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IRPA15 Secretariat

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IRPA 15

15th International Congress of the International Radiation Protection Association

11(Mon) – 15(Fri) May 2020 | COEX, Seoul, Korea

Bridging Radiation Protection Culture and Science - Widening Public Empathy



First Announcement





Congress Overview

Congress

15th International Congress of the International Radiation Protection Association (IRPA15)

Date

11(Mon) – 15(Fri) May 2020

Venue

COEX, Seoul, Korea

Official Language

English

Congress Theme

Bridging Radiation Protection Culture and Science – Widening Public Empathy

Expected Participants

2,500 participants from over 90 countries

Website

www.irpa2020.org

Important Dates

Abstract Submission Open

1 June 2019

Abstract Submission Deadline

- Oral Presentation: 30 September 2019 (Notified by 31 December 2019)
- Poster Presentation: 31 December 2019 (Notified by 31 January 2020)

Full Papers(Oral/Poster) Submission Deadline

31 March 2020

Early Registration Deadline

31 January 2020

Standard Registration Deadline

26 April 2020

Invitation

Dear Delegates and Friends,

On behalf of the IRPA 15 International Congress Organising Committee (ICOC), it is my great pleasure to invite you to the 15th International Congress of the International Radiation Protection Association (IRPA) to be held on 11-15 May 2020 in Seoul, Korea.

The Organising Committee has put in a tremendous effort to make the most highly acclaimed congress in radiation protection even more rewarding and enjoyable, with a comprehensive and inspiring scientific programme while maintaining the IRPA traditions and promoting mutual friendship.

Under the theme of “Bridging Radiation Protection Culture and Science –Widening Public Empathy”, IRPA 15 will provide invaluable opportunities to discuss and strengthen the correlation between Radiation Protection culture and science, and share developing scientific knowledge and related experiences in radiation protection not only among experts but also with the public.

In light of the Fukushima Daiichi nuclear disaster, the significance of radiation protection and the focus on it is growing day by day. At the same time, irrational perceptions of radiation exposure are spreading fast. At such a moment, our duty as radiation protection professionals to disseminate accurate information and cultivate a more reasonable perception is more important than ever before, so that the public can empathize with the issue of radiation risk and protection.

As a city with more than a 600-year history, Seoul, the nation's capital and the venue city of this congress, possesses a wealth of historical monuments, tourist attractions and vivid lifestyles in an exceptionally safe environment. Excellent hotels and the attractive meeting venue (COEX), which is the most modern, high-tech facility in Asia, will make your participation as easy and comfortable as possible.

I would like to express my heartfelt appreciation for your interest in IRPA 15, and I look forward to welcoming you to Seoul in 2020 for the IRPA 15.

Jong Kyung KIM

Chairman

IRPA15 International Congress Organising Committee



Congress Theme

Bridging Radiation Protection Culture and Science – Widening Public Empathy

After the Fukushima Daiichi nuclear power plant accident in 2011, the importance of radiation protection culture and public empathy as well as radiation protection science has emerged and is widely accepted as one of essential elements for the sound, practical, and effective implementation of the radiation protection principles and technologies in the international radiation protection community.

Science is a basic and essential element of radiation protection. Despite the recent rapid development of radiation protection science, ethical and social value judgments as well as practical field experiences have gradually emerged and are important elements in the international system of radiation protection.

As witnessed at the Fukushima Daiichi nuclear power plant accident in 2011, an apparent gap of understanding between experts and the public resulted in difficulties in the proper implementation of radiation protection measures and strategies. Experience from radiological emergencies highlights the importance of public communication and empathy as one of the most important challenges in radiation protection. Sometimes, an event is not considered to be a danger to experts but is perceived otherwise by the public. Also, the public intends to strongly make their own arguments when considering and facing the risk of radiation exposure.

“Empathy” implies a connection, which goes beyond communication – it means that there must be an emotional engagement, a full understanding and recognition of how the parties feel about the issue, which must be central to an ability to move forward. Without public empathy, a decision for implementation of radiation protection criteria, though it is based on sound science, has to go through lots of difficulties. Indeed, the public empathy includes comprehensive natures such as transparency, stakeholder involvement, self-help protection and an informed consent/decision.

The adoption of the theme “Bridging Radiation Protection Culture and Science – Widening Public Empathy” for the IRPA15 Congress reflects the strong commitment of the IRPA15 Organising Committee to provide invaluable opportunities to discuss and strengthen the correlation between Radiation Protection culture and science, and share various scientific knowledge and experiences on radiation protection not only among experts but also with the public. The IRPA15 Congress will certainly contribute to opening a new pathway to the development of future system of radiation protection, which is to be based on public empathy.





