



Atoms for Peace and Development

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

Organismo Internacional de Energía Atómica

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In reply please refer to: EVT2105840

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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 to Identify Opportunities and Challenges in the Back End of the Fuel Cycle for Evolutionary Accident Tolerant Fuels** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria from **14 to 17 June 2022**.

In addition, the event will allow for virtual participation via Cisco Webex.

The purpose of the event is to share technical information on research and operational experience (such as post-irradiation examination, reprocessing and recycling) related to spent evolutionary accident tolerant fuels, in order to identify opportunities and challenges in their future management and deployment.

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 to represent the Government at 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. 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 at the time of designating the participant using the attached Grant Application Form (Form C).

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 IAEA 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 to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **15 April 2022** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Ms Laura McManniman, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy (Email: L.Mcmanniman@iaea.org), and to the Administrative Secretary, Mr Andi Keco (Email: A.Keco@iaea.org). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once official designations have been received.

Should Governments wish, in addition, to appoint one or more observers to assist and advise the designated participants, they are kindly requested to inform the IAEA of the names and contact details of any such observers by the above date. In accordance with the established rules, Governments are expected to bear the cost of attendance of any observers they may send to IAEA events. Compensation is not payable by the IAEA for any damage to or loss of observers' personal property or for illness, injury or death occurring while travelling to or in connection with their attendance at IAEA events.

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a "Disabling Code").

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



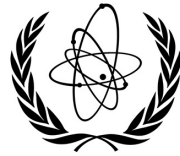
2022-03-17

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 and Development

Technical Meeting to Identify Opportunities and Challenges in the Back End of the Fuel Cycle for Evolutionary Accident Tolerant Fuels

IAEA Headquarters, Vienna, Austria
and virtual participation via Cisco WebEx

14–17 June 2022

Ref. No.: EVT2105840

Information Sheet

Introduction

There is an ongoing interest from Member States in the development and deployment of accident tolerant fuels (ATFs, that are included in the generic group of Advanced Technology Fuels). Such fuels are seen to offer both safety and economic benefits for nuclear power reactors with many designs under consideration. Those technologies that are mature enough to commence fuel qualification and achieve near term deployment (i.e., within the coming decade) in the existing fleet of light water reactors (LWRs) and in the LWR-based small modular reactor (SMR) designs are termed ‘evolutionary accident tolerant fuels’ (eATFs).

There are numerous designs and concepts that could be termed as eATFs, based on features such as enhanced cladding, modified uranium oxide fuel (including dopants), and increased enrichment.

A great deal of research and development has been undertaken to support the introduction of eATFs into commercial nuclear power reactors; the first eATFs entered service in 2021 as part of a test programme. These tests support the economic and safety cases for reactor core operations and provide preliminary information to anticipate potential impacts on the back end of the fuel cycle when compared to traditional power reactor fuels. This includes during storage, transportation, reprocessing and recycling, and disposal.

The IAEA is organizing a Technical Meeting on 14 to 17 June 2022 to facilitate the exchange of information regarding eATFs to enable experts to collaboratively identify the opportunities and challenges faced in all stages of the back end of the fuel cycle (storage, transportation, reprocessing & recycling, and disposal) by the introduction of eATFs into commercial use.

Objectives

The purpose of the event is to share technical information on research and operational experience (such as storage, reprocessing and recycling, transportation, and disposal) related to spent evolutionary accident tolerant fuels (eATFs), in order to identify opportunities and challenges in their future management and deployment.

Target Audience

The event is intended for participants from nuclear fuel research organizations, nuclear power plants, utilities, regulatory bodies, technical support organizations, universities, nuclear fuel vendors, and other organizations engaged in the design, fabrication, operation and subsequent management of evolutionary accident tolerant fuels. Participants should be actively involved in the subject of the event and have considerable experience of the relevant activities.

Working Language(s)

English.

Expected Outputs

The event will provide the basis for preparing a report compiling technical papers capturing the state of the art, discussions of the event, and recommendations for future activities to support the introduction of evolutionary accident tolerant fuels (eATFs) from a spent fuel management perspective.

