



IAEA

International Atomic Energy Agency

Atoms for Peace

Announcement

22nd IAEA Technical Meeting (TM) on Research Using Small Fusion Devices

12-14 October 2015

Prague, Czech Republic

INTRODUCTION

The International Atomic Energy Agency (IAEA) will hold the 22nd IAEA Technical Meeting on Research Using Small Fusion Devices from 12 to 14 October 2015 in Prague, Czech Republic. Previous meetings in the series were held in Budapest (1985), Nagoya (1986), Nice (1988), Washington DC (1990), Hefei (1991), Wuerzburg (1992), Campinas (1993), Madrid (1994), Ahmedabad (1995), Prague (1996), Cairo (1997), Tokyo (1998), Chengdu (1999), Sao Paulo (2002), Vienna (2003), Mexico City (2005), Lisbon (2007), Alushta (2008), Kurchatov (2009), Vienna (2011) and San José (2014).

BACKGROUND

The Technical Meeting on Research Using Small Fusion Devices is an ideal forum for laboratory size fusion experiments to report about their latest achievements utilizing medium size and small scale tokamaks, compact tori, dense plasma focus, reversed field pinches, helical devices, linear machines, and other small plasma devices. About 40 – 60 international experts will discuss new challenges on topics concerning plasma physics such as transport, turbulence, confinement and stability and on technology developments such as new diagnostic concepts and prototypes, materials testing as well as characterization and improvement, remote participation experiments and design of control and data acquisition systems and others. Special emphasis is put collaboration between the laboratories on new and emerging technologies.

The Technical Meeting is aiming to stimulate new synergies which can contribute to better streamline the research outputs to the mainstream fusion research. Of importance are the contributions of younger scientists, especially from countries with emerging economies. Depending on the availability grants will be provided to young researchers to support their contribution to the Technical Meeting.

Main emphasis will be put on the specific needs of the magnetic confinement and the dense plasma focus community, where some topics will be discussed in separate sessions in order to accommodate in-depth discussions for the specialists.

OBJECTIVES

The objective of the meeting is to provide a forum for discussion of approaches to fusion research based on small and medium scale devices, such as small tokamaks, compact tori, dense plasma focus, reversed field pinches, helical devices, linear/discharge machines, etc. The meeting will also cover other devices such as non-magnetic confinement devices, devices using beams or lasers and new trends or innovation concepts for fusion research. The meeting will provide an opportunity for scientists working in different fusion topics and different devices to exchange and discuss results of their research, compare methodologies and promote possible collaborations.

TOPICS

The meeting will cover the following topics:

- A. Magnetic Confinement**
 - A-OV Overview**
 - A-SP Specialized Session Magnetic Confinement**
- B. Dense Magnetised Plasmas**
 - B-OV Overview**
 - B-SP Specialized Session DPF**
- C. Innovative Fusion Technology and Applications**
- D. Fusion Materials Research**
- E. Diagnostic Systems and Components**
- F. Control and Data Acquisition Systems and Remote Participation Tools**

MEETING ORGANIZATION AND FORMAT

The meeting will consist of plenary, invited and contributed oral presentations, poster sessions. The time allotment will be 45 minutes plus 5 minutes discussion for plenary talks, 35 minutes plus 5 minutes discussion for invited talks and 15 minutes plus 5 minutes discussion for contributed oral talks. Poster sessions shall be used for longer discussions. An electronic projector connected to a computer capable of reading CDs and memory sticks will be available (Power Point or PDF recommended). It is expected that the meeting will start at 9:00 on 12 October 2015 and end by 17:00 on 14 October 2015.

Language

The working language of the meeting is English; no interpretation will be provided.

Participation

About 40 experts from IAEA Member States and International Organizations are expected to attend the meeting. Participants should be actively involved in the topics of the meeting. Participants will be accepted only if their duly completed Participation Form (Form A) is transmitted to the IAEA through their appropriate governmental authority by **1 June 2015**.