Scientific Programme

The scientific programme will comprehensively address the full scope of radiation protection science and practice, grouped into eight Topic Areas. In addition, four cross cutting Themes have been identified for exploration, as appropriate within the Topic Areas or in specific Overview Sessions.

Topic Areas	Themes	A Ethics	Communication, Public Understanding and Stakeholders	C Human Capital & Competency	D Culture
T1. Underpinning Science					
T1.1 Dose and dose rate dependence of cancer risk					
T1.2 Non-cancer effects of ionizing radiation					
T1.3 Individual radiation sensitivity					
T1.4 Processes influencing radionuclide transfers and exposure of humans and wildlife					
T1.5 Ecological consequences of exposure of biota					
T1.6 Effect of social, psychological and economic aspects on radiation protection behaviour					
T2. Dosimetry and Measurement					
T2.1 Dosimetry					
T2.2 Numerical and computational dosimetry: mathematical methods and models applied to radiation dosimetry					
T2.3 Instrumentation and metrology					
T2.4 Tools and quality criteria for epidemiology and radiation risk assessment					
T3. System of Protection, Standards and Regulation					
T3.1 Experience in implementing ICRP publications recommendations					
T3.2 Protection standards for special populations (including pregnant women, children)					
T3.3 Influence of dose response models on standards and regulations					
T3.4 Education, training, human capital					
T3.5 Role of stakeholder engagement in the system of radiological protection					
T3.6 Managing the natural environment: challenges of regulating terrestrial and cosmic exposures					
T4. Practical Implementation of Radiation Safety in Medical Facilities					
T4.1 Design of medical radiation facilities					
T4.2 Radiation safety of staff in the medical facilities					
T4.3 Patient radiation safety					
T4.4 Patient dosimetry					
T4.5 Radiation safety applied to - advances in medical imaging, advances in radiotherapy/brachytherapy and advances in radionuclide therapies					

Topic Areas	Themes	A Ethics	Communication, Public Understanding and Stakeholders	C Human Capital & Competency	D Culture
T5. Practical Implementation: Industry and Research					
T5.1 Mining and mineral processing					
T5.2 Nuclear fuel cycle					
T5.3 Nuclear power plants					
T5.4 Industrial and research applications					
T5.5 Transport					
T5.6 Waste management and disposal					
T6. Emergency Preparedness and Response					
T6.1 International standards and national regulations					
T6.2 Radiological, environmental and social impacts of the accident					
T6.3 Waste management and remediation strategy					
T6.4 Management of contaminated goods					
T6.5 Management of occupational exposures					
T6.6 Health and environmental surveillance					
T6.7 Communication during and after an emergency					
T6.8 Transition from an emergency exposure situation to an existing exposure situation					
T7. Existing Exposures					
T7.1 Radon and thoron					
T7.2 Terrestrial radiation and radionuclides					
T7.3 Cosmic radiation					
T7.4 Naturally occurring radioactive materials (NORM) and technically enhanced naturally occurring radioactive materials (TENORM)					
T7.5 Post-accident					
T8. Non-ionizing Radiation					
T8.1 International standards and national regulations					
T8.2 NIR radiation protection culture (IR versus NIR)					
T8.3 Diagnostic devices using NIR					
T8.4 Role of stakeholder engagement in the system of NIR protection					
T8.5 NIR-based cosmetic devices: what is needed to ensure protection?					
T8.6 RF technologies: upcoming scientific challenges (e.g. epidemiology, dosimetry, ...)					
T8.7 Ultrasound and infrasound: medical and non-medical applications					
T8.8 Ultraviolet radiation					
Thematic Overview Sessions					
		A Ethics	Communication, Public Understanding and Stakeholders	C Human Capital & Competency	D Culture



Notification

Young Scientists Awards

The 15th International Congress of the International Radiation Protection Association (IRPA15) will offer prizes for the best and highly qualified presentations by young scientists and professionals. The details will be announced in due course.

Publications

Full proceedings will be published as IRPA15 Congress Proceedings and some selected papers will also be published in leading peer-reviewed journals.

Refresher Courses

Refresher courses on radiation protection science and practice will be held to provide the opportunity to update and remind knowledge and skills. There will be two different types of course aimed at experts and beginners including young professionals, respectively.

Bursary Support

IRPA will provide bursary support from the Montreal Fund to support attendance at IRPA15 of participants, specifically young professionals preferably from developing countries. The detailed process for the application will be announced on the website (www.irpa2020.org).

Technical Visits

IRPA15 offers technical programmes for participants to visit nuclear power plants, cancer hospital, and nuclear research institute.

General Information

Registration

Online registration is available through website (www.irpa2020.org) from October 2019.

