



Atoms for Peace

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **Technical Meeting on Novel Multidisciplinary Applications with Unstable Ion Beams and Complementary Techniques** to be held at the IAEA's Headquarters in Vienna, Austria, from **10 December 2018 to 14 December 2018**.

The purpose of the event is to document the recent advances in unstable beam production and acceleration technologies, to survey the current multidisciplinary applications of unstable ion beams, to map the current interest of the scientific community in this field, and to conclude on the need for a subsequent technical meeting and/or a coordinated research project.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are invited to designate one or more participants for this event. Member States are strongly encouraged to identify suitable women participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Such assistance may be offered upon specific request to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event. The application for financial support should be made at the time of designating the participant.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in events. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

Designations should be submitted through the established official channels not later than **29 October 2018** for the attention of the Scientific Secretaries of the event, Mr Sotirios Charisopoulos, Division of Physical and Chemical Sciences, Department of Nuclear Sciences and Applications, IAEA, Vienna International Centre, PO Box 100, 1400 Vienna, Austria (Tel.: +43 1 2600 21637/28224; Fax: +43 1 26007; Email: S.Charisopoulos@iaea.org) and Mr Natko Skukan, Division of Physical and Chemical Sciences, Department of Nuclear Sciences and Applications, IAEA, Vienna International Centre, PO Box 100, 1400 Vienna, Austria (Tel.: +43 1 2600 21637/28624; Fax: +43 1 26007; Email: N.Skukan@iaea.org). Designations should also be copied to the Administrative Secretary for the event, Mr Yasser Al Ghraoui (Email: Y.Al-Ghraoui@iaea.org). The full names and complete contact details (including postal address, telephone/fax numbers, and email address) of designated participants should be provided.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to assure the IAEA's Member States of its highest consideration.



2018-10-02

Enclosures: Information Sheet
Participation Form (Form A)
Form for Submission of a Paper (Form B)
Grant Application Form (Form C)



IAEA

International Atomic Energy Agency

Atoms for Peace

Technical Meeting on Novel Multidisciplinary Applications with Unstable Ion Beams and Complementary Techniques

10–14 December 2018

IAEA Headquarters, Vienna, Austria

Information Sheet

A. INTRODUCTION

During the last two decades, nuclear physics research has triggered unique developments in accelerator technologies and associated nuclear instrumentation. Among the most challenging projects is the production and subsequent acceleration of unstable (radioactive) beams with intensities allowing for not only leading fundamental research, but also for a variety of applications in domains of large societal impact and increased industrial interest, such as human health, environmental and space applications, energy, and the development of new materials.

To date, many of these applications are receiving a continuously increasing interest due to their unique analytical potential and irreplaceability in certain scientific and technological domains. In this context, various industrial applications may emerge from research programmes based on the production and use of radioactive ion beams (RIBs).

Under these conditions, applications of RIBs and of new radioisotopes resulting from the recent accelerator technologies may have a positive impact on the socio-economic development of IAEA Member States, and therefore justifies being explored in a coordinated manner.

B. OBJECTIVES

The purposes of the Technical Meeting are: to assess and facilitate the establishment of a worldwide community active in RIB-based applications; to gather the community's interests and priorities and to explore synergies and shared goals; to assess the most relevant tools and methods used for RIB production and RIB applications; to enhance interaction among experts in the field; to document the need for future developments in instrumentation and methods for RIB-based applications and to prepare an IAEA technical publication based on the contributed papers.

C. TOPICS

The meeting will focus on, but will not be limited to, the following technical topics:

- Harvesting of isotopes from ion beam dumps and production targets
- Local radioactive probes for condensed matter, biophysics and chemistry
- Direct radioisotope production for medicine from RIB facilities
- Industry-related RIB-based applications
- Use of radioisotopes for condensed matter physics research and materials analysis
- Use of in-flight RIBs for cross section measurements
- Instrumentation for RIB production, control and handling.

D. MEETING FORMAT

The meeting will feature invited and contributed papers presented in sessions devoted to special topics. Invited presentations, as keynotes for the sessions, will be 35 minutes with an additional five minutes for discussion; contributed presentations will be 20 minutes including five minutes for discussion. An electronic projector connected to a computer capable of reading CDs and memory sticks will be available for the presentations (PowerPoint recommended). It is expected that the meeting will start at 09:30 on 10 December 2018 and end by 12:30 on 14 December 2018. A summary session will provide the opportunity to review the progress reported at the meeting and recommend directions for future research.

Language

The working language of the meeting will be English. No interpretation will be provided.

Participation

About 30 experts from IAEA Member States 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 returned to the IAEA through their appropriate governmental authority by **29 October 2018**.

E. ABSTRACT

All participants are encouraged to make an oral contribution at the meeting and therefore are requested to submit a one-page electronic abstract. Abstracts should be submitted directly to the Scientific Secretaries of the Technical Meeting via the email addresses S.Charisopoulos@iaea.org and N.Skukan@iaea.org by **29 October 2018**.

Abstracts should be prepared according to the following requirements:

- One side of A4 (297 mm by 210 mm), portrait orientation
- 25 mm margins all around
- Times New Roman font

Please ensure your abstract layout is as follows:

1. Title: single line spacing, 14 point **bold** font
2. Authors: single line spacing, 12 point font

3. Affiliation: single line spacing, 12 point *italic* font
4. Text: 1.5 line spacing, 12 point font

The abstracts must contain the authors' names, affiliations, and email addresses.

Abstracts should be text only, but they may also include figures and graphics if needed. Acceptable file formats are Microsoft Word (preferred) or PDF.

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 (IPAC). Authors will be informed of the acceptance of their contributions via email by **9 November 2018**. A Book of Abstracts will be compiled for distribution during the meeting.

F. PAPERS

Manuscripts should be prepared for inclusion in the meeting proceedings published by the IAEA, which will be available on the web and will also include the presentations. If agreed, a summary report of the meeting will be prepared by the IPAC, coordinated by its chair, for submission to a peer-reviewed international nuclear physics journal.

G. 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. Generally, the IAEA does not pay travel and accommodation expenses for participants of the meeting, but 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. In addition, grants will be awarded under the condition that the participants receiving attendance support will submit and present a paper during the Technical Meeting. 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 at the IAEA. Governments should ensure that applications for grants are received by the IAEA by **29 October 2018**, and are accompanied by a duly completed and signed Grant Application Form (Form C) including the abstract of the paper to be presented. Applications 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 **9 November 2018**.

H. VISAS

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as soon as possible. A letter of invitation, if needed, should be requested from Mr Yasser Al-Ghraoui (Y.Al-Ghraoui@iaea.org).

I. DEADLINES

29 October 2018	Submission of abstracts according to the instructions given above for paper selection
29 October 2018	Submission of Participation Form (Form A), Form for Submission of a Paper (Form B), and Grant Application Form (Form C) from Member States
9 November 2018	IAEA acceptance of contribution informed by email, followed by formal invitation letters and grant awards when applicable
10 December 2018	Technical Meeting begins

J. INTERNATIONAL PROGRAMME ADVISORY COMMITTEE

The IPAC is composed of the following members:

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K. ORGANIZATION

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