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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

Vienna International Centre, PO Box 100, 1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) • Internet: <https://www.iaea.org>

In reply please refer to: CN-279; EVT1902962

Dial directly to extension: (+43 1) 2600-21315

La Secretaría del Organismo Internacional de Energía Atómica (OIEA) saluda a los Estados Miembros del OIEA y tiene el honor de señalar a su atención la celebración de la **Conferencia Internacional sobre Seguridad Radiológica: Mejorar la Protección Radiológica en la Práctica**, que se celebrará en la Sede del OIEA en Viena (Austria) del **9 al 13 de noviembre de 2020**.

La finalidad de la conferencia es ofrecer un foro para que los Estados Miembros intercambien información y experiencias relacionadas con la protección radiológica, haciendo especial hincapié en los desafíos prácticos que plantea la protección de los trabajadores, los pacientes, el público y el medio ambiente.

La conferencia se celebrará en inglés.

Se invita a los Estados Miembros a difundir el anuncio y la invitación a presentar memorias adjuntos entre el público destinatario de la conferencia y a designar a participantes mediante el Formulario A. Asimismo, se los alienta encarecidamente a seleccionar a mujeres calificadas para que participen en la conferencia.

Por lo general, el OIEA no está en condiciones de sufragar los gastos de viaje ni de otra índole de los participantes en la conferencia. No obstante, dispone de fondos limitados para ayudar a cubrir los gastos de asistencia de determinados participantes. Esa ayuda puede ofrecerse normalmente, previa solicitud expresa, a un participante por país, siempre que, en opinión del OIEA, la persona para la que se solicita pueda hacer una contribución importante a la conferencia.

Las solicitudes de apoyo financiero, mediante el Formulario C, y la presentación de memorias, mediante el Formulario B, pueden tenerse en cuenta únicamente si se reciben dentro del plazo indicado en la sección M del anuncio e invitación a presentar memorias.

Cabe señalar que el OIEA no paga ninguna indemnización por daños o pérdida de efectos personales. Tampoco proporciona seguro médico a los participantes en eventos. Por lo tanto, se recomienda que estas personas adopten las medidas necesarias para contratar por su cuenta un seguro privado. No obstante, el OIEA cubrirá mediante un seguro los accidentes y las enfermedades claramente relacionados con los servicios prestados al OIEA.

La Secretaría del Organismo Internacional de Energía Atómica aprovecha esta oportunidad para reiterar a los Estados Miembros del OIEA el testimonio de su distinguida consideración.



12 de noviembre de 2019

Documentación adjunta (en inglés únicamente):

Anuncio e invitación a presentar memorias

Formulario de participación (Formulario A)

Formulario de presentación de memorias (Formulario B)

Formulario de solicitud de subvención (Formulario C)



**IAEA**

**International Atomic Energy Agency**

*Atoms for Peace and Development*

# **International Conference on Radiation Safety: Improving Radiation Protection in Practice**

**IAEA Headquarters  
Vienna, Austria**

**9–13 November 2020**

**Organized by the  
International Atomic Energy Agency (IAEA)**

**In cooperation with the**  
European Commission (EC)  
Food and Agriculture Organization of the United Nations (FAO)  
International Labour Organization (ILO)  
OECD Nuclear Energy Agency (OECD-NEA)  
Pan American Health Organization (PAHO)  
United Nations Environment Programme (UNEP)  
World Health Organization (WHO)

## **Announcement and Call for Papers**

## A. Introduction

The International Atomic Energy Agency's (IAEA's) fundamental safety objective, as stated in *Fundamental Safety Principles* (IAEA Safety Standards Series No. SF-1), is to protect people and the environment from the harmful effects of ionizing radiation without unnecessarily restricting the many beneficial applications of radiation enjoyed by society.

Radioactivity and radiation sources are widely used in medicine, industry, research and agriculture, as well as for electricity generation, and make an important contribution to economic development and people's well-being. New applications of radiation are constantly being developed, posing ongoing challenges to ensure that an appropriate balance is maintained between the risks and the benefits, both for individuals and for society more broadly, from these activities. Maintaining public confidence requires that workers, patients, the public and the environment are adequately protected.

The system of radiological protection is based on three basic principles: justification, optimization and dose limitation. The principle of justification requires that decisions involving radiation exposure should do more good than harm. This concept is not unique to radiological protection, as many decisions in everyday life involve balancing benefits and risks. Once a decision has been made that a particular action is justified, the principle of optimization is applied. This requires that the selected radiation protection option be the best under the prevailing circumstances. Decisions on justification and optimization include societal, economic and environmental considerations. In many instances, the benefits considered in justification or in optimization accrue to society in general rather than to individuals. The third principle requires that no individual be subject to unnecessary radiation risks; this is ensured by limiting radiation doses received by individuals.

