

Atoms for Peace and Development

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In reply please refer to: EVT2000098 Dial directly to extension: (+43 1) 2600-22565

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 the Status, Design Features, Technology Challenges and Deployment Models of Microreactors** hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **20 to 23 July 2020**.

The purpose of the event is to provide a forum for information exchange and to disseminate knowledge on the status of the latest technology developments and design features of microreactors, while exploring technology challenges and deployment model options.

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 participants 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 May 2020** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: <u>Official.Mail@iaea.org</u> or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Mr Frederik Reitsma, Division of Nuclear Power, Department of Nuclear Energy (Email: <u>F.Reitsma@iaea.org</u>), and to the Administrative Secretary, Ms Ana Szentirmai (Email: <u>A.Szentirmai@iaea.org</u>). 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 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.



2020-04-07

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



Technical Meeting on the Status, Design Features, Technology Challenges and Deployment Models of Microreactors

IAEA Headquarters Vienna, Austria

20–23 July 2020

Ref. No.: EVT2000098

Information Sheet

Introduction

Advanced small modular reactors, including microreactors, are being developed in several Member States. These reactors, which typically generate up to 10MW(e), must have appropriate safety margins, enhanced transportability to site and be modular in design while also being affordable. For deployment to become a reality, these very small power plants must also have proper security and positive proliferation resistant characteristics. These reactors are typically targeted at remote sites (arctic or island communities, mining operations) to provide backup power, to serve oil platforms or to be applied in maritime shipping.

Compared to small modular reactors (SMRs), which aim to address energy demand by adding incremental capacity with moderate financial commitment for utilities, microreactors are targeted more at niche markets and will typically compete in a market currently served by diesel generators. Consequently, some experts see microreactors as the entry pathway for SMRs, especially since the business case for microreactors may initially be more favourable and because no other off-grid solutions currently exist. This is evidenced by the fact that 5 of the 12 pre-licensing vendor design reviews in Canada are microreactors. Several designs are also included in the 2018 edition of Advances in *Small Modular Reactor Technology Developments*.

Microreactors have several unique characteristics. To a greater degree than other SMRs, microreactors can be more easily fabricated in a factory setting, can be more easily transported to sites and connected to the end user of electricity and heat, and may be self-regulating based on inherent and passive safety

systems, thus being able to achieve a high level of control and safety with minimal operator actions. They are also not limited to a specific type of moderator, coolant, or neutron energy range and exhibit widely different characteristics. For example, coolants may include helium, lead, air, water, liquid metal and heat pipes.

Objectives

The main objective of the event is to conduct a detailed technical discussion on the current status of microreactor developments in Member States. Aspects of specific deployment models will be discussed, including details of user requirements and associated technology solutions. Contributions in the form of papers, presentations and session discussion summaries will result in the preparation of an IAEA Technical Document (TECDOC). This TECDOC is intended to represent an objective summary of reference information for interested organizations, individuals and decision makers from countries involved in microreactor development or deployment.

Target Audience

The event is open to representatives from organizations in Member States, including government organizations (policymakers, analysts, regulators and research and development (R&D) agencies), and industry (vendors, engineering companies, plant operators, technology developers and end users).

Working Language(s)

English.

Topics

This event will feature presentations on microreactor designs, the status of the technology, innovative approaches, new materials, manufacturing techniques, needs for new R&D and the challenges of near term deployment. Presentations on microreactor-specific deployment models will be welcomed, especially those covering aspects such as user requirements, remote operations, innovative power conversion systems and ownership and operator models.

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 May 2020**. 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.

Please note that the IAEA is in a transition phase to manage the entire registration process for all regular programme events electronically through the new InTouch+ (https://intouchplus.iaea.org) facility, which is the improved and expanded successor to the InTouch platform that has been used in recent years for the IAEA's technical cooperation events. Through InTouch+, prospective participants will be able to apply for events and submit all required documents online. National authorities will be able to use InTouch+ to review and approve these applications. Interested parties that would like to use this new facility should write to: InTouchPlus.Contact-Point@iaea.org.

Papers and Presentations

The IAEA encourages participants to prepare full papers and give presentations that will contribute directly to fulfilling the objectives of the event and that cover the following topics:

- Microreactor designs: status of the technology;
- Innovative approaches;
- New innovative construction methods and modular assembling techniques;
- Innovative materials;
- Advanced manufacturing techniques;
- Challenges for deployment;
- Innovative approaches to operation, maintenance, security and safeguards;
- Specific deployment models (including ownership models, takeback policies, replacement units etc.);
- User requirements;
- Other considerations (legal, financial and deployment drivers);
- Climate change, impact on market potential, the importance of microreactors being carbon dioxide free energy source; and
- R&D needs.

