

New perspectives in nano-analysis with correlative 3D Raman imaging

Workshop and hands-on session

June 11th, 2019

Università di Bologna, Dip. Scienze Biologiche, Geologiche e Ambientali, Sezione Geologia
Aula G2

P.za Porta San Donato, 1 - 40126 Bologna, Italy

Correlative microscopy combines the advantages of different techniques to facilitate an enhanced characterization of samples. Scanning electron microscopy and Atomic Force Microscopy are powerful methods for investigating surface structures on the nanometer scale.

Confocal Raman imaging is a non-destructive, label-free approach that can chemically identify the molecules in a sample in 3D.

The presentation will show the hybrid techniques which can be realized with the WITec confocal Raman imaging microscope platform.

An extensive system demonstration gives the participants the opportunity to see this knowledge applied using an apyrion 3D Confocal Raman Imaging System. 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.

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		<i>Registration</i>
09.30	Dr. Stefano Pergolini	Welcome WITec & LOT Quantum Design, Italy
09:45	Dr. Nour Hafi	3D Raman Imaging & Correlative Microscopy techniques – An Introduction
10:45		<i>Coffee Break</i>
11.00	Dr. Nour Hafi	Principles of data evaluation for correlative Raman, SEM and AFM measurements
11.30	Dr. Nour Hafi	Hands-on session and measurement workflow demonstration at a confocal Raman Imaging system
12.30		<i>Open discussion</i>

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Dr. Stefano Pergolini

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

Dr. Nour Hafi

Dr. Hafi is an Applications Scientist at WITec GmbH in Ulm, Germany.

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LOT-QuantumDesign s.r.l.
WITec GmbH

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Dr. Paolo Garofalo
Dr.ssa Assimo Maris

Local Organizer:

Dr.ssa Barbara Cavalazzi





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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 e-mail or fax it to LOT-QuantumDesign:

E-mail: marketing@lot-qd.it

Fax: +39 065010389

You may also send your contact information electronically to marketing@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
P.za Porta San Donato, 1
40126 Bologna, Italy

Workshop Room: Aula G2

Local Organizer: Dr. Barbara
Cavalazzi

Local Contact Information

Dr. Stefano Pergolini
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E-Mail: pergolini@lot-qd.it
www.lot-qd.it

Registration form

I would like to register for the Workshop.

Title:

Name and Surname:

Institution:

Department:

Address:

E-mail:

Phone:

I would like to receive your newsletter on products update and future events: YES NO

Signature:

Fax or e-mail to LOT-QuantumDesign. Fax: +39 065010389 . E-mail: marketing@lot-qd.it

