

Workshop on Microstructure Material Analysis

Sofia, April 17, 2015

The Technology Transfer Workshop on Microstructure Material Analysis was part of the AComIn Doors Open Days 17-18 April 2015 at IICT-BAS.

The program started with the presentation of Prof. Alexander Karamanov from the Institute of Physical Chemistry, Bulgarian Academy of Sciences entitled “*Structural characterization of the yellow pavement stones of Sofia*”. The talk was devoted to the complex study of the composition, structure and technology for production of this prominent symbol of Sofia, which was declared national heritage in the beginning of 2014 by the Sofia municipal council. Dr. Ivan Georgiev from IICT-BAS took part in the study in the area of CT microstructure analysis and characterization of porosity and inclusions distribution.



Assist. Prof. Julius Afzali from the Technical University of Sofia gave a talk entitled “*Assessment and diagnostics of computer hardware performance by digital radiography, thermography, and computed tomography*”. Presented results were obtained in close collaboration with colleagues from IICT-BAS, extensively using AComIn SmartLab devices.



The program continued with poster presentations of particular applications in the area of composite and porous materials. Promising new results were obtained by using the information for the micro structure of the studied materials, obtained by micro CT scanning and image analysis. New results concerning segmentation of CT data with volume preservation, were presented by Dr. Stanislav Harizanov from ICT-BAS.



About 30 participants from universities, academy and industry attended the scientific program and the following panel discussion.