

workshop

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WITec
focus innovations

Introduction to Confocal Raman and Scanning Probe Microscopy November 18., 2009, UNAM-Institute of Materials Science and Nanotechnology, Ankara, Turkey

The 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). Speakers from universities and industry will cover several aspects of Raman and SPM imaging and its

fields of applications. An extensive hands-on session gives the participants the opportunity to apply this knowledge and to evaluate their individual samples. 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.

Preliminary Program

Wednesday, 18. November 2009

09.00 - 09.30

09.30 - 09.45

09.45 - 10.00

10.00 - 10.45

10.45 - 11.00

11.00-11.30

11.30-12.00

12.00-12.45

12.45 - 13.15

13.15-15.30

Mr. Serkan Sezer

Prof. Mehmet Bayindir

Dr. Thomas Dieing

Prof. Dr. Aykutlu Dana

Dr. Gürer G. Budak &

Dr. Fatih Büyükerin

Dr. Thomas Dieing

Registration & Coffee

Welcome and Introduction SYN Biotechnology Ltd.

Introduction and Presentation of Bilkent University UNAM

Combining High-Resolution Optical and Scanning Probe Microscopy

Coffee Break

Invited Talk of Bilkent University UNAM - Microscopy at UNAM

Invited Talk of Gazi University - Nanomedicine, Clinical Applications of Nanotechnology

Lunch Break, incl. Lunch Snack

Various Application Examples of Confocal Raman Imaging

Equipment Demonstration, Hands-On Session & Discussion



Fig. 1: WITec alpha500 Automated Confocal Raman & Atomic Force Microscope.

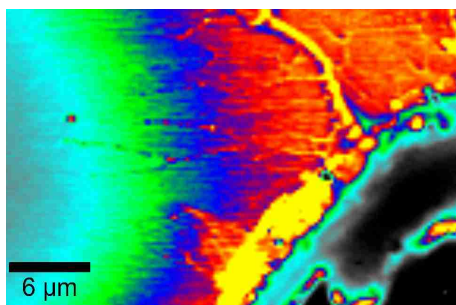


Fig. 2: Splash of Si on a Si-Solar cell device (integral intensity of the 1st order Si peak).

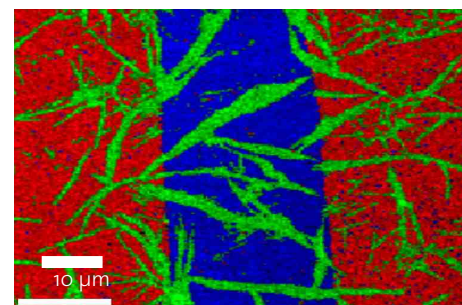


Fig. 3: Color-coded confocal Raman image of a 7.1 nm PMMA layer (red) and 4.2 nm contamination layer (green) on glass (blue).

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Speakers

Mr. Serkan Sezer

Mr. Sezer is General Manager at SYN Biotechnology and Foreign Trade Ltd. Co., Ankara, Turkey.

Prof. Dr. Aykutlu Dana

Dr. Dana is Research Assistant Professor at the UNAM-Institute of Materials Science and Nanotechnology, Ankara, Turkey.

Dr. Fatih Büyükserin

Dr. Büyükserin is Research Associate at the Gazi University in Ankara, Turkey.

Prof. Mehmet Bayindir

Prof. Bayindir is Assistant Director at the UNAM-Institute of Materials Science and Nanotechnology, Ankara, Turkey.

Dr. Gürer G. Budak (MD, PhD)

Dr. Budak is Assistant Professor at the Faculty of Medicine - Nanomedicine Research Laboratory at the Gazi University in Ankara and also Director at the NanoMedicine &

Dr. Thomas Dieing

Dr. Dieing is a Physicist and Director of Customer Support at WITec GmbH, Ulm, Germany.

Advance Technology Research Center. He is also Delegate at the European Commission NMP Programme Committee and a Member at the European Technology Platform on Nanomedicine.

General Information

The workshop is free of charge but it requires registration due to limited availability of places. In order to register, please fill in the form below and mail or fax it to SYN Biotechnology Ltd. (Fax: +90 312 437 77 09). You may also send your contact information electronically to

serkan@synbio.com.tr

The number of participants is limited, so book early to save your place.

Workshop venue:

UNAM-Institute of Materials Science and Nanotechnology
06800 Bilkent
Ankara
Turkey

Local Contact Person:

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Registration

I would like to register for the Workshop.

Institution:

E-mail:

Name and Title:

Address:

Phone:

Signature:

Fax: