U okviru bilateralnog projekta između Srbije i Slovenije pod nazivom "*Micro- to nanoscale textures of ore minerals: methods of study and significance*", a na poziv Katedre za mineralogiju, Univerzitet u Beogradu – Rudarsko-geološki fakultet organizuje predavanje

u sredu, 28. novembra 2018. god. u 13 h

Studentski trg 12-16, IV sprat, Svečana sala (soba 733)

Predavanje će održati

Dr. Janez Zavašnik

Centre for Electron Microscopy and Microanalysis, Jožef Stefan Institute, Ljubljana, Slovenia, and *Max-Planck Institut fur Eisenforschung*, Düsseldorf (MPIE), Germany.

Naziv predavanja:

Applications of Advanced Electron Microscopy in Earth and Material Sciences

Abstract. In the last decade, characterization of natural and man-made materials by means of electron microscopy became one of the basic investigation techniques. The fast development of the investigation methods and accessibility of the scientific equipment, combined by introduction of novel research techniques, further unlocks our insight down to the atomic level. However, besides beautiful pictures, the data obtained from such investigations can be crucial for industrial processes, ore refinements, or for academia through designing or adjusting the synthesis, modification or tailoring of nano-particles and nano-structures for various applications in sensoria, catalysis, magnetism etc. In a short talk, some of the results from on-going research will be presented, starting with basic characterization using SEM, its extension into the world of crystallography by EBSD, the upgrade by FIB, and the introduction into the world of analytical TEM. The talk will be in English.

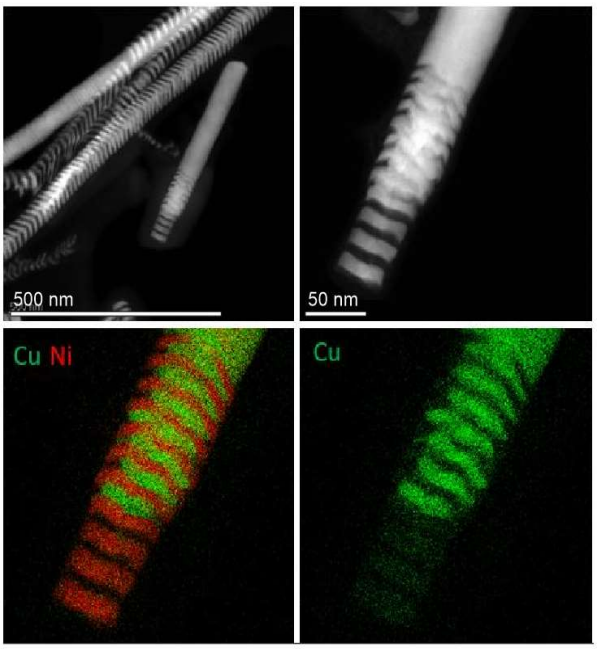

Figure. HAADF-STEM EDXS mapping of multi-layer Ni-Cu NWs with superior crystalline and magnetic properties.