

Symposium

Confocal Raman Imaging

The full spectrum of cutting-edge applications and techniques

05. - 06. October 2010 – Ulm, Germany

New Format: Including
Poster Session

WITec
focus innovations

Confocal

Raman

AFM

SNOM



Confocal Raman Imaging

The full spectrum of cutting-edge applications and techniques

05.-06.10.

The symposium will give a detailed introduction to the operational principles and instrumental configurations relevant to confocal Raman microscopy. Speakers from universities and industry will cover several aspects of modern Raman imaging and its fields of applications. The Symposium will provide the opportunity for in depth discussion and close interaction with leading scientists and users of WITec microscope systems from various fields of application.

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 geology, forensics, coatings, thin films and all fields where a clear identification of the distribution of chemical compounds is a necessity. The Symposium consists of invited talks in a plenary session as well as a contributed poster session.

Program

Symposium

Tuesday, October 05, 2010

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|---------------|----------------------------------|---|
| 09.00 – 09.30 | | <i>Registration & Coffee</i> |
| 09.30 – 09.45 | | <i>Welcome</i> |
| 09.45 – 10.45 | Prof. Sebastian Schlücker | The Principle of Raman Spectroscopy and its Application in Microscopy |
| 10.45 – 11.15 | | <i>Coffee</i> |
| 11.15 – 12.00 | Dr. Olaf Hollricher | Confocal Raman Microscopy: Instrumentation, Configurations and Accessories |
| 12.00 – 12.30 | Dr. Ute Schmidt | Combining Confocal Raman & Atomic Force Microscopy: Instrumentation and Applications |
| 12.30 – 13.15 | | <i>Lunch Break</i> |
| 13.15 – 13.45 | Dr. Jean Alié | Analytical Raman Imaging of Various Pharmaceutical Forms and Products |
| 13.45 – 14.15 | Tatyana Chernenko | Imaging of Nano-Drug-Delivery Carriers Using Raman Microspectroscopy |
| 14.15 – 14.45 | Dr. Bayden Wood | Monitoring Biomolecules in Cells Using Confocal Raman Imaging |
| 14.45 – 15.15 | Dr. Frances Westall | Using Raman Spectroscopy to Study Ancient Traces of Life |
| 15.15 – 15.45 | | <i>Coffee</i> |
| 15.45 – 16.15 | Prof. T. Pradeep | A Journey into Nanoparticles, Nanowires, Nanotubes and Nanosheets Using Raman Spectroscopy and Microscopy |
| 16.15 – 16.45 | Prof. Jonas Beermann | Surface Enhanced Raman Microscopy with Metal Nanoparticle Arrays |
| 16.45 – 17.15 | Dipl. Phys. Paul Gundel | Quantitative Raman and Micro-Photoluminescence Spectroscopy on Silicon for Solar Cells |
| 18.00 – 19.00 | | Contributed Poster Session New! |
| 19.00 | | <i>Dinner / Get Together</i> |

Wednesday, October 06, 2010

| | | |
|---------------|--------------------------------|--|
| 09.00 – 09.30 | | <i>Coffee</i> |
| 09.30 – 12.00 | Equipment Demonstration | - Confocal Raman Imaging - Combining AFM & Raman Imaging - Large Area & Automated Measurements - WITec Project Data Evaluation Software |
| 12.00 – 12.30 | | <i>Lunch Snack & Wrap Up</i> |

Invited Speakers

Prof. Dr. Sebastian Schlücker

Prof. Schlücker is head of the molecular biophotonics and laser spectroscopy group at the Department of Physics, University of Osnabrück, Germany.

Dr. Olaf Hollricher

Dr. Hollricher is managing director at WITec and head of Research & Development.

Dr. Ute Schmidt

Dr. Schmidt is an Application Scientist at WITec.

Dr. Jean Alié

Dr. Alié is with Sanofi-Aventis in Montpellier, France and head of the solid state characterization laboratory for active pharmaceutical ingredients and final products.

Tatyana Chernenko

Tatyana Chernenko is research associate with the „Laboratory for Spectral Diagnosis“, Department of Chemistry and Chemical Biology at Northeastern University, Boston, USA.

