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## NEW SOLUTIONS AND PEDAGOGICAL INNOVATIONS FOR CHEMISTRY EDUCATION THROUGH COLLABORATIVE LUMA-ECOSYSTEM

**Maija Aksela**<sup>1, 2</sup><sup>1</sup>LUMA Centre Finland, Finland<sup>2</sup>University of Helsinki, Finland

**S**ome examples of the successful LUMA activities are presented, and the use of design-based research method as a tool for new solutions pedagogical innovations, especially in chemistry education. The aim of LUMA Centre Finland (abbreviated from "luonnontieteet", the Finnish word for natural sciences, and "mathematics") is to inspire and motivate 3-19 years old children and youth into science through the latest methods and activities

of science and technology education. In addition, the aim is also to support the life-long learning of teachers working on levels of education from early childhood to universities, and strengthen the development of research-based teaching. LUMA Centre Finland is an umbrella organization for the collaboration of schools, 12 Finnish universities and the business sector.

maiya.aksela@helsinki.fi