

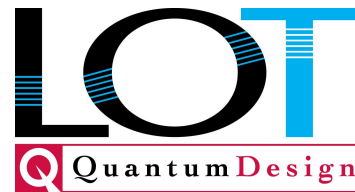
workshop
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WITec
focus innovations

WITec GmbH · Lise-Meitner-Str 6 · 89081 Ulm
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3D Raman Imaging and Correlative Scanning Microscopy Techniques June 12th, 2014 - Università di Bologna Bologna, Italy



This workshop will give a detailed introduction to the operational principles and instrumental configurations relevant to confocal Raman Imaging and Scanning Microscopy (SEM, 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 using an alpha300 RSA+ (combined AFM, SNOM & Confocal Raman 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 materials and polymer sciences, thin films, coatings, pharmaceuticals and cosmetics, archaeology and geoscience, forensics and all fields where a clear identification of the distribution of chemical compounds is a necessity.

Program

Thursday, 12th of June 2014

10.00 - 10.15	
10.15 - 10.30	Dr. Stefano Schutzmann
10.30 - 11.30	Dr. Elena Bailo
11.30 - 11.45	
11.45 - 12.15	Dr. Barbara Cavalazzi
12.15 - 12.45	Dr. Gianluigi Zito
12.45 - 13.00	Dr. Stefano Schutzmann
13.00 - 14.00	
14.00 - 15.30	

Registration & Coffee

Welcome WITec & LOT Quantum Design, Italy
3D Raman Imaging Meets SEM, AFM, SNOM and Profilometry
Coffee Break

Applications of Raman Techniques in Earth Sciences
Tip-Enhanced Raman Scattering (TERS) Analysis of Bacillus Subtilis Spore
Combining Techniques - The Modular WITec Product Portfolio
Lunch Break (including Lunch Snack)
Equipment Demonstration



Speakers

Dr. Stefano Schutzmann

Dr. Schutzmann is Sales Manager at LOT-Quantum Design s.r.l., Rome, Italy.

Dr. Gianluigi Zito

Dr. Gianluigi Zito is Postdoctoral Research Fellow at University of Napoli Federico II, Dipartimento di Scienze Fisiche.

Dr. Elana Bailo

Dr. Bailo is Area Manager Spain & Portugal and Head of the WITec branch office in Barcelona, Spain.

Dr. Barbara Cavalazzi

Dr. ssa Barbara Cavalazzi is Assistant Professor at University of Bologna, Dipartimento di Scienze Biologiche, Geologiche e Ambientali.



Fig. 1: WITec alpha500 Microscope System with TrueSurface Microscopy Mode

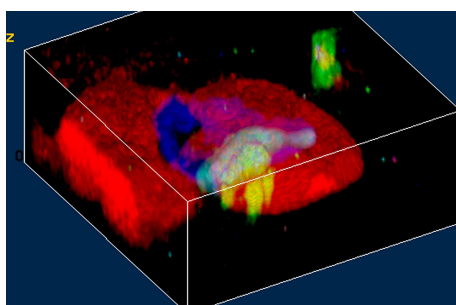


Fig. 2: 3D Raman Image of a fluid inclusion in Garnet

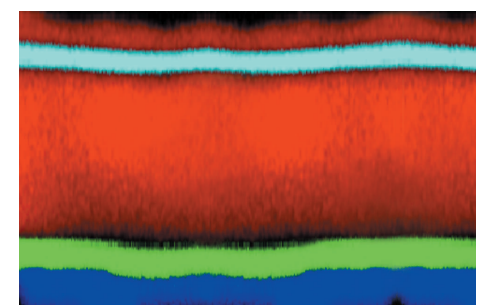


Fig. 3: Raman Image of a Multi-layer polymer coating.

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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 fax it to Dr. Stefano Schutzmann. (Fax: +39 065010389). You may also send your contact information electronically to schutzmann@lot-qd.it

The number of participants is limited, so book early to save your place. The language of the workshop is English.

Workshop venue:
Università di Bologna
Dip. Scienze Biologiche, Geologiche e
Ambientali, Sezione Geologia
Via Zamboni, 67
40126 Bologna, Italy

Workshop Room: Aula G2

Local Organizers: Dr. Barbara
Cavalazzi, Prof. Giovanni Gabbianelli,
Sig.ra Luisa Villani

Local Contact Information
Dr. Stefano Schutzmann
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Fax.: +39 06 5010389
E-Mail: schutzmann@lot-qd.it
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Registration

I would like to register for the Workshop.

Name and Title:

Institution:

E-mail:

Signature:

Address:

Phone:

Fax:

Fax or e-mail to: Dr. Stefano Schutzmann. Fax: +39 065010389 . E-mail: schutzmann@lot-qd.it