

*Announcement of a Short Course on*  
**PRINCIPLES AND APPLICATIONS OF**  
**TIME-RESOLVED FLUORESCENCE SPECTROSCOPY**  
**March 22–26, 2004**

**Center for Fluorescence Spectroscopy**  
**Department of Biochemistry and Molecular Biology,**  
**University of Maryland Medical School,**  
**725 West Lombard St., Baltimore, Maryland 21201**  
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<u>Course Chairman:</u>	<u>Course Instructors:</u>	<u>Guest Lecturers:</u>
Joseph R. Lakowicz	Richard Thompson Chris D. Geddes Zygmunt Gryczynski	Daniel Farkas, Carnegie Mellon Univ. (Microscopy) Michael L. Johnson, Univ. of Virginia (Data Analysis) Peter So, MIT (Correlation Spectroscopy) Jack Owicki, Independent Consultant (High Throughput Screening)

### **I. Basics of Time Resolved Fluorescence Spectroscopy (two days)**

Section I covers the basics of time-resolved fluorescence spectroscopy and instrumentation, and is aimed at persons having modest familiarity with fluorescence. Section I will cover the principles of fluorescence, time and frequency-domain measurements, instrumentation, anisotropy, excited state reactions, and Förster energy transfer, as well as data analysis. The course also includes "hands on" experimentation, data analysis, and an exhibit of time-resolved instrumentation.

### **II. Applications of Time-Resolved Fluorescence Spectroscopy (two and one-half days)**

Section II describes the newer techniques in time-resolved fluorescence, together with advanced applications of fluorescence in sensing, fiber optics, infrared fluorometry, two- and multi-photon excitation, instrumentation, confocal and correlation spectroscopy. This part of the course will include guest lectures on fluorescence imaging and sensing, fluorescence microscopy, protein fluorescence, high throughput screening, lanthanides and immunoassays. This section is for persons acquainted with time-resolved fluorescence measurements, or who will have completed Section I. The course will finish by noon on Friday.

Course materials, continental breakfast, refreshments, and daily lunches will be provided. The course will be held in Baltimore at the University of Maryland School of Medicine in the Center for Fluorescence Spectroscopy, from 8:00 am to 6:00 pm. Fees are listed below. We request that attendees complete enrollment by February 15, 2004. Fees are payable by check in U.S. dollars. In exceptional circumstances fee reductions or waivers may be granted; please contact the Course Chairman. Attendees will be responsible for their own travel, lodging, and meals; however, the Course Coordinator has arranged a block of rooms at a nearby hotel at a favorable rate for attendees who wish to stay there. Financial assistance is available upon request.

Section	Course Fees:		
	I	II	I + II
Industry/Private Sector	\$1250	\$1250	\$2100
Academic/Government	\$600	\$600	\$1100

Financial assistance is available to academic scientists. Please make checks payable to "University of Maryland," and send to: Course Coordinator, Center for Fluorescence Spectroscopy, Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, 725 West Lombard Street, Baltimore, MD, 21201.

For registration form, questions and comments about the course, fees, or travel and lodging arrangements, please contact the Course Coordinator, Mary Rosenfeld at (410) 706-8409 or FAX (410) 706-8408 e-mail: cfs@cfs.umbi.umd.edu or visit our web site at <http://cfs.umbi.umd.edu>