

Workshop: “Bioanalytical and Biomedical Applications of Fluorescence Techniques: Instrument Characterization and Validation, Traceability and Need for Reference Materials”

1-Day Workshop: June 16, 2003. Enrollment Fee: ~150 €

The aim of this 1-day workshop held at BERM-9 in Berlin, Germany, is the discussion of the current state of quality assurance in bioanalytically and biomedically applied fluorescence techniques. In particular, strategies to implement, improve, and simplify quality assurance according to EN ISO/IEC 17025, and to facilitate inter-laboratory comparability of fluorescence data, as well as instrument characterization and performance validation, will be presented. Different fluorescence techniques such as steady-state and time-resolved fluorometry, laser flow cytometry, confocal fluorescence microscopy, molecular imaging, and fluorescence endoscopy will be discussed with respect to method-related problems and the need for and the requirements of reference materials. In addition, the current state of available fluorescence standards will be reviewed.

Key topics include:

- Fluorescence techniques relevant for bioanalytical and biomedical applications
- Method-related problems
- Need for and requirements of reference materials
- EN ISO/IEC 17025-imposed requirements on luminescence techniques and quality assurance
- Traceability of fluorometry
- Regulations and recommendations in fluorometry

For further information, please contact the workshop organizers, *Dr. Ute Resch-Genger*, Federal Institute for Materials Research and Testing (BAM), ute.resch@bam.de, or *Dr. Rainer Macdonald*, Physikalisch-Technische Bundesanstalt (PTB), rainer.macdonald@ptb.de.