

# Thermoremanent Magnetization

## **Thermoremanent Magnetization (TRM):**

Ferromagnetic minerals such as magnetite carry a remanent magnetization only at temperatures below the Curie Point. At higher temperatures they are paramagnetic, i.e. they respond to a magnetic field but they are not magnetized themselves. In a volcanic rock, magnetite crystals form during crystallization from magma at temperatures well above the Curie Point. When cooling below the Curie Point, these crystals acquire a remanent magnetization that is anti-parallel to the magnetic field at its location. This magnetization is called thermoremanent magnetization.