

Introduction to Confocal Raman and Scanning Probe Microscopy

15th March 2013 – Ural Center for Shared Use “Modern Nanotechnology”, Ural State University Yekaterinburg

This workshop will give a detailed introduction to the operational principles and instrumental configurations relevant to confocal Raman and Scanning Probe Microscopy (AFM, SNOM, Pulsed Force Mode). Our Speakers will cover several aspects of Raman and SPM imaging and their fields of applications. An extensive system demonstration gives the participants the opportunity to see this knowledge applied materials and polymer sciences, archaeology and geoscience, forensics, coatings, thin films and all fields where a clear identification of the distribution of chemical compounds is a necessity using an alpha300 Microscope.

Participants are welcome to submit their individual samples at this workshop for evaluation in the WITec headquarter. Scientists interested in how to chemically identify and image the compounds of a sample at the highest spatial resolution are invited to participate. Typical research fields for confocal Raman imaging are pharmaceuticals and cosmetics, materials and polymer sciences, archaeology and geoscience, forensics, coatings, thin films and all fields where a clear identification of the distribution of chemical compounds is a necessity.

Program

Friday, 15th of March 2013

11.00 - 11.05	Welcome	Prof Vladimir Shur <i>Director Ural Center for Shared Use “ Modern Nanotechnology”</i>
11.05 - 11.15	WITec Introduction	Mr Radmir Khasaya <i>WITec Local Partner, Moskau</i>
11.15 - 12.00	Combining High Resolution and Scanning Probe Microscopy	Dr Fernando Vargas <i>WITec Application scientist; Germany</i>
12.15 – 13.45	Get together / Discussion / Equipment Demonstration Cafe break	

Workshop venue: Conference room “Modern Nanotechnology”
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