

# BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA



INSTITUTO DE FÍSICA  
“Luis Rivera Terrazas”



SEMINARIO EXTRAORDINARIO  
“DR. JESUS REYES CORONA”

“Some Remarkable Examples of Mineralogical  
Crystallography”

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It is clear that mineralogy depends strongly on crystallographic knowledge, techniques and methods. On the other hand, crystallography has its roots in mineralogy, although nowadays much crystallographic work pertains to objects related to biology. In this contribution several examples shall be described and discussed which rely in one way or the other on the close links between mineralogy and crystallography. The examples do not only cover the results of classical x-ray structure determination (here systems containing actinides will be presented), but also recent methodological progress, such as electron crystallography (i.e. structure determination of nano-crystals of the mineral charoite using electron diffraction intensities), study of periodic and non-periodic structural features of a lepidocrocite nano-crystalline hybrid structure, and some aspects of the classical boracite family, and its relationship with multiferroics.

**Auditorio-IFUAP**  
**Miércoles 30 de Abril de 2014**  
**13:00 Hrs.**