



# **Technical Meeting on Emerging Applications of Plasma Science and Technology**

**IAEA Headquarters, Vienna, Austria**

**19–22 September 2023**

**Ref. No.: EVT2103316**

## **Information Sheet**

### **Introduction**

Plasma science has the potential to produce game changing technologies with applications in medicine, industry, water purification, food and agriculture, offering unparalleled opportunities to address many global challenges, such as climate change and zoonotic diseases. For example, plasma-based technology can be used for bacteria and virus de-activation, including COVID-19 and all viral and bacterial pathogens, or to purify water and make a major impact on our ability to address climate change and sustainability. These emerging applications can help strengthen Member States' ability to address these critical societal problems.

The IAEA looks forward to support existing and novel applications of plasmas and plasma related technology, facilitate information exchange and help strengthen Member States' research programmes in this field.

### **Objectives**

The purpose of the event is to gather information and build a common understanding of emerging applications of plasma science and technology, fostering practical ideas and proposals for joint initiatives

aimed at fostering longer-term collaboration through IAEA mechanisms (such as coordinated research projects<sup>1</sup>, networks<sup>2</sup> and technical cooperation projects<sup>3</sup>) for addressing global challenges.

## **Target Audience**

The event will focus on applications of plasma science and technology, which is a multidisciplinary area covering many branches including plasma physics, chemistry, materials science, biology, engineering and industrial applications. Accordingly, the target audience for this event comprises, but is not limited to:

- Research scientists engaged in plasma-based research;
- Plasma technologists;
- Entrepreneurs or stakeholders involved in applications of plasma-based technology;
- Policymakers.

## **Working Language(s)**

The working language of the event will be English. All communication and papers must be sent to the IAEA in English. No simultaneous interpretation will be provided.

## **Structure and Topics**

The programme will consist of sessions dedicated to invited oral talks and discussions. A Programme Committee made up of a representative international membership will be responsible for selecting the invited oral presentations and arranging the technical and discussion sessions, as well as for the overall scientific content of the event. The programme will cover the following applications and areas of plasma science and technology:

- Agriculture
- Atmospheric Pressure Plasma
- Catalysis
- Industrial Applications
- Medicine
- Municipal Solid Waste Treatment
- Space
- Water Treatment

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<sup>1</sup> See <https://www.iaea.org/services/coordinated-research-activities>

<sup>2</sup> See <https://www.iaea.org/services/networks>

<sup>3</sup> See <https://www.iaea.org/services/technical-cooperation-programme>

## Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **15 June 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by the above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

## Abstracts and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed on the IAEA-INDICO website.

Participants who wish to give presentations are requested to submit an abstract of not more than 500 words through IAEA-INDICO by **15 June 2023**. Abstracts may contain figures and graphics. Instructions on how to upload the abstracts will be available on the IAEA-INDICO website.

Submissions must contain the author's name, email address, country, organization and topic. Authors are encouraged to flag their proposals as an oral or poster presentation. However, the Programme Committee will evaluate all submissions and decide on the final presentation format.

Authors will be notified of the acceptance of their proposed presentations by **31 July 2023**.

## Expenditures and Grants

No registration fee is charged to 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. Upon specific request, such assistance may be offered 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 using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **15 June 2023**.

## Venue

The event will be held at the Vienna International Centre (VIC), where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:

[www.iaea.org/events](http://www.iaea.org/events).

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

## Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

## Key Dates

<b>15 June 2023</b>	Deadline for submission of abstracts through IAEA-INDICO at <a href="https://conferences.iaea.org/event/336/">https://conferences.iaea.org/event/336/</a>
<b>15 June 2023</b>	Deadline for submission of Participation Form (Form A) and Grant Application Form (Form C) (if applicable) through the official channels
<b>31 July 2023</b>	Notification of acceptance of abstracts and of assigned awards

## Programme Committee

Rajdeep Singh Rawat (Chair)	Singapore
Kateryna Bazaka	Australia
Patrick J. Cullen	Australia
Lanbo Di	China
Xinpei Lu	China
Tao Shao	China
Subrato Mukherjee	India
Kenji Ishikawa	Japan
Masaharu Shiratani	Japan
Hae June Lee	Republic of Korea
Miran Mozetic	Slovenia
Xin Tu	United Kingdom
Michael Keidar	United States of America
Mark J. Kushner	United States of America
R. Mohan Sankaran	United States of America

## IAEA Contacts

### Scientific Secretary:

#### Mr Matteo Barbarino

Division of Physical and Chemical Sciences  
Department of Nuclear Sciences and Applications  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA

Tel.: +43 1 2600 26386

Fax: +43 1 26007

Email: [M.Barbarino@iaea.org](mailto:M.Barbarino@iaea.org)

## **Administrative Secretary:**

### **Mr Ruben Gomez Zaragoza**

Division of Physical and Chemical Sciences  
Department of Nuclear Sciences and Applications  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA

Tel.: +43 1 2600 26393

Fax: +43 1 26007

Email: [R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org)

Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

## **Event Web Page**

Participants are encouraged to visit these web pages regularly to check for new or updated information regarding the meeting:

IAEA-INDICO: <https://conferences.iaea.org/event/336/>

# Participation Form

## Technical Meeting on Emerging Applications of Plasma Science and Technology

IAEA Headquarters Vienna, Austria

19 to 22 September 2023

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary ([M.Barbarino@iaea.org](mailto:M.Barbarino@iaea.org)) and to the Administrative Secretary ([R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org)).

Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

### Deadline for receipt by IAEA through official channels: 15 June 2023

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable: Do you intend to submit a paper?                      Yes <input type="checkbox"/> No <input type="checkbox"/> Would you prefer to present your paper as a poster?      Yes <input type="checkbox"/> No <input type="checkbox"/> Title: I plan to attend virtually:                                      Yes <input type="checkbox"/> No <input type="checkbox"/>		

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate.

# Grant Application Form

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To be completed by the applicant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary ([M.Barbarino@iaea.org](mailto:M.Barbarino@iaea.org)) and to the Administrative Secretary ([R.Gomez-Zaragoza@iaea.org](mailto:R.Gomez-Zaragoza@iaea.org)).

**Deadline for receipt by IAEA through official channels: 15 June 2023**

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yy/mm/dd):	Nationality:	
I plan to attend virtually:	Yes <input type="checkbox"/> No <input type="checkbox"/>	

### 1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended	
			from	to

### 2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked	
			from	to

### 3. Description of work performed over the last three years:



**4. Institute's/Member State's programme in field of event:**

**Date:**                      **Signature of applicant:** \_\_\_\_\_

**Date:**                      **Name, signature and stamp of Ministry of Foreign Affairs, Permanent Mission  
to the IAEA or National Atomic Energy Authority** \_\_\_\_\_