

A presentation of the new nanoscopy facility and our goals at the University of Puerto Rico

Puerto Rico, represented by Maxime Guinel from the University of Puerto Rico, will present to the assembly its application for hosting the 2011 congress to be held in San Juan, PR.

In order to respond to the increasing needs for advanced characterizations for the wide variety of nanoscale materials that are prepared by my colleagues, three new instruments were procured. Electron microscopy techniques can indeed provide valuable answers to most research projects. Two high resolution transmission electron microscopes were purchased, a JEOL JEM-2100F and a Cs probe corrected JEOL JEM-2200FS. An excellent scanning electron microscope completes the suite, a JEOL JSM-7500F. They will all be installed during the summer in a new laboratory space and will nicely complement our existing facilities (conventional Zeiss LEO 922 TEM, and focused ion beam system). They integrate a wealth of hardware and software and can efficiently acquire valuable research information on clusters, nanocrystals and other nanostructures (images, diffraction patterns, elemental measurements to name a few). All three are modern instruments for the 21st century and will help promote scientific research and awareness in Puerto Rico. We are expecting remarkable progress to be made on innovative scientific technologies and research on novel nanofunctional materials.