

Seminario

New high-pressure minerals in iron meteorites

Giovedì, 12 settembre – ore 15:00
Aula 2H

Relatore: **Prof. Litasov Konstantin D.**

Sobolev Institute of Geology and Mineralogy, Novosibirsk (Russia)



Abstract

The shock-melt veins and high-pressure minerals are common in chondritic and rare in other types of meteorites including martian and lunar samples. Shock-induced deformations, melt pockets, and other microstructural features are also common for iron meteorites. However, there were only few findings of high-pressure minerals, including stishovite in IVA iron meteorite Muonionalusta, $(\text{Fe,Ni})_2\text{P}$ -allabogdanite in anomalous Ni-rich ataxites Onello, Santa Catharina and Barbianello and tuite in IIE iron Elga. In the presentation the speaker will report new evidences for high-pressure microstructures in IIE iron Elga, made of Fe-Ni-P-S aggregates, which could be formed only at high pressures and temperatures according to the experimental phase diagrams.

Proponente: **Fabrizio Nestola**