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**Press Release**

**PicoQuant Combines Fluorescence Spectroscopy and Microscopy**

**Novel fiber coupling sample holder opens new opportunities for investigating spatial dependence of luminescence behavior**

**Berlin (Germany), 27 October 2016** – PicoQuant has released a new fiber coupling sample holder for the modular time-resolved spectrometer FluoTime 300. This holder makes it possible to interface the system with a microscope such as the MicroTime 100. This set-up easily allows users to record time- and space-resolved emission spectra from any sample mounted in the microscope.

Time-resolved fluorescence spectroscopy is a spectroscopist's most valuable tool for the investigation of excited state dynamics in molecules, complexes, or semi-conductors. Expanding the capabilities of a spectrometer with a microscope's ability to probe and scan small areas provides exciting opportunities for investigating the spatial dependence of luminescence behavior in a large variety of samples. As an example, this combination allows localizing and characterizing structural defects in semi-conductor materials such as Copper Indium Gallium (di)Selenide (CIGS) used in solar cell research.

Such an instrument combination is of great value for analytical facilities in research centers, as it offers an expanded range of possible spectroscopic and microscopic applications in a single, easy to use set-up. When equipped with hybrid detectors, versatile TCSPC cards with optional longer time ranges, and pulsed lasers capable of working in burst mode, the set-up offers a combined solution covering most of the demands of either high time, spectral, or spatial resolution in the fields of Chemistry, Biology, Physics, as well as in Life, Material or Environmental Sciences.



**About PicoQuant**

PicoQuant 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 60 people. Since April 2008 Sales and Support in North America is handled by PicoQuant Photonics North America Inc.

**Attachment**

Picture of the new fiber coupling sample holder

Caption: The new fiber coupling sample holder allows interfacing time-resolved microscopes to the FluoTime 300 fluorescence spectrometer.

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