



Alexandra Vidar received her Master's degree in Mathematics Education from the University of Iceland. She has been teaching Mathematics since 1996 first in Tashkent (Uzbekistan) and then in Iceland. Currently she is a Mathematics teacher at Kvennaskolinn in Reykjavik. She has been using GeoGebra in her teaching since 2009 in Calculus and Geometry classrooms.

Abstract:

Since the school years 2008-2012 a new law was implemented in Icelandic education. Our school was a pilot school for the shortened secondary education reform, giving a three-year secondary education instead of a four-year one. This plenary talk will review past and present reform work in Kvennaskolinn in Reykjavik in the faculty of mathematics and the sciences. New designed courses in mathematics faculty focus on use of the dynamic software GeoGebra. I will present examples from the classroom works of my colleagues, students and myself. In addition I will give an introduction to a study that I conducted 2 years ago. This study examined the effect of dynamic GeoGebra-enhanced discovery learning environment on students' learning geometry, investigating the relationship between students' self-efficacy in geometry, attitude and their achievements.