Over the years, the system of radiological protection has evolved in line with new scientific knowledge on the effects of radiation exposure. However, the system is not just about science; ethics and the sense of what is acceptable have also changed and should be appropriately reflected. This has brought particular challenges in that societal aspects will often be viewed — and therefore valued — differently in different circumstances, potentially resulting in different outcomes following the optimization process. Decision makers need to understand that their decisions have consequences and that radiation protection is normally only one of the factors to be considered.

Since publication of the International Commission on Radiological Protection (ICRP) recommendations in 2007, the IAEA safety standards classify radiation exposure into three categories: planned exposure situations, emergency exposure situations and existing exposure situations. Planned exposure situations are equivalent to what was previously referred to as 'practices' and are characterized by the fact that arrangements for protection and safety can be made prior to initiating the activity. On the other hand, both emergency exposure situations and existing exposure situations are not planned in advance and, as such, need to be managed differently.

Large-scale nuclear and radiological emergencies are rare, but when they do occur they can have impacts well beyond the State in which they take place. To adequately respond to such events, protection strategies need to be developed at the planning stage and, when necessary, implemented in a timely manner. Emergencies can also arise from the loss and misuse of sealed sources; while the impact of such events tends to be more localized, the radiation doses received by the exposed individuals are often much greater.

Existing exposure situations in particular cover a wide range of facilities and activities — including radon in homes, radionuclides in food and drinking water, international trade in commodities and consumer products, industrial applications involving exposure to naturally occurring radioactive material, and exposure of aircrew to cosmic radiation — and decisions on if and how to regulate these areas can be particularly challenging.

In 2014, the IAEA General Safety Requirements Part 3, *Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards* (GSR Part 3), established requirements for protection and safety aimed at improving radiation protection of people and the environment. GSR Part 3 is supported by a large number of safety guides that address radiation safety in specific industries and for specific

sub-groups of the population. These safety guides build on the requirements of GSR Part 3 and provide practical advice, based on national experiences, on how the requirements can be implemented.

Against this background, the IAEA is organizing the International Conference on Radiation Safety: Improving Radiation Protection in Practice in Vienna, from 9 to 13 November 2020. The Conference is being organized in cooperation with the European Commission, the Food and Agriculture Organization of the United Nations, the International Labour Organization, the Nuclear Energy Agency of the Organisation for Economic Co-operation and Development, the Pan American Health Organization, the United Nations Environment Programme and the World Health Organization.

## **B. Objectives and Expected Outcomes**

The Conference aims to take stock of the worldwide radiation safety situation. It will provide a forum for the exchange of information on Member States' experiences in applying the system of radiological protection, as provided for in the IAEA safety standards, to the protection of workers, patients, the public and the environment. Both natural and artificial radiation sources fall within the scope of the Conference.

A particular focus will be given to the lessons learned from applying GSR Part 3 and improvements that could be considered to further facilitate its application. Discussion on changes in approach considered necessary for effectively dealing with new and emerging challenges in radiation protection is expected and encouraged.

The Conference has been scheduled to allow for input from the 5th International Symposium on the System of Radiological Protection, which is being organized by the ICRP and will be held in Adelaide, Australia, from 17 to 21 November 2019 and from the 15th International Congress of the International Radiation Protection Association, which will take place in Seoul, Republic of Korea, from 11 to 15 May 2020.

In preparing the programme for the Conference, the views of Member States were sought through regional workshops organized in Argentina (for the Americas region), Cyprus (for the Europe region), Singapore (for the Asia and the Pacific region) and the United Republic of Tanzania (for the Africa region). These workshops identified the key implementation issues in each region that would benefit from detailed discussion at the international level.

## **C. List of Topics**

The IAEA welcomes high-quality contributions on **all** aspects of the system of radiological protection, focusing in particular on the topics listed below. This is not an exhaustive list and other relevant topics will also be considered for inclusion.

### **1. Justification and optimization:**

- Accounting for societal values;
- Decision making and stakeholder involvement; and
- Review of justification decisions.

### **2. Dose constraints and reference levels:**

- How to establish appropriate dose constraints and reference levels;

- Regulatory and operational lessons;
- Optimization below the reference level; and
- Development and use of diagnostic reference levels.

