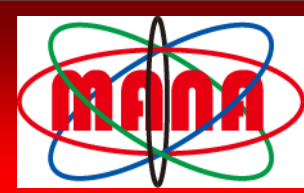


The 224th MANA Special Seminar



The investigation of nanoarchitecture and physical properties of three dimensional nanocomposite by atomic force microscopy Chair: Dr. Takao Aoyagi (MANA PI)

Dr. Michal J. Wozniak

(Biomaterials Group, University Research Centre, Functional Materials, Warsaw University of Technology, Poland)

Scanning Probe Microscopy (SPM) has emerged as a powerful tool in the imaging of various materials and probing their physicochemical properties. The nanocomposite is a blend of matrix with e.g. functional particles. The properties of such nanocomposites are remarkably different compared to conventionally filled composites. Improvement of volume properties (modulus, strength), surface properties (hardness, abrasion resistance, and surface energy), dimensional stability as well as improvements of functional properties e.g.: optical, electrical, magnetic, thermal, chemical stability or biocompatibility and bioactivity have been demonstrated. The SPM seems to be perfect tool for investigation of structure and physical properties of the nanocomposites.

Venue: Seminar Room #431-432, 4F, MANA Bldg., Namiki

Date: **October 6th (Thursday)** **Time:** **15:00-15:45**

Contact: International Center for Materials Nanoarchitectonics (MANA), Nakata (ex. 8806)

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