Dr. Bayden Wood

Dr. Wood is Australian Research Council Queen Elisabeth II Fellow at Monash University, Australia. His main research focus is vibrational spectroscopy of tissues, cells and biomolecules.

Dr. Frances Westall

Dr. Westall is Director of research at the CNRS and head of the Exobiology group at the „Centre de Biophysique Moléculaire“, Orléans, France. Dr. Westall is a geologist specialising in the oldest traces of life.

Prof. T. Pradeep

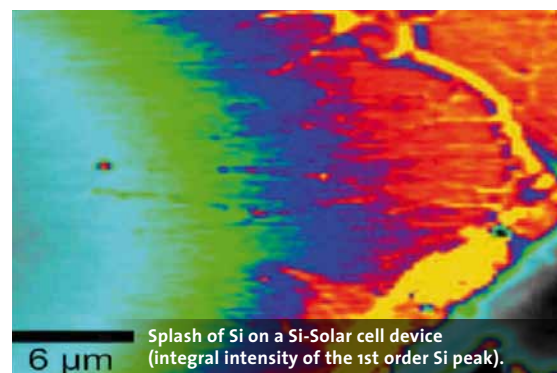
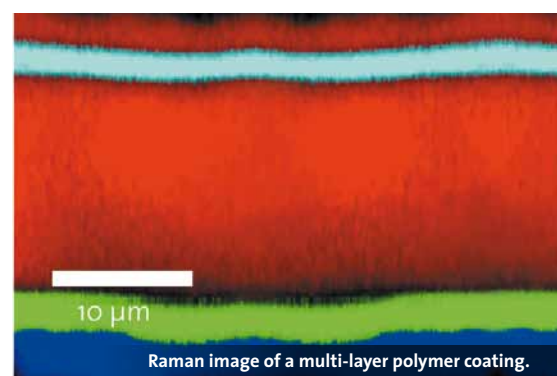
Prof. Pradeep is head of the nanoscience research unit of the department of chemistry and sophisticated analytical instrument facility at the Indian Institute of Technology (IIT) in Madras, India.

Prof. Jonas Beermann

Dr. Beermann is Assistant Professor at the Institute of Sensors, Signals and Electrotechnics at the University of Southern Denmark primarily working on SERS and Plasmonics.

Dipl. Phys. Paul Gundel

Dipl. Phys. Paul Gundel is PhD student at the Fraunhofer Institute for Solar Energy Systems ISE in Freiburg, Germany. His main research interest is Raman and Photoluminescence spectroscopy and imaging on photovoltaic materials.



Registration

Registration and Symposium Fee

In order to register, please fill in the form below and mail or fax it to WITec or send your contact information to events@witec.de. The number of participants is limited, so book early to save your place.

The fee of **260.00 Euro (+VAT)** for industrial and **195.00 Euro (+VAT)** for academic participants **includes training material and meals. Presenters of a poster will receive a 30% discount.** An invoice for the participation fee will be issued upon confirmation. Hotel arrangements must be made by the participants themselves.

The first day of the workshop will take place at „Sparkasse Neue Mitte, Hans-und-Sophie-Scholl Platz 2“, the second day at the WITec Headquarters, both located in Ulm, Germany.

Any cancellations prior to September 24. 2010 are free of charge. For cancellations after this date, we charge 30% of the initial fee. The language of the workshop is English.

Contributed Poster Session

Participants are encouraged to submit an abstract for the poster session. A template including an instruction on how to arrange the abstract can be downloaded at <http://www.witec.de/en/download/Raman/WITecAbstract2010.doc>.

The abstract should be sent by e-mail to events@witec.de along with the registration. **Abstract deadline is September 3rd.**

www.witec.de

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Please fill in and send to fax: **+49 (0) 731 140 70200**
or send your contact information to
events@witec.de

Name and Title:

Institution:

Address:

Country:

E-mail:

Phone: / Fax:

I will submit an Abstract
for the Poster Session:

YES

NO

Hotel Information

For a hotel list and tourist information
please visit: <http://www.tourismus.ulm.de>

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