**3. Applying the graded approach:**

- The graded approach to regulation;
- The graded approach to operational radiation protection;
- Managing hazards and risks.

**4. Conservatism in radiation protection:**

- Conservatism in the linear–no threshold model;
- Conservatism in dose assessment and modelling; and
- Communicating radiation risks.

**5. Planned exposure situations:**

- Practical application of radiological protection standards;
- Occupational dose limit for the lens of the eye;
- Authorized discharges and protection of people and the environment;
- Criteria for release of patients following administration of radionuclides; and
- Dose limit for the public in planned exposure situations.

**6. Emergency exposure situations:**

- Radiological criteria for transition;
- Optimized protection strategies; and
- Managing exposures of workers and the public.

**7. Existing exposure situations:**

- Radon in homes and workplaces;
- Natural and artificial radionuclides in food and drinking water; and
- Cosmic ray exposure of aircrew and space crew; implications of space tourism.

**8. Non-medical human imaging:**

- Exposures in medical facilities;
- Exposures in non-medical facilities; and
- Justification, optimization and ethical aspects.

**9. Exemption and clearance:**

- Exemption of practices and materials;
- Clearance of materials; and

- Trade in contaminated commodities.

#### **10. Capacity building:**

- Education and training;
- Competence in radiation protection; and
- Safety culture.

## **D. Target Audience**

The Conference, which will identify the key challenges and possible solutions in radiation protection that need to be addressed by the international community, will be of interest to regulators, researchers, operators and radiation protection professionals.

## **E. Structure**

The **opening session** will include welcome addresses from the IAEA and the Conference President. This will be followed by a keynote address and presentations by the cooperating organizations on key radiation protection challenges. The keynote speaker will be announced well in advance of the commencement of the conference.

A series of **topical sessions** will address key radiation protection issues. Each topical session will include invited and submitted papers and will conclude with a general discussion. A final decision on the issues to be covered and the papers to be presented in each topical session will be made by the Programme Committee.

**Round-table discussions** will be organized, providing the opportunity for focused discussions and feedback from the conference participants on relevant topics.

Depending on the number of abstracts received, **poster sessions** will also be organized.

The **closing session** will include a summary of the main conclusions of the conference, delivered by the Conference President, and closing remarks from the IAEA.

## **F. Papers and Posters**

All participants who wish to give presentations (orally or in the form of posters) at the conference must submit a synopsis on one of the topics listed under Section C. All submissions, apart from invited papers, must present original work and should not have been published elsewhere.

### **F.1. Submission of Synopses**

Synopses (one or a maximum of two printed A4 pages, including figures and references) must be uploaded to the conference's file submission system (IAEA-INDICO), which will be available on the

conference web page (see Section P) from **20 January 2020** until **15 March 2020**. No other submission route will be accepted. Specifications for the layout will be available on INDICO.

In addition, authors must electronically submit the following two forms to their appropriate governmental authority (see Section G) for transmission to the IAEA. These forms must be received by the IAEA no later than **1 June 2020**:

- Participation Form (Form A)
- Form for Submission of a Paper (Form B)

**IMPORTANT:** The Programme Committee will consider uploaded synopses only if these two forms have been received by the IAEA through the established official channels (see Section G).

## **F.2. Acceptance of Synopses**

The Secretariat reserves the right to exclude synopses that do not comply with its technical or scientific quality standards and/or that do not apply to one of the topics in Section C above.

This conference has plenary technical sessions, so no parallel technical sessions will be organized. For this reason, the number of contributions that can be accepted for oral presentation is limited. Authors who prefer to present their papers as posters are requested to indicate this preference on Form A and in INDICO, at the time of submitting their extended synopsis.

Authors will be notified by **15 July 2020** as to whether their submission has been accepted for presentation at the conference, either orally or as a poster.

## **F.3. Proceedings**

Following the conference, the IAEA will publish a report containing summaries of the plenary and technical sessions. The proceedings will be made free to read online and print copies can be ordered, at a special discounted price, during or after the conference.

# **G. Participation and Registration**

All persons wishing to participate in the conference must be designated by an IAEA Member State or should be members of organizations that have been invited to attend. The list of invited organizations can be requested from the Conference Secretariat (see Section O).

