Seminarios de la SEM

Sociedad Española de Mineralogía

CRYSTALLIZATION UNDER EXTREME CONDITIONS

Universidad de Oviedo, Edificio Histórico, July 4, 2017

SCOPE

The aim of this seminar is to bring together experts and early-stage researchers interested in the wide range of phenomena associated with mineral growth, dissolution, and replacement processes in extreme conditions, such as extremely acidic or alkaline natural and anthropogenic scenarios, confined environments, space and early solar nebula, ultrahigh pressures, etc. The seminar will include presentations by invited speakers and a poster & discussion session on related issues, including growth mechanisms at the crystal interface, growth patterns, self-assemblage of nanoparticles, biomineralization, mineral evolution, etc.

PROGRAM

9:00 Welcome

9:10-10:00 ***Mineral self-assembly under extreme geochemical conditions and its relevance to primitive life detection***
Juan Manuel García-Ruiz. LEC, CSIC, Universidad de Granada

10:10-11:00 ***Biomineralization in hydrothermal systems***
François Guyot. IMPMC, Université Pierre et Marie Curie, Paris

11:30-12:20 ***Crystallization in acidic media: from nanoparticles to macrocrystals***
Javier Sánchez España. Instituto Geológico y Minero de España

12:30-14:00 ***Posters***

15:00-15:50 ***Multi-step crystallization pathways in natural and engineered cements***
Alejandro Fernández-Martínez. CNRS & Univ. Grenoble Alpes

16:30-17:30 ***Short-presentations of posters and general discussion***