

The Center for Commercialization of Fluorescence Technologies announces

The Short Course on Cellular and Molecular Fluorescence



December 1-5, 2008

University of North Texas Health Science Center, Fort Worth, TX 76107

- Principles of fluorescence spectroscopy and microscopy
- Instrumentation for fluorescence
- Fluorescence correlation spectroscopy and single molecule detection
- Total internal reflection spectroscopy and microscopy
- Plasmonics
- Nonlinear fluorescence

Lecturers

Professor Thomas P. Burghardt, PhD
Mayo Foundation, Rochester, MN

Professor Sabato D'Auria, PhD
NRC, Naples, Italy

Professor Elliot L. Elson, PhD
Washington University at St. Louis, MO

Professor Enrico Gratton, PhD,
University of California, Irvine, CA

Professor Zygmunt (Karol) Gryczynski, PhD,
UNTHSC, Fort Worth, TX

Professor David M. Jameson, PhD,
University of Hawaii at Manoa, HI

Professor Thomas M. Laue, PhD
University of New Hampshire, Durham, NH

Professor Steffen B. Petersen, PhD,
Nanobiotechnology Group,
University of Aalborg, Denmark

Instructors, Consultants from UNTHSC

Professor Julian Borejdo, PhD
Professor Nils Calander, PhD
Professor Ignacy Gryczynski, PhD
Associate Professor Gabor Laczko, PhD
Assistant Professor Evgenia Matveeva, PhD

Participating Companies:

TIRF Technologies, Inc.;
ISS, Inc.;
PicoQuant, Inc.;
Varian Inc.;
Leeds Precision Instruments, Inc. (Olympus);
Horiba Jobin Yvon
PTI, Inc.

This course is for researchers from Industry and Academic Institutions who want to use fluorescence techniques in their work, and for those who want to refresh and update their knowledge of fluorescence.



Center for Commercialization
of Fluorescence Technologies

FEES:

participants from universities	\$950
participants from private companies	\$1900
students	\$500

For more information - please contact the Course Coordinator, Dr. Irina Akopova, at phone (817)-735-2128, or e-mail iakopova@hsc.unt.edu, and visit our website at <http://www.hsc.unt.edu/ccft>

About CCFT

Center for Commercialization of Fluorescence Technologies is a newly created center at the University of North Texas Health Science Center. UNTHSC is located in the Cultural District of Fort Worth. CCFT is sponsored by Emerging Technologies Fund, established by the Governor of Texas, Rick Perry.



About the Lecturers and Instructors

Dr. Julian Borejdo is a Professor in the Department of Molecular Biology and Immunology in UNTHSC. His research interests are in cellular and molecular fluorescence and in muscle science.

Dr. Thomas P. Burghardt is a Professor in the Department of Biochemistry at the Mayo Foundation in Rochester, MN. His research interests are muscular contraction and novel imaging techniques.

Dr. Nils Calander is a Visiting Professor in UNTHSC. His research interests are theoretical aspects of fluorescence and plasmonics.

Dr. Sabato D'Auria is a Senior Scientist at the Institute of Protein Biochemistry, Italian National Research Council, Naples, Italy. His research interest is in protein-based sensing.

Dr. Elliot L. Elson is a Professor in the Department of Biochemistry & Molecular Biophysics at Washington University at St. Louis, MO. His research interests are correlation spectroscopy, cellular mechanics and molecular and cell locomotion.

Dr. Enrico Gratton is a Professor in the Department of Biomedical Engineering in University of California, Irvine, CA, and Principal Investigator of the Laboratory for Fluorescence Dynamics. His research interests are in all aspects of fluorescence, fluorescence instruments, molecular and macromolecular dynamics.

Dr. Ignacy Gryczynski is a Professor and Director of Microscopy Core Facility in the Department of Cell Biology and Genetics in UNTHSC. His research interest is in metal enhanced and nonlinear fluorescence.

Dr. Zygmunt (Karol) Gryczynski is a Professor in the Department of Molecular Biology and Immunology in UNTHSC. His research interest is in fluorescence and nanophotonics.

Dr. David M. Jameson is a Professor in the Department of Cell and Molecular Biology in John A. Burns School of Medicine, Honolulu, HI. His research interest is in cellular and molecular fluorescence.

Dr. Gabor Laczko is a Visiting Associate Professor in UNTHSC. His research interest is in instrumentation for time-resolved fluorescence.

Dr. Thomas M. Laue is a Professor of Biochemistry and Molecular Biology and Director of Biomolecular Interaction Technologies Center (BITC) and Director of the Center to Advance Molecular Interaction Science (CAMIS) in the University of New Hampshire, Durham, NH. He helped CAMIS develop fluorescence detected sedimentation to characterize macromolecules. His research interests are in physical methods for determining properties of macromolecules.

Dr. Evgenia G. Matveeva is a Research Assistant Professor in the Department of Molecular Biology and Immunology in UNTHSC. Her research interests are in immunochemistry and metal enhanced fluorescence.

Dr. Steffen B. Petersen is a Professor of Biostructure and Protein Engineering and Head of the Nanobiotechnology Group in the Departments of Physics and Nanotechnology, University of Aalborg, Denmark. His research interests are in nanotechnology and image processing.