

**Iwona Galeczka** - Ph.D. student

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**Title of Ph.D. thesis:** Experimental studies on the sequestration of CO<sub>2</sub> in basaltic rocks. Change in chemistry and mineralogy of solutions under pCO<sub>2</sub> pressure percolating through a vertical column (plug) filled with basalt particles.

**Description:**

- Carrying out pressurized experiments with CO<sub>2</sub> saturated aqueous fluid in a plug filled with ground basaltic glass
- Monitoring the fluid compositions and solid replacement reactions (ICP, IC)
- Characterization and quantification of solid reaction products (TEM)
- Modeling the replacement reaction within the plug (PHREEQC)

**Supervisors:** Sigurður Reynir Gíslason and Domenik Wolff-Boenisch, Institute of Earth Sciences, University of Iceland.

**Education:** M.Sc. in geology from AGH-University of Science and Technology, Krakow, Poland

**Abstracts:**

**Galeczka I.**, Manecki M., Majka J. 2008. *Mobilization of Cu by rain fall on a historical copper mine dump, L'ubietová, Slovak Republic*. Mineralogia – Special Papers 32, p. 67.

**Galeczka I.**, Manecki M., Majka J. 2008. *The reactions between copper minerals and rain water on slag heap in L'ubietova. Slovak Republic*. Mineralia Slovaca 40/3-4/2008, Geovestnik, p. 259-260.

**Galeczka I.**, Manecki M., Majka J. 2008. *The reactions between copper minerale and rain water on slag heap in L'ubietova. Slovak Republic*. Extended abstracts of IX<sup>th</sup> International Geological Conference of PhD students and Young Scientists. Zawoja, Herlany 2008, p. 28-29.

Gładysz A., **Galeczka I.**, Manecki M. 2007. *Secondary copper mineralization in L'ubietova*, Mineralia Slovaca 39(2), Geovestnik, p.8.

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