. A : Statistical Mechanics and its Applications, 2011, 390 (20), pp. 3551-3557. ISSN 0378-4371.

Kaláb Z., Lednická M., Kořínek R., Hrubešová E.: Influence of local geological pattern on values of vibrations induced by road traffic. Acta Geophysica, 2012, 2 (60), pp. 426-437. ISSN 1895-6572.

Holub K.; Konečný P.; Knejzlík J.: Investigation of the mechanical and physical properties of greywacke specimens. International Journal of Rock Mechanics and Mining Sciences, 2009, Roč. 46, č. 1, s. 188-193. ISSN 1365-1609.

Holub K., Holečko J., Rušajová J., Dombková A.: Long-term development of seismic monitoring networks in the Ostrava -Karviná coal mine district. Acta geodynamica et geomaterialia, 2012, 1 (9), pp. 1-15. ISSN 1214-9705.

Staš L., Knejzlík J., Palla L., Souček K., Waclawik P.: Measurement of stress changes using compact conical - ended borehole monitoring. Geotechnical Testing Journal, 2011, 6 (34), pp. 685-693. ISSN 0149-6115.

Kukutsch R., Žurek P., Stolárik M.: Monitoring and Documentation of Flaking-off Phenomena in the Historical Jeroným Mine. Acta geodynamica et geomaterialia, 2010, 3 (7), pp. 343-348. ISSN 1214-9705.

Holub K., Rušajová J., Holečko J.: Particle velocity generated by rockburst during exploitation of the longwall and its impact on the workings. International Journal of Rock Mechanics and Mining Sciences, 2011, 6 (48), pp. 942-949. ISSN 1365-1609.

Holub K., Rušajová J.: Peak particle velocity for rockbursts in underground coal mines and for shot-hole explosions in open-pit mines. *Acta Geodaetica et Geophysica Hungarica*, 2011, 1 (46), pp. 104-114. ISSN 1217-8977.

Holub K., Rušajová J., Sandev M.: The January 2007 windstorm and its impact on microseisms observed in the Czech Republic. *Meteorologische Zeitschrift*, 2008, 1 (17), pp. 47-53. ISSN 0941-2948.

Souček K., Staš L., Ščučka J., Martinec P.: Chemical grouting – laboratory study of chemical grouts and geocomposites properties. In Singh, D.N. (ed.). International Conference of IACMAG/12./. Bombay: Indian Institute of Technology Bombay, 2008, pp. 3567-3574.

Souček K., Staš L.: Laboratory research of sealing possibilities of cohesionless soils by means of chemical grouts. In Agiotantis, Z.; Komnitsas, K. (ed.). AMIREG 2009 /3./ International Conference: Assessing the Footprint of Resource Utilization and Hazardous Waste Management. Atény : Heliootopos Conferences Ltd, 2009, pp. 394-399. ISBN N.

Kohut R., Souček K., Blaheta R., Kolcun A., Staš L., Georgiovská L., Smetanová L.: Mathematical modelling of material properties using structure data of X-ray CT. In: Kasza, P., Boloz, L. (ed.). Nowoczesne metody eksploatacji węgla skal zwiezzych. Kraków: Department of Mining, Dressing and Transporting Machines, Faculty of Mechanical Engineering and Robotics, University of Science and Technology, AGH Kraków, 2011, pp. 73-88. ISBN 978-83-930353-4-2.

Staš L., Souček K., Knejzlík J., Nohejl Z., Rutar T., Palla L., Waclawik P.: Measurement of stress tensor and stress changes induced by progress of long wall. In Prace naukowe GIG, Mining and Environment 7. Katowice: Zespol Wydawnictw i Usług Poligraficznych GIG, 2008, pp. 245-258. ISSN 1643-7608.

Doležalová H., Kajzar V., Staš L., Souček K.: Observation of subsidence depression by modern geodetic methods. In: SGEM 2008. International Scientific Conference /8./. Modern Management of Mine Producing, Geology and Environmental Protection. Sofia: SGEM, 2008, pp. 485-492. ISBN 978-954-91818-1-4.

Knejzlík J., Rambouský Z., Souček K., Staš L.: Second generation of conical strain gauge probe for stress measurement in rock massif. *Acta geodynamica et geomaterialia*, 2008, 3 (5), pp. 1-9. ISSN 1214-9705.

Staš L., Souček K., Knejzlík J.: Using of conical gauges probe for measurument of stress changes induced by progress of long wall. In: SGEM 2008. International Scientific Conference /8./. Modern Management of Mine Producing, Geology and Environmental Protection. Sofia : SGEM, 2008, pp. 307-314. ISBN 978-954-91818-1-4.