Technical papers should be written following the instructions provided in Appendix A and must be submitted electronically in the form of a Microsoft Word document to the Scientific Secretaries of the event, together with Form for Submission of a Paper (Form B) by 15 May 2020.

Authors will be notified of the acceptance of their proposed presentations by **8 June 2020.** Those authors whose papers are accepted will then be requested to prepare and submit their presentations in Microsoft PowerPoint or PDF format by email to the Scientific Secretaries of the event by **15 July 2020**.

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 May 2020**.

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: <u>http://www-pub.iaea.org/iaeaevents/GeneralInfo/Guide/VIC</u>.

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.

IAEA Contacts

Scientific Secretary:

Mr Frederik Reitsma

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Co-Scientific Secretary:

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Division of Nuclear Power Department of Nuclear Energy International Atomic Energy Agency Vienna International Centre PO Box 100 1400 VIENNA AUSTRIA Tel.: +43 1 2600 22865 Fax: +43 1 26007 Email: <u>T.Jevremovic@iaea.org</u>

Administrative Secretary:

Ms Ana Szentirmai

Division of Nuclear Power Department of Nuclear Energy International Atomic Energy Agency Vienna International Centre PO Box 100 1400 VIENNA AUSTRIA Tel.: +43 1 2600 22803/22815 Fax: +43 1 26007 Email: <u>A.Szentirmai@iaea.org</u>

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

Appendix A

IAEA Required Format

Paper length: min 8 pages, max ANY number

Paper format to strictly follow the below instructions

TITLE 14 point bold Times New Roman Name of Authors and Affiliations, 12 point Times New Roman

Default language: Should be set to English (UK). However, please note that IAEA style is to use "...zation" rather than "...ize" rather than "...ise" in the corresponding verbs.

Headings and Subheadings: Do not use more than four levels of heading. The number should always end with a full stop.

Headings and subheadings are numbered to facilitate reference, and should be typed as follows:

1. INTRODUCTION 1.1. INTRODUCTION 1.1.1 Brief history

1.1.1.1 The early days

12 POINT TIMES NEW ROMAN CAPITAL
12 POINT TIMES NEW ROMAN
12 point Times New Roman bold
12 point Times New Roman Italics

Fonts for the text: Times New Roman. The font size can either be 11 or 12. It should be consistent throughout the manuscript.

Page Layout:

- Paper size: Standard, $21 \text{ cm} \times 29.7 \text{ cm}$ (A4).

— Page set-up: Margins: top: 2 cm; bottom: 2.7 cm; left/right: 2.5 cm.

— Alignment of text: Should be set at 'justified'. The first line of a paragraph should not be indented.

— Line spacing: Line spacing should be set at 'single'. Leave a line of blank space between paragraphs.

 Numbering of pages: Alignment outside (under Page Setup/Layout/Headers and Footers, select 'different odd and even'), with numbers in Times New Roman 11 point.

- Leave only one space after a full stop.

Figures and Tables:

- Tables and Figures should be incorporated in the text and not be listed in the end of the manuscript as Annexes. They should be placed close to their first in-text citation.
- Tables and Figures should be numbered consecutively throughout all sections and appendices.
- The size of the table headings and the tables itself should be the same as the size used for the text and this throughout the manuscript. If you have big tables you may use one size smaller, but again the same size should apply throughout the document.
- For **figure** captions, if possible, use one size smaller.
- Do not wrap text around tables and figures.

Figure numbering and captions: Arabic numerals and italics should be used.

The caption should begin at the left-hand margin unless it is shorter than the type width (for portrait figures) or type length (for landscape figures) of the page, in which case it is centred on the page.

A full stop should be added at the end of the figure caption.

The figure precedes the figure caption.

Example:

FIG. 24. Determination of optimum contact time for uranium extraction [5].

FIG. 25. Tonnage of uranium recoverable from EAR-I at costs of up to US \$80/kg U for the period from 1977 to 1990.

Table numbering and headings: Arabic numerals and capitals should be used (no full stop at the end of the table heading).

The Table caption precedes the table.

Example:

TABLE 1. CALCULATED MINIMUM DETECTION LIMITS (MDL) 11°

| Element | MDL (ppm) |
|---------|--------------|
| Cu | 5 |
| Zn | 6 |
| Pb | 12 |

References:

The title 'REFERENCES' is written in 12 point capitalized, Times New Roman bold without any numbering in front. There is no line space between references. References should start on an odd numbered page. References are cited in the text as numbers in square brackets, e.g. [10] corresponding to the order in which they are first mentioned. The order of the items in a reference is indicated below by the numbers in parentheses and illustrated by examples. Inclusion of the titles of articles from journals or conference proceedings is necessary.

