

SNOM, AFM and Raman Imaging

Scientific multi-tool for high-resolution 3D chemical,
optical & surface structural imaging

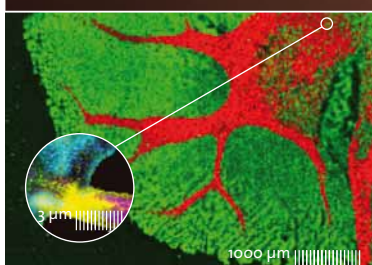
Online Seminar

Tuesday, 1. June 2010

5:00 PM CEDT (Berlin)

4:00 PM BST (London)

11:00 AM EDT (New York)



Raman large area scan of a hamster brain cross-section and high-resolution zoom-in Raman image at the marked area.



Confocal Raman Microscope alpha300 R

A comprehensive knowledge of the optical, structural and chemical properties of a sample is crucial for advanced materials research and life science and requires sophisticated imaging techniques. WITec is a technological pioneer and was the first company to establish Confocal Raman Imaging as a tool for routine chemical component analysis. With a modular microscope setup allowing the combination of Raman, AFM and SNOM in one instrument, WITec initiated the current boom in combined Raman/SPM Systems.

Webinar Outline

The webinar will introduce the principles of state-of-the-art Confocal Raman Imaging, AFM and SNOM. Various examples of applications will highlight the potential of these techniques for 3D chemical imaging and material properties analysis. Additionally, the advantages of combining Confocal Raman Imaging with Atomic Force Microscopy for a more comprehensive characterization of a sample will be discussed.

- **Confocal Raman Imaging for high resolution 3D chemical imaging**
- **Surface topography imaging with Atomic Force Microscopy**
- **Techniques for achieving optical resolution below the diffraction limit with a cantilever-based SNOM system**
- **Detection limits and acquisition speed**
- **Advantages of an integrated Confocal Raman / AFM system**
- **Examples from various fields of application**

Presenters

Dr. Thomas Dieing, Director Customer Support, WITec GmbH, Germany

Dr. Ute Schmidt, Applications Manager, WITec GmbH, Germany

<http://www.microscopy-analysis.com/witecwebinars>

Confocal . Raman . Fluorescence . AFM . SNOM

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WITec GmbH, Ulm, Germany
Tel. +49 (0)731 140700, info@witec.de

www.witec.de