

Press Release

For immediate release
4 April 2012



PicoQuant to hold 18th International Single Molecule Workshop

The annual event will bring together researchers working on ultrasensitive optical detection down to the single molecule level

Berlin (Germany), 4 April 2012 – The 18th International Workshop on “Single Molecule Spectroscopy and Ultra Sensitive Analysis in the Life Sciences” will be held from September 5 to 7, 2012 in Berlin, Germany. The workshop provides an interdisciplinary platform for users as well as developers from Physics, Chemistry and Biology to exchange experience and report their recent findings and developments in the field of ultrasensitive optical detection down to the single molecule level and below the classical diffraction limit.

Seven distinguished researchers will present their recent findings in the field. Contributed oral and poster presentations complete the official program. A welcome reception and a dinner give participants the opportunity to meet the invited speakers and the other attendees. Invited speakers are Sohail Ahmed, Kankan Bhattacharyya, Mike Heilemann, Edward Lemke, Everett Lipman, Tetsuro Majima and Ulrich Nienhaus.

Abstracts can be submitted until May 31, 2012.

Registration is open until August 15, 2012.

Date: September 5-7, 2012
Location: WISTA-Campus, Berlin-Adlershof, Germany
Contact: PicoQuant GmbH, Nicole Bornemann
www.picoquant.com/_workshop.htm
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Invited Speakers

- Sohail Ahmed (Institute of Medical Biology, Singapore)
"DNA Dependent Oct4 and Sox2 Complex Formation and Dynamics in Living Cells"
- Kankan Bhattacharyya (Indian Association for the Cultivation of Science, India)
"Study of Protein, Vesicles and Ionic Liquids Using FCS"
- Mike Heilemann (Julius-Maximilians-University Würzburg, Germany)
"Quantitative Single Molecule Biology with Photoswitchable Fluorophores"

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- Edward Lemke (EMBL Heidelberg, Germany)
"Single Molecule, Microfluidic, and Genetically encoded Chemical Tools to Study Protein Structure and Function"
- Everett Lipman (University of California Santa Barbara, USA)
"Monitoring Biological Information Processing with Molecular Instrumentation"
- Tetsuro Majima (Osaka University, Japan)
"Single Molecule Imaging of TiO₂ Photocatalytic Reactions"
- Ulrich Nienhaus (Karlsruhe Institute of Technology, Germany)
"Quantitative Fluorescence Microscopy of Nanoparticles Interacting with Proteins and Cells"

Excerpt of topics

Applications and new developments of single molecule detection techniques, such as widefield and confocal fluorescence microscopy, Scanning Nearfield Optical Microscopy (SNOM), Atomic Force Microscopy (AFM) and high-resolution microscopy, i.e. STED (Stimulated Emission Depletion), PALM (Photo-Activated Localization Microscopy) or STORM (Stochastic Optical Reconstruction Microscopy); for applications in current biological, biophysical and biochemical research projects.

Call for papers

Abstracts can be submitted until May 31, 2012.

Registration

Registration deadlines are May 31, 2012 for early bird fees, August 15, 2012 for the regular fee.

Student Award

PicoQuant will award the best student talk with a prize of 750 Euro.

About PicoQuant

PicoQuant GmbH is a research and development company in the field of optoelectronics. The company was founded in 1996 and is based in the science and technology park Berlin-Adlershof, Germany. The company is a worldwide leader in the field of single photon counting applications. The product line includes pulsed diode lasers and LEDs, photon counting instrumentation, fluorescence lifetime spectrometers and time-resolved confocal microscopes. PicoQuant employs currently around 50 people. Since April 2008 Sales and Support in North America is handled by PicoQuant Photonics North America Inc.

**Attachment:**

Picture of the Workshop in 2011: workshop2011.jpg

Caption: Participants of the Single Molecule Workshop in 2011 discussing ideas during the poster session.

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