



1st Short Course on Time-Resolved Microscopy & Correlation Spectroscopy

**17 - 19 February 2009
Berlin - Adlershof, Germany**

http://www.picoquant.com/_mic-course.htm

Preliminary Program (per September 2008)

| | Tuesday, 17.2. | Wednesday, 18.2. | Thursday, 19.2. |
|---------------|--|---|---|
| 9:00 - 10:30 | Introduction to Microscopy Johan Hofkens | Hardware for Time-resolved Microscopy & Data Analysis Rainer Erdmann | Fluorescence Correlation Spectroscopy Jörg Enderlein |
| 10:30 - 11:00 | Coffee Break | Coffee Break | Coffee Break |
| 11:00 - 12:30 | Steady State Techniques Jens Rietdorf | Fluorescence Lifetime Imaging Paul French | Förster Resonance Energy Transfer Fred Wouters |
| 12:30 - 13:30 | Lunch Break | Lunch Break | Lunch Break |
| 13:30 - 15:30 | Hands-On Session 1 | Hands-On Session 3 | Hands-On Session 5 |
| 15:30 - 16:00 | Coffee Break | Coffee Break | Coffee Break |
| 16:00 - 18:00 | Hands-On Session 2 | Hands-On Session 4 | Hands-On Session 6 |
| | Reception | Course Dinner | |

Aims & Purpose

The course is intended for individuals wishing an in-depth introduction to the principles of time-resolved fluorescence microscopy and its applications to the Life Sciences. Attendees are typically professionals who are using or intend to use fluorescence microscopy in their research. Most attendees have some knowledge of fluorescence, typically in a specialized area. However, other individuals, from totally different research areas and industry, get the opportunity to enter this exciting field in a very effective way and benefit especially from the experimental section.

The event lasts three days and includes lectures in the morning and hands-on sessions in the afternoon.

Course Instructors

- **Jörg Enderlein**, Professor at the University of Göttingen, Germany
- **Paul French**, Head of the Photonics group at the Imperial College London, UK
- **Johan Hofkens**, Head of the single molecule and fluorescence microscopy group in the laboratory for photochemistry and spectroscopy, division for molecular and nanomaterials, department for chemistry, KU Leuven, Belgium
- **Jens Rietdorf**, Head of the Microscopy and Imaging Core Facility of the Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland
- **Fred Wouters**, Professor at the University Medicine Göttingen, Germany
- **Rainer Erdmann**, Managing Director of the R&D company PicoQuant GmbH

Registration & Fees

| | before December 15 | after December 15 |
|---------------------------|--------------------|-------------------|
| Academic / University | 500 € | 700 € |
| Industry / Private Sector | 1000 € | 1400 € |

Please note that special cancellation conditions apply:

Cancellation before January 15: 75% refund, Cancellation after January 15: 25% refund

As the number of places is limited, we encourage everyone to register as soon as possible. To register, please use the *online registration form* at our webpage.

Besides full course attendance, the fee includes all coffee breaks, 1 reception, 1 dinner, daily lunch, course materials and the use of instruments. Attendees will be responsible for their own travel, lodging and meals.

Hands-on Session, Participating Companies and Products

The following companies offer hands-on experimentation (in alphabetical order, subject to changes):

- **Leica:** TCS SP5 - a confocal laser scanning microscope, upgraded to lifetime capabilities
- **Nikon:** A1 - a confocal laser scanning microscope, upgraded to lifetime capabilities
- **Olympus:** FluoView FV1000 - a confocal laser scanning microscope, upgraded to lifetime capabilities
- **PicoQuant:** MicroTime 200 - a time-resolved confocal fluorescence microscope and LSM Upgrade Kits - enable time-resolved measurements (FLIM, FCS, ...) with laser scanning microscopes

The topics covered during the hands-on sessions include steady-state microscopy, FLIM, FCS, FCCS, FLCS, Single Molecule Spectroscopy, (FLIM)-FRET and data analysis.

Participants will be divided into groups that rotate through the hands-on stations. This ensures that every participant will have the chance to familiarize himself with the broad range of techniques and methods of fluorescence (lifetime) microscopy.

Accommodation

We have negotiated special rates for two hotels, that are located in walking distance to the course location. Prices, booking codes and further details can be found at our webpage.

Location

The course will be held at the WISTA campus Berlin-Adlershof, Germany.

Contact

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