## DESIGNING MICRO CHEMISTRY EXPERIMENTATION FOR TEACHER TRAINEES IN A UNIVERSITY

<sup>1</sup>Ruby Hanson, <sup>2</sup>Lord Hunnuor Bobobee, <sup>3</sup>Kwarteng Ankrah Twumasi & <sup>4</sup>Victor Antwi <sup>1,2,&3</sup>Department of Chemistry Education, University of Education, Winneba, GHANA <sup>4</sup>Department of Physics Education, University of Education, Winneba, GHANA

## ABSTRACT

Micro chemistry experimentation has come to reduce the usual traditional experimentation through miniature activities. In addition it has reduced activity time and the cost of resources significantly and yet provided personal hands-on experiences for learners. This study presents the design of micro chemistry experimentation for some quantitative and qualitative inorganic chemistry topics for first year undergraduate teacher trainees as well as to introduce a motivating way to teach and conduct chemistry activities. It basically set out to explore the designed low-cost practical approach that could contribute to improved laboratory practice in Ghana, in view of resource, time, and space constraints in a teaching institution. Overall findings showed that the micro chemistry approach made chemistry lessons interesting, interactive, and enabled learners to acquire many learning skills by themselves.

Keywords: Comboplate, wells, microchemistry kit, micro quantity, macro quantity.