MEETING VENUE AND TRANSPORTATION

The meeting will be held in the Institute of Plasma Physics, Academy of Sciences of the Czech Republic, Za Slovankou 1782/3, 182 00 Prague 8, Czech Republic (<http://www.ipp.cas.cz>). Information on the meeting venue, accommodation and transportation is available on the meeting website: <http://www.ipp.cas.cz/Tokamak/conf/RUSFD>. It is to be noted that transportation of meeting participants from Prague airport to their respective hotels will not be arranged by the local organizing committee.

ABSTRACT

Participants wishing to make a contribution at the meeting are requested to submit a one-page electronic abstract. Abstracts should be submitted to the email address Physics@iaea.org by **1 June 2015**. Abstracts should be prepared according to the following instructions:

- 1) Page size: A4 (297mm by 210 mm) – vertical orientation
- 2) Margins 25mm all around
- 3) Layout:
 - Title: single-spaced, 14-point size, Times New Roman Font (TNR), **bold**
 - Authors: single-spaced, 12-point size, TNR Font
 - Affiliation: single-spaced, 12-point size, TNR Font, *italic*
 - Text: 1.5 spaced, 12-point size, TNR Font
 - Length: one page

Abstracts can be text only or contain figures and graphics. The abstracts must contain the authors' names, affiliation and email address. Acceptable file formats are Microsoft Word (preferred) or PDF. The filename should be in the following format: "lastname.i.n.i.t.i.a.l.s.-topic filetype".

Authors must make sure that the files do not include copyrighted fonts or any other impediments for reproduction. The abstracts will be reviewed and selected by the International Programme Advisory Committee. Authors will be informed of the acceptance of their contributions via email by **1 July 2015**. A Book of Abstracts will be compiled for distribution during the meeting.

PAPERS

A summary report of the meeting will be prepared by the Chair and the International Programme Advisory Committee for submission to the "Nuclear Fusion" journal.

EXPENDITURES AND FINANCIAL SUPPORT

The costs for the organization of the meeting are borne by the IAEA. No registration fee will be charged to participants. As a general rule, the IAEA does not pay travel and accommodation expenses for meeting participants. However, limited funds are available to help meet the cost of attendance of a few selected specialists, primarily those from developing countries with low economic resources. Generally, not more than one grant will be awarded to any one country. The grants awarded will be in the form of lump sums usually covering part of the cost of attendance. Governments wishing to apply for a grant on behalf of one of their specialists should address specific requests to the Scientific Secretary responsible for this meeting to this effect. Governments should ensure that applications for grants are:

- 1) received by the IAEA by 1 June 2015,
- 2) accompanied by a duly completed and signed Grant Form C including the abstract of the paper to be presented,
- 3) should include an estimate from an official travel agency of the travel cost.

Applications that do not comply with the conditions mentioned above will not be considered. Awards will be announced by **1 July 2015**.

VISAS

Participants who require a visa to enter the Czech Republic should submit the necessary application to the nearest diplomatic or consular representative of the Czech Republic as soon as possible. An official letter of invitation will be issued to all participants. This letter will be needed for the visa application. In case of special requirements, please contact Mr Jan Stockel at stockel@ipp.cas.cz.

DEADLINES

1 June 2015	Submission of abstracts according to the instructions above for paper selection.
1 June 2015	Submission of the Participation Form through the appropriate governmental authority.
1 July 2015	Grant awards
1 July 2015	Participants will be informed about the acceptance of their papers.
12 October 2015	Meeting begins – please bring an electronic copy (word or pdf file) of your manuscript paper to be collected by the IAEA Scientific Secretary.

INTERNATIONAL PROGRAMME ADVISORY COMMITTEE

The International Programme Advisory Committee (IPAC) is composed by the following members:

Name	Country
G. Van Oost	Belgium
R. Galvao	Brazil
L. Soto	Chile
J. Stöckel (Chair)	Czech Republic
A. Sagara	Japan
J.J. E. Herrera	Mexico
V. Gribkov	Russia
R. Miklaszewski	Poland
I. Garkusha	Ukraine
M. Gryaznevich	UK
G. Navratil	USA
H. Hernandez	Portugal

LOCAL ORGANIZATION

Local Organizing Committee

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Michael Komm
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Ivana Svadlenkova

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