A. Books and reports

(1) Name(s) of author(s) or editor(s): surname first, fully capitalized, followed by a comma; then the initial(s), followed by a comma (if the first (or given) name is required in full, only the first letter is capitalized); 'Jr.' or 'III' last, followed by a comma. Editors' names given instead of authors are followed by (Ed.) or (Eds). For a report, if no author is named then the corporate author (if any), i.e. the originating institution, should be given, spelled out in full, in capitals.

(2) Title of book or report, with initial capitals, followed by a comma, then followed by the edition number if necessary (e.g. '2nd edn'). If the work cited is the proceedings of a meeting, 'Proc. Conf.', 'Proc. Symp.', etc., followed by the name of the town, a comma and the year of the meeting, should be added in parentheses (see Ref. [2]).

(3) Volume number in Arabic numerals (even when the volume number in the work cited is in Roman numerals), written as, for example, 'Vol. 1', and not as for journals (see Section C below).

(4) Report number, if any and IAEA Series type, if relevant.

(5) (a) Name of publisher, without Ltd, Inc., & Co., etc. (but note Pergamon Press, Academic Press); or (b) Name of originating institution in full (see Ref. [3]).

(6) (a) The place of publication must be included (maximum two places); or (b) For reports, the place of origin must be included if not already part of the name of

the originating institution (compare Refs [4] and [3]).

(7) The year of publication, in parentheses.

(8) The number of pages may be given (see Ref. [1]).

(9) All references end with a full stop.

Examples:

- STEPHENSON, R., Introduction to Nuclear Engineering, 2nd edn, McGraw-Hill, New York (1958) 491 pp.
- [2] Plasma Physics and Controlled Nuclear Fusion Research 1994 (Proc. 15th Int. Conf. Seville, 1994), 4 vols, IAEA, Vienna (1995).
- [3] TEVEPAUGH, C.W., Impact of the Resource Conservation and Recovery Act on Energy Facility Siting, Rep. ORNL/TM-7768, Oak Ridge Natl Lab., TN (1982).
- [4] DOUGLAS, R.L., HANDS, J.M., Jr., Gamma Radiation Surveys at Inactive Uranium Mill Sites, Technical Note ORP/LV-75-5, Office of Radiation Programs, Environmental Protection Agency, Las Vegas, NV (1975).
- [5] INTERNATIONAL ATOMIC ENERGY AGENCY, Quality Assurance in Biomedical Neutron Activation Analysis, IAEA-TECDOC-323, IAEA, Vienna (1984).

B. Articles and chapters in books and reports

(1) Name(s) of author(s), as in A(1) above.

(2) Title of article or chapter in double quotation marks, with an initial capital only for the first word (see Ref. [5]) and, of course, for proper nouns (see Ref. [6]).

(3) Title of book or report, as in A(2) above. If the article or chapter title is not given, the book or report title should be preceded by 'in' (see Ref. [7]).

(4) Volume number, as in A(3) above (see Ref. [9]).

(5) Name(s) of editor(s) in capitals, followed by a comma and the abbreviation Ed. or Eds, all in parentheses, if the publication is a collection of papers by various authors (see Ref. [5]).(6) As for A(4-7) above.

(7) First page number of article or chapter (and the last if known), or the section or chapter number, followed by a full stop.

Examples:

- [5] HOWLAND, G.P., HART, R.W., "Radiation biology of cultured plant cells", Applied and Fundamental Aspects of Plant Cell, Tissue, and Organ Culture, 2nd edn (REINERT, J., BAJAJ, Y.R.S., Eds), Springer-Verlag, Berlin (in press).
- [6] BURKE, S.D., HOWELL, J.P., "Impact of prolonged wet storage of DOE reactor irradiated nuclear materials at the Savannah River Site", Proc. Topical Mtg on DOE Spent Nuclear Fuel — Challenges and Initiatives, Salt Lake City, 1994, USDOE, Washington, DC (1994) 118–124.
- [7] GLASSER, A.H., CHANCE, M.S., DEWAR, R.L., in Controlled Fusion and Plasma Physics (Proc. 9th Eur. Conf. Oxford, 1979), Vol. 1, Culham Lab., Abingdon (1979) Sect. A3.1.
- [8] KAUFMAN, L., DEW HUGHES, D., in Proc. Conf. on Calculation of Phase Diagrams and Thermochemistry of Alloy Phases, Pittsburgh, PA, 1979.
- [9] GRAMBOW, B., LUTZE, W., "Chemical stability of a phosphate glass under hydrothermal conditions", Scientific Basis for Nuclear Waste Management (Proc. Workshop, Boston, 1979), Vol. 2 (NORTHRUP, C.J.M., Jr., Ed.), Plenum Press, New York (1980) 109-116.