Category	Early Registration	Standard Registration	On-site Registration
	1 Oct 2019 – 31 Jan 2020	1 Feb 2020 – 26 April 2020	11 May 2020 -15 May 2020
Regular	USD 1,000	USD 1,250	USD 1,400
YP*	USD 750	USD 940	USD 1,050
Student	USD 500	USD 625	USD 700
One-day	USD 560	USD 560	USD 560

* YP: Young Professionals under the age of 35

Sponsorship and Exhibition

An extensive exhibition will be held in parallel with the congress. For further information on the exhibition and sponsorship opportunities, please visit the congress official website (www.irpa2020.org) or contact IRPA15 secretariat at info@irpa2020.org.

Social Programme

IRPA15 offers an array of exciting social programmes to bring Korea closer to all participants.

Organisation

IRPA15 ICOC (International Congress Organising Committee)

Chairman	Jong Kyung Kim <i>Hanyang University, Korea</i>
Vice-Chairman	Kun-Woo Cho <i>Korea Institute of Nuclear Safety, Korea</i>
General Secretary	Tae-Suk Suh <i>The Catholic University, Korea</i>
Deputy General Secretary	Hee-Seock Lee <i>Pohang University of Science and Technology, Korea</i>
Secretary	Hee Seo <i>Korea Atomic Energy Research Institute, Korea</i>
Treasury Committee Chair	Ho Sin Choi <i>Korea Institute of Nuclear Safety, Korea</i>
Treasury Committee General Secretary	Sung Hwan Kim <i>The Catholic University, Korea</i>
Promotion & Marketing Committee Chair	Yong Kyun Kim <i>Hanyang University, Korea</i>
Promotion & Marketing Committee General Secretary	Keon Wook Kang <i>Seoul National University, Korea</i>
Exhibition Committee Chair	Moon Hee Han <i>Korea Atomic Energy Research Institute, Korea</i>
Technical Visit Committee Chair	Bong-Hwan Kim <i>Korea Atomic Energy Research Institute, Korea</i>
Social Event Committee Chair	Eun-Ok Han <i>Korea Academy of Nuclear Safety, Korea</i>
Young Scientist Awards	Jin-Sung Kim <i>Yonsei University, Korea</i>

IRPA15 ICPC (International Congress Programme Committee)

Chairman	Wolfgang Weiss <i>German-Swiss Association for Radiation Protection, Germany</i>
IRPA President	Roger Coates <i>International Radiation Protection Association, UK</i>
Core Group	Mike Boyd <i>Health Physics Society, USA</i>
	Marina Di Giorgio <i>Sociedad Argentina de Radioprotección, Argentina</i>
	Sisko Salomaa <i>Nordic Society for Radiation Protection, Finland</i>
	John Takala <i>Canadian Radiation Protection Association, Canada</i>
	Jim Thurston <i>Society for Radiological Protection, UK</i>
Corresponding Group	Shinji Tokonami <i>Japan Health Physics Society, Japan</i>
	Ludovic Vaillant <i>Société Française de Radioprotection, France</i>
	52 Members from 27 Countries
Collaboration Organisations	13 International Organisations
	- International Atomic Energy Agency (IAEA)
	- International Commission on Non-Ionizing Radiation Protection (ICNIRP)
	- International Commission on Radiological Protection (ICRP)
	- International Commission on Radiation Units and Measurements (ICRU)
	- International Labour Organization (ILO)
	- International Organization for Medical Physics (IOMP)
	- International Society of Radiographers and Radiological Technologists (ISRRT)
	- National Council on Radiation Protection and Measurements (NCRP)
	- OECD Nuclear Energy Agency (OECD/NEA)
	- Pan American Health Organization (PAHO)
	- United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
	- World Health Organization (WHO)
- World Nuclear Association (WNA)	
Scientific Secretary	Kyo-Youn Kim <i>Korea Atomic Energy Research Institute, Korea</i>
Deputy Scientific Secretary, Abstract Review	Geehyun Kim <i>Sejong University, Korea</i>
Oral & Poster Review	Seonyoung Nam <i>Korea Hydro & Nuclear Power Co., Ltd., Korea</i>
Refresher Courses	Yong-Min Kim <i>Catholic University of Daegu, Korea</i>
Proceedings & Publications	Chul Hee Min <i>Yonsei University, Korea</i>

IRPA15 ICSC (International Congress Support Committee)

Chairman	Steven King <i>Health Physics Society, USA</i>
General Secretary	Kwang Pyo Kim <i>Kyunghee University, Korea</i>
Secretary	Eui Kyu Chie <i>Seoul National University, Korea</i>

IRPA15 Advisory Committee

Chairman	Myung-Chul Lee <i>The Korean Academy of Science and Technology, Korea</i>
General Secretary	Woo Yoon Park <i>The Korean Association for Radiation Protection, Korea</i>
International Advisor	Jacques Lochar <i>Société Française de Radioprotection, France</i>