In order to be designated by an IAEA Member State, participants are requested to send the following form(s), as applicable, to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority):

- Participation Form (Form A): participation only; no deadline if only Form A is submitted.
- Form for Submission of a Paper (Form B): participants submitting a paper through INDICO must send the completed and signed Form B together with Form A to their competent national authority for onward transmission to the IAEA ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) by **1 June 2020**.
- Grant Application Form (Form C): participants requesting financial support from the IAEA, must complete Form C and send it together with Form A (and Form B, if applicable) to the competent national authority for onward transmission to the IAEA ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) by **1 June 2020**. Form C must be stamped and signed by the competent national authority.

Participants who are members of an organization invited to attend are requested to send the above form(s) through their organization to the IAEA ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)).

In addition, participants are requested to pre-register online through the IAEA web page for the conference.

## H. 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 conference. The IAEA has, however, limited funds at its disposal to help cover 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 conference.

If Governments wish to apply for a grant on behalf of one of their participants, the Participation Form (Form A) and the Grant Application Form (Form C), stamped and signed by the Government, must reach the IAEA ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) by **1 June 2020**.

Applications that do not comply with the above conditions cannot be considered.

**The IAEA will set aside some of the available funding to support young professionals under the age of 35 who are expected to make an important contribution to the conference.**

Approved grants will be issued in the form of a lump sum payment that usually **covers only part of the cost of attendance**.

## I. Distribution of Documents

A preliminary programme will be made available on the conference web page (see Section P) before the start of the conference. The final programme and all accepted synopses will be available upon on-site registration at the conference.

## J. Working Language

The working language of the conference will be English. All communications must be sent to the IAEA in English.

## K. Venue and Accommodation

The conference will be held at the IAEA's Headquarters in Vienna, Austria. Participants must make their own travel and accommodation arrangements. Hotels offering a reduced rate for participants are listed on <https://www.iaea.org/events>. Please note that the IAEA is not in a position to assist participants with hotel bookings, nor can the IAEA assume responsibility for paying fees for cancellations, re-bookings and no-shows.

## L. Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as early as 3 months but not later than four weeks before their travel. 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.

For more information, please see the Austria Visa Information on <https://www.iaea.org/events>.

## M. Key Deadlines and Dates

Submission of synopses through IAEA-INDICO	<b>15 March 2020</b>
Submission of Form B (together with Form A) through official channels	<b>1 June 2020</b>
Submission of Form C (together with Form A) through official channels	<b>1 June 2020</b>
Notification of acceptance of extended synopsis for oral or poster presentation	<b>15 July 2020</b>
Submission of Form A only (no paper submission, no grant request)	<b>No deadline</b>

## N. Exhibits

A limited amount of space will be available for commercial vendors' displays/exhibits during the conference. Interested parties should contact the Scientific Secretariat by email to [RP2020@iaea.org](mailto:RP2020@iaea.org) before **1 June 2020**.

## O. Conference Secretariat

### General postal address and contact details of the IAEA:

International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA  
Tel.: +43 1 2600  
Fax: +43 1 2600 2007  
Email: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)

**Scientific Secretary of the Conference:**

**Mr Tony Colgan**

Division of Radiation, Transport and Waste Safety

Department of Nuclear Safety and Security

Tel.: +43 1 2600 24271

Fax: +43 1 26007

E-mail: [RP2020@iaea.org](mailto:RP2020@iaea.org)

**Administration and organization:**

**Ms Martina Khaelss**

Conference Services Section

Division of Conference and Document Services

Department of Management

IAEA-CN-279; EVT1803899

Tel.: +43 1 2600 21315

E-mail: [M.Khaelss@iaea.org](mailto:M.Khaelss@iaea.org)

Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on administrative matters to the IAEA's Conference Services Section.

## **P. Conference Web Page**

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

<https://www.iaea.org/events/international-conference-on-radiation-safety-2020>.







# Form for Submission of a Paper

**International Conference on Radiation Safety:  
Improving Radiation Protection in Practice  
IAEA Headquarters, Vienna, Austria**

**9–13 November 2020**

To be completed by the participant and sent to the competent official 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), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed).

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: 1 June 2020**

Title of the paper:		
Abstract id in IAEA-INDICO:		
Family name(s) and first name(s) of author(s): (same as in passport(s)) (if more than 3, please indicate them in INDICO)	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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**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 holder 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

**International Conference on Radiation Safety:  
 Improving Radiation Protection in Practice**  
 IAEA Headquarters, Vienna, Austria

**9–13 November 2020**

To be completed by the applicant and sent to the competent official 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), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed).

**Deadline for receipt by IAEA through official channels: 1 June 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 the 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** \_\_\_\_\_