Notes: [i] No commas are needed between the place of publication, the year of publication in parentheses and the page number.

[ii] The year of the meeting and the year of publication should both be given, even when they are the same.

[iii] When the published title of the proceedings is unknown, as much information as possible should be given. If the year of publication is unknown, the year of the meeting should be given, but not in parentheses.

C. Articles in journals

(1) Name(s) of author(s), as in A(1) above.

(2) Title of article if known, not in quotation marks and with initial capitals only for the first word and for proper nouns.

(3) Title of journal, correctly abbreviated.

(4) Volume number in Arabic numerals, in bold type, not preceded by 'Vol.'

(5) Issue number (only required when each issue has page numbers starting from 1 see Refs [10, 11]).

(6) Year of publication in parentheses and bold.

(7) First page number of article (and the last if known).

Examples:

- [10] PEACOCK, K.L., Design of discrete bandpass filters for petroleum exploration, Oil Gas J. 83 42 (1985) 121.
- [11] ROYLE, A.F., Why geostatistics? Eng. Min. J. 180 5 (1979) 92.
- [12] COCHRANE, M.P., DUFFS, C.M., Endosperm cell number in barley, Nature 289 (1981) 399.

D. Other types of reference

A patent (as much information as possible should be supplied):

[13] MACEDO, P.B., LITOVITZ, T.A., SIMMONS, J.H., Fixation of Radioactive Materials in a Glass Matrix, Australian Patent 78/34388/B/, Int. Cl. CO3C 3/30, G21F 9/34, Sep. 1982, filed Mar. 1978; copies available from Commissioner of Patents, Canberra.

A paper without proceedings:

[14] AHLF, J., BELLMANN, D., DITTMER, H., MARTENS, H., "An irradiation capsule for reactor pressure vessel steel with a large specimen volume", IAEA-SR-77/54, paper presented at IAEA Sem. on Research Reactor Operation and Use, Jülich, 1981.

An abstract:

[15] KECKWICK, R.A., Jr., "Labelled antibody technique in communicable disease", Proc. 2nd World Congr. on Nuclear Medicine, Washington, DC, 1978 (abstract).

An IAEA Information Booklet:

[16] INTERNATIONAL ATOMIC ENERGY AGENCY, Nuclear Power, the Environment and Man, Information Booklet, IAEA, Vienna (1984).

Part of the US Code of Federal Regulations:

[17] NUCLEAR REGULATORY COMMISSION, Licensing Requirements for Land Disposal of Radioactive Waste, 10 CFR 61, US Govt Printing Office, Washington, DC (1983).

An electronic publication:

[18] UNITED STATES DEPARTMENT OF ENERGY, Aerosol Fog System for Fixing Radioactive Contamination, Technology Deployment Fact Sheet (1999), http://www.hanford.gov/techmgmt/factsheets/deploys/fogger.htm



Participation Form

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IAEA Headquarters, Vienna, Austria

20–23 July 2020

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: <u>Official.Mail@iaea.org</u> or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary <u>F.Reitsma@iaea.org</u> and to the Administrative Secretary <u>A.Szentirmai@iaea.org</u>.

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 May 2020

| 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: | | | |



Form for Submission of a Paper

Technical Meeting on the Status, Design Features, Technology Challenges and Deployment Models of Microreactors

IAEA Headquarters, Vienna, Austria

20-23 July 2020

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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 May 2020

| Title of the paper: | | | |
|--|---|--------------|--|
| If applicable: Abstract ID in IAEA | A-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 and first name(s) of author presenting the paper (same as in passport):Mr/Ms: | | | |
| Mailing address: | | | |
| Tel. (Fax): | | | |
| Email: | | | |

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|--|
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| Please note: If granting the licence mentioned above, please supply any copyright acknowledgement text required. |
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| 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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IAEA Headquarters, Vienna, Austria

20-23 July 2020

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: <u>Official.Mail@iaea.org</u> or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary <u>F.Reitsma@iaea.org</u> and to the Administrative Secretary <u>A.Szentirmai@iaea.org</u>.

Deadline for receipt by IAEA through official channels: 15 May 2020

| 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: | |

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_____