



# **Training Workshop on Advances in Boron Neutron Capture Therapy**

**Hosted by the**

**Government of Japan**

**through**

Okayama University and Osaka Medical and Pharmaceutical University

**Okayama and Osaka, Japan**

**3 - 7 July 2023**

**Ref. No.: EVT2205719**

## **Information Sheet**

### **Introduction**

In recent years, boron neutron capture therapy (BNCT) has made significant progress in many fields, and its practice had undergone significant changes, moving from research reactors to accelerator based neutron sources, often hosted directly in clinical settings. For example, in Japan, accelerator-based BNCT practice has been approved and is now offered as a routine clinical treatment under national health insurance for recurrent, advanced, non-resectable head and neck cancer at two centres. Currently, accelerators of various designs are being built around the world to perform BNCT. Workshop participants will have an opportunity to visit the Kansai accelerator based BNCT facility and perform some practical exercises using available infrastructure.

### **Objectives**

The purpose of the event is to share the latest information on advances in accelerator-based boron neutron capture therapy (BNCT), including considerations for the establishment of in-hospital BNCT facilities.

### **Target Audience**

The target audience includes people interested in planning, establishing, and operating an accelerator based BNCT facility; scientists performing basic and medical research related to BNCT; designers of accelerators and beam delivery systems for BNCT, and regulators. Candidates are required a motivation statement

describing their research interests, their experience in BNCT, and why they would benefit from this workshop. Preference will be given to qualified young candidates from the Asia-Pacific region. Female candidates are strongly encouraged to apply.

## Working Language(s)

English

## Topics

The training will cover the following topics:

- Neutron sources, beam parameters, and beam design
- BNCT facility planning and design
- Organization, operation, and management of a BNCT treatment facility
- Boron pharmaceuticals and boron concentration measurement
- Prescribing and treatment planning for BNCT
- Safety considerations and regulatory aspects

## 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 **30 April 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. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

## 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 **30 April 2023**.

## **Visas**

Participants who require a visa to enter Japan should submit the necessary application as soon as possible to the nearest diplomatic or consular representative of Japan.

## **Organization**

### **Scientific Secretary**

#### **Mr Ian Peter Swainson**

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

Tel.: +43 1 2600 24215

Fax: +43 1 26007

Email: [I.Swainson@iaea.org](mailto:I.Swainson@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  
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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.



# Participation Form

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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, Mr Ian Peter Swainson, Division of Physical and Chemical Sciences, Department of Nuclear Sciences and Applications (Email: [I.Swainson@iaea.org](mailto:I.Swainson@iaea.org)) and to the Administrative Secretary, Mr Ruben Gomez Zaragoza, (Email: [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: 30 April 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	No
Would you prefer to present your paper as a poster?	Yes	No
Title:		

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. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.



# Grant Application Form

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**Deadline for receipt by IAEA through official channels: 30 April 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** \_\_\_\_\_