Topics

Papers on the following topics are welcomed:

- National and international programmes for spent eATF management;
- Fuel cycle strategies, their assessment tools, and their inventory forecasts;

- Impacts on spent fuel storage conditions and systems (wet and dry);
- Impacts on reprocessing and potential recycling routes;
- Impacts on disposal.

Those ATFs that are in development for deployment in Generation-IV reactor designs are termed “revolutionary accident tolerant fuels” (rATFs) and are outside of the scope of this Technical Meeting. Further activities are planned in 2022 in relation to these fuels.

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 April 2022**. 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.

Papers and Presentations

Participants are expected to present papers falling within the scope of topics listed above. All papers must present original work and should not have been published elsewhere.

Participants who wish to give presentations are requested to submit a full paper in a two stage process. An abstract should be submitted before **15 April 2022** via the web-based file submission system IAEA-INDICO. The abstract should be **no more than three hundred words**. Once accepted, a full paper is to be submitted via IAEA-INDICO not later than **20 May 2022**.

Papers can only be considered if the **Participation Form (Form A)** together with the **Form for Submission of a Paper (Form B)** have been submitted by the author to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the Scientific Secretary of the event, not later than **15 April 2022**.

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 April 2022**.

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.

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.

Additional Information

The agenda and link to access the online component will be sent to the designated participants before the event.

IAEA Contacts

Scientific Secretary:

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AUSTRIA

Tel.: +43 1 2600 22470

Fax: +43 1 26007

Email: L.Mcmaniman@iaea.org

Administrative Secretary:

Mr Andi Keco

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Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
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AUSTRIA

Tel.: +43 1 2600 25809

Fax: +43 1 26007

Email: A.Keco@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

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/EVT2105840

Participation Form

Technical Meeting to Identify Opportunities and Challenges in the Back End of the Fuel Cycle for Evolutionary Accident Tolerant Fuels

IAEA Headquarters Vienna, Austria and virtual participation via Cisco WebEx

14–17 June 2022

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 or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary L.Mcmanniman@iaea.org and to the Administrative Secretary A.Keco@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 April 2022

| | | |
|---|--|-----------------------------|
| 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.

Form for Submission of a Paper

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| | | |
|--|--|--------------|
| Title of the paper: | | |
| If applicable: Abstract ID in IAEA-INDICO: | | |
| Family name(s) and first name(s) of all author(s) (same as in passport(s): | Scientific establishment(s) in which the work has been carried out | City/Country |
| 1. | | |
| 2. | | |
| 3. | | |
| Family name(s) and first name(s) of author presenting the paper (same as in passport): | Mr/Ms: | |
| Mailing address: | | |
| Tel. (Fax): | | |

Email:

I plan to attend virtually:

Yes No

I hereby agree to assign to the International Atomic Energy Agency (IAEA):

- the copyright; or
- the non-exclusive, worldwide, free-of-charge licence (this option is only for those authors whose parent institution does not allow them to transfer the copyright for work carried out in that institution) granting the IAEA world rights for the use of the aforementioned material in this and any future editions of the publication, in all languages, and in all formats available now, or to be developed in the future (digital formats, hard copy etc.).

Please note: If granting the licence mentioned above, please supply any copyright acknowledgement text required.

Furthermore, I herewith declare:

- that the material submitted to the IAEA is original, except for such excerpts from copyrighted works as may be included with the permission of the copyright holders thereof, has been written by the stated authors, has not been published before, and is not under consideration for publication by another entity;
- that any permissions and rights to publish required for third-party content, including but not limited to figures and tables, have been obtained, that all published material is correctly referenced; and
- that the material submitted to the IAEA does not contain any libellous or other unlawful statements and does not contain any materials that violate any personal or proprietary rights of any person or entity.

Date:

Signature of main author:

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 or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary L.Mcmaniman@iaea.org and to the Administrative Secretary A.Keco@iaea.org.

Deadline for receipt by IAEA through official channels: 15 April 2022

| | | |
|---------------------------------------|--|--------|
| 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: _____

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