

**Using igneous rocks to unravel tectonic history**  
**Professor Hanna Nekvasil**

The large diversity of igneous rocks on Earth make it difficult to use them to extract information on the Earth's tectonic history. However, identification of compositional suites and the cause of the compositional variation within suites provide a framework for relating even individual units to large scale tectonic environments. This talk will focus on the formation of magma and its differentiation products in these different environments and the signatures that allow them to be used to unravel geological history.

Hanna Nekvasil received her PhD in Geochemistry from Pennsylvania State University in 1985 and after a postdoc at Arizona State university and a brief visiting professorship at University of Arizona, joined the Department of Geosciences in 1988. Since that time she has worked in petrology with an emphasis on understanding igneous phenomena on Earth, Moon and Mars through experimental simulation.