



Introduction to Optofluidics

1 - 5 June 2009

Miramare, Trieste, Italy

Optofluidics is an emergent research field that combines optics, fluidics and micro/nano technologies. Advances in these areas in the last ten years have led to very interesting application-driven research and technology development. This workshop will introduce the state-of-the-art of optofluidics to scientists and engineers interested in working in this area and who have background in relevant fields. This will also generate synergies between scientists of different countries to actively collaborate in research and development in this area.

Since this is a relatively new area of research, the topics covered will be based on the research activities of the lecturers in this field. General areas are:

- Fundamentals of optofluidics
- Fluidic waveguides
- Optofluidic micro-particle manipulation
- Optofluidic detectors
- Non-linear optics - microfluidic combinations
- Fabrication technologies for optofluidics
- Research topics in optofluidics
- Participant presentations

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the activity. As it will be conducted in English, participants should have an adequate working knowledge of this language. Although the main purpose of the Centre is to help researchers from developing countries, through a program of training activities within a framework of international cooperation, students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants are borne by their home institutions. Some ICTP funds are available for a limited number of applicants who are nationals of, and working in, developing countries. Such financial support is available only to those attending the entire School. As scarcity of funds allows travel to be granted only in a few exceptional cases, every effort should be made by candidates to secure support for their fare from their home country. There is no registration fee to attend this activity.

Application deadline: 30 January 2009

The application form can be accessed at the activity website <http://agenda.ictp.it/smr.php?2037>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application. Kindly send any file attachments in PDF format.

Secretariat: SMR.2037 - Introduction to Optofluidics
c/o Ms. N. Ivanisovich
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, I-34014 Trieste, Italy

Telephone: +39-040-2240383 E-mail smr2037@ictp.it Telefax: +39-040-224163

<http://www.ictp.it/>

DIRECTORS

Dan Cojoc
CNR-INFM, Nat Lab TASC, Trieste, Italy

Joe Niemela
ICTP, Trieste, Italy

Surya Raghu
Advanced Fluidics, Maryland, USA

LECTURERS

Dan Cojoc
CNR-INFM, Nat Lab TASC, Trieste, Italy

Jean Pierre Delville
University of Bordeaux, CNRS Talence, France

Roberto Di Leonardo
University "La Sapienza", Rome, Italy

Jean Marc Fournier
EPFL Lausanne, Switzerland

Pal Ormos
Hungarian Academy of Science, Szeged, Hungary

Miles Padgett
University of Glasgow, UK

Massimo Tormen
CNR-INFM, Nat Lab TASC, Trieste, Italy

Changhuei Yang
California Institute of Technology, USA

DEADLINE

30 January 2009