

WORKSHOP ON PLASMA PHYSICS

"Capacity Building in Plasma Applications and Diagnostic Techniques"

10 - 15 November 2003

Miramare, Trieste, Italy

Purpose and nature

The Workshop will build upon the topical ICTP/IAEA "Workshop on Diagnostic Techniques and Industrial Application of Plasmas" held in March 2002. Its goal is to provide a unique opportunity for young researchers from developing countries to participate in challenging plasma physics experiments and device building. Subject areas to be discussed during the workshop are Magnetized Fusion Plasmas, Dense Plasma Focus, Industrial, and Laser Produced Plasmas. In addition, the Workshop will strive to sustain international collaboration in plasma physics and technology through specific goal oriented activities.

Main Objectives:

The two primary objectives of the Workshop are, firstly, the review and discussion of fundamental issues in the practice of plasma physics and technology, as well as the provision of guidelines for successful programme building in developing countries. Specifically, the Workshop will review and discuss basic diagnostics, analysis tools, and simulation techniques. Secondly it will formulate focused research programmes by developing country laboratories with active participation from peer groups in similar areas.

Possible topics for discussion include:

- 1) **Industrial, Environment, and Engineering Applications**
- 2) **Plasma in Life Sciences**
- 3) **Advanced Diagnostics, Monitoring, Control, and Simulation**
- 4) **Physics of Dense Magnetized Plasmas**
- 5) **Laser Produced Plasmas and Material Processing**

Programme

The format of the workshop will consist of plenary lectures, oral presentations, reviews of work from individual groups, and working group discussions on capacity building in plasma physics. The tone of the Workshop is informal and participation limited, to promote discussion and exchange of ideas and experiences.

Participation

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the Workshop. 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 research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee.

The **Application Form** is obtainable from the ICTP WWW server: <http://agenda.ictp.trieste.it/agenda/current/fullAgenda.php?ida=a0288> (which will be constantly up-dated) or from the activity Secretariat. It should be completed and returned before **1 May 2003** to:

Workshop on Plasma Physics
(smr1523)

the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, 34014 Trieste, Italy.

or

smr1523@ictp.trieste.it (please save and send file attachments in RTF format)

Telephone: +39-040-2240544 Telefax: +39-040-2240585

E-mail: smr1523@ictp.trieste.it

ICTP Home Page: <http://www.ictp.trieste.it/>

**Co-Organized by
the Abdus Salam
ICTP
and
IAEA**

Organizers

A. Wootton

P.I. John

(IAEA, Vienna, Austria)

R. Amrollahi

(K.N. Toosi University of
Technology, Tehran, Iran)

Local Organizer

B. Stewart

(ICTP, Trieste, Italy)

DEADLINE

for requesting participation

1 May 2003

