

## Impact of inorganic salts on behaviour of air bubbles in aqueous solutions

Danuta Szyszka<sup>1,a</sup>

<sup>1</sup>*Department of Geoengineering, Mining and Geology, Wrocław University of Science and Technology, Na Grobli 15, 50-421 Wrocław, Poland*

**Abstract.** This paper comprises an analysis of solutions of such salts as: sodium chloride NaCl, potassium chloride KCl, sodium sulphate Na<sub>2</sub>SO<sub>4</sub>, ammonium chloride NH<sub>4</sub>Cl, and hexylamine hydrochloride C<sub>6</sub>H<sub>15</sub>N·HCl. The objective of the paper was to determine the Critical Coalescence Concentration (CCC) of four inorganic and one organic salts. The obtained CCC values were similar to those already existing in literature. Also, in this paper the CCC values of investigated inorganic salts were compared in terms of their ionic strength. The results showed that, except KCl, there was a relationship between CCC and ionic strength.

---

<sup>a</sup> Corresponding author: danuta.szyszka@pwr.edu.pl