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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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In reply please refer to: **EVT1701772**

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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 the Phenomenology, Simulation and Modelling of Accidents in Spent Fuel Pools** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **2 to 5 September 2019**.

The purpose of the event is to provide a forum for information exchange on the analysis of cooling accidents in spent fuel pools at water cooled reactors.

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. 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 **14 June 2019** 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 Secretaries of the event, Mr Alexei Miassoedov, Division of Nuclear Power, Department of Nuclear Energy (Email: A.Miassoedov@iaea.org) and 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, Ms Ana Szentirmai (Email: A.Szentirmai@iaea.org). The Scientific Secretaries 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 assure the IAEA's Member States of its highest consideration.



2019-04-18

Enclosures:

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



Technical Meeting on the Phenomenology, Simulation and Modelling of Accidents in Spent Fuel Pools

**IAEA Headquarters
Vienna, Austria**

2–5 September 2019

Ref. No.: EVT1701772

Information Sheet

Introduction

The IAEA International Experts' Meeting on Strengthening Research and Development Effectiveness in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant, held in Vienna in 2015, prepared a list of recommendations for research and development (R&D) activities to be promoted by the IAEA. This comprehensive list represents compiled experts' views on the needs for further R&D activities and international cooperative efforts. It was further refined at the Training Meeting on Post-Fukushima Research and Development Strategies and Priorities held in December 2015. One of the most important priorities identified is to investigate spent fuel pool (SFP) loss of cooling and loss of coolant accidents and their consequences. The current knowledge is based on experimental data and computer simulations which, however, have significant gaps. A majority of the computer codes are specifically developed for the core analysis in loss of coolant accident scenarios and are used to estimate the effects of such conditions in the SFPs. Severe accident analysis tools based on computational modelling of the conditions that lead to such accidents and the accident propagations in the SFPs of water cooled reactors account for partially uncovered fuel assemblies, hydrogen production, and high-temperature oxidation kinetics and burst behaviour of cladding in mixed air–steam conditions. Currently, the simulation tools used to analyse the cooling accidents in SFPs of light water reactors include computer codes for nuclear criticality safety, thermal-hydraulics, fuel rod behaviour and severe accidents. Significant gaps and uncertainties exist in these codes when applied to the specific conditions of SFP accidents. In addition, a comprehensive severe accident code system for SFP accident analysis

does not exist, because of the significantly different conditions and fuel arrangements in reactor cores compared to those in SFPs.

In 2017, the IAEA held a Technical Meeting on the Status and Evaluation of Severe Accident Simulation Codes for Water Cooled Reactors. The meeting discussed the status of the state-of-the-art severe accident codes and identified near-term needs for further improvement and development; the technical document (TECDOC) resulting from this meeting will be issued in 2019. The 2017 meeting did not cover analysis, simulation and modelling of severe accidents in SFPs. These topics were left for the upcoming event.

Objectives

The overall purpose of this event is to capture state-of-the-art knowledge on the phenomenology of severe accidents in SFPs and on codes which are being applied to analyse severe accident propagation in SFPs. The event will also serve as a forum for Member States to exchange knowledge on current and new code developments and methodologies, identify the gaps for future improvements, and gather information for collaboration on all these aspects.

Contributions to the event in the form of technical papers, presentations and session discussions will result in the preparation of a TECDOC. This TECDOC is intended to represent an objective summary of the reference information for interested organizations, individuals, code developers and code users. It will also provide the public with a harmonized overview of efforts in these areas.

The event will have the following specific objectives, with an emphasis on achieving a better understanding of drivers for improvement, testing and the further development of codes with capabilities to address risks associated with accidents in SFPs, failure of the spent fuel, and the subsequent release of fission products:

- Exchange information on the codes dedicated to SFP severe accident analysis, their capabilities and validation status;
- Discuss the current gaps and therefore the prospects for future R&D dedicated to SFP accident analysis; and
- Discuss and review possible preventive or mitigative measures.

The event will include discussion sessions to enable participants to contribute to the summary and highlights of the event, and to make recommendations to the IAEA on future activities in this area.

Target Audience

The event is open to representatives of nuclear power organizations from Member States considering, planning or expanding a nuclear power programme, including government organizations (policy makers, analysts, regulators and R&D agencies), and industry (vendors, engineering companies, plant operators and technology developers).

Working Language(s)

English

Expected Outputs

The expected outputs of this event are as follows:

- Collection of up-to-date information from Member States on methodologies and numerical models and codes being used for the assessment and modelling of severe accidents in SFPs;
- Exchange of information on ongoing R&D in code development and validation, and identification of needs for new experimental data required to more accurately assess the capabilities of the codes dedicated to SFP severe accident analysis; and
- Report (for subsequent development of a TECDOC) summarizing the discussions held and the results presented.

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 **14 June 2019**. 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 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.

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 **14 June 2019**.

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:

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

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 Requirements

Technical papers from contributors are being sought on the event's special topical areas.

Technical papers should be written following the instructions provided in the Appendix and must be submitted electronically in the form of a Microsoft Word document to the Scientific Secretaries of the

event, Mr Alexei Miassoedov (Email: A.Miassoedov@iaea.org) and Ms Laura McManniman (L.Mcmaniman@iaea.org). The deadline for submission of papers is **14 June 2019**.

Those authors whose papers are accepted will be informed of the acceptance of their contributions by **5 July 2019**. They will then be requested to prepare and submit their presentations in Microsoft PowerPoint or as a PDF file by email to the Scientific Secretaries of the event, Mr Alexei Miassoedov (Email: A.Miassoedov@iaea.org) and Ms Laura McManniman (Email: L.Mcmaniman@iaea.org) by **9 August 2019**.

This event will include technical and discussion sessions addressing the following special topical areas:

- Phenomenology of severe accident progression in SFPs;
- Computer codes and models dedicated to the analysis of severe accidents in SFPs;
- Validation and verification status of computer codes dedicated to the analysis of severe accidents in SFPs; and
- Methods to identify potential mechanisms and conditions for failure of the spent fuel, and the subsequent releases of the fission products.

IAEA Contacts

Scientific Secretaries

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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

IAEA Required Format

Paper length: 10-12 pages

Paper format to strictly follow the below instructions

TITLE: 14 POINT

Authors Names and Affiliation, 12 POINT

Default language: Should be set to English (UK). However, please note that Agency style is to use “...ization” rather than “...sation” and “...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	12 POINT TIMES NEW ROMAN CAPITAL
1.1. INTRODUCTION	12 POINT TIMES NEW ROMAN
1.1.1 Brief history	12 point Times New Roman bold
<i>1.1.1.1 The early days</i>	<i>12 point Times New Roman Italics</i>

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

Page Layout:

- **Paper size:** Standard, 21 cm × 29.7 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:

- [1] 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 (NORTHROP, 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

2–5 September 2019

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 Secretaries of the event, Mr Alexei Miassoedov (Email: A.Miassoedov@iaea.org) and Ms Laura McManniman (Email: L.Mcmanniman@iaea.org) and to the Administrative Secretary Ms Ana Szentirmai (Email: A.Szentirmai@iaea.org).

Please attach a passport copy or other document of identification (ID).

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: 14 June 2019

Family name: (e.g. Smith)	First name(s): (e.g. John)	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 Phenomenology, Simulation and Modelling of Accidents in Spent Fuel Pools

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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: 14 June 2019

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:		

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Furthermore, I herewith declare:

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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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Deadline for receipt by IAEA through official channels: 14 June 2019

Family name: (e.g. Smith)	First name(s): (e.g. John)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yyyy/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 attended 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**
