

## **Seminar of Department 18**

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### **GRAIN BOUNDARY SEGREGATION IN METALS**

Chemical composition of grain boundaries – grain boundary segregation – is an important property of metallic materials. Despite this phenomenon being studied for decades, its research still reveals many new interesting findings. We will discuss here some of the main experimental achievements such as grain boundary segregation in disordered and ordered alloys, grain boundary segregation diagrams, enthalpy-entropy compensation effect, as well as new modes of the segregation behavior – solvent and inverse segregation. An accent will be placed on the effect of entropy which winds through the entire phenomenon like Ariadne's thread and has an irreplaceable role in materials science.

Událost se koná v rámci projektu Feroické multifunkcionality,  
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