

-4:00 pm, JB 127

Abstract: Nanoparticles are essential building blocks for manufacturing of nanostructured porous and dense coatings, which have unique properties such as ultrahigh hardness, thermal conductivity, strength, and wear resistance. Nanostructured coatings have significant potential applications in wear resistance with enhanced hardness and toughness. Diamond-Like Carbon (DLC) coatings prepared on aluminum

samples with energy dispersive spectroscopy, Raman spectroscopy, X-ray diffraction and scanning electron microscopy, and functional evaluation of DLC coatings using