



IGRP

2022 Annual Report

Established in Stockholm 27 July 1928



ICRP 2022 Annual Report

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www.icrp.org

UK Charity Number 1166304

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CANADA

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Chair's Foreword

In 2022, ICRP took a significant step forward in several areas, making it one of our busiest years to date in our now 95 years of existence. Following the success of our digital Workshop on “Future of Radiological Protection” in October 2021 with as much as 1500 registrations from about 100 countries, we understood that such digital formats would provide us a promising opportunity to engage with our stakeholders. Consequently, with the Review and the Revision of the System of Radiological Protection in full swing and our body of ongoing work more demanding than ever, we have developed a series of digital events that continue to grow in frequency and functionality.

As a new feature, we introduced a flexible fee structure, ensuring that anyone around the world can register and attend these events at no cost. For those able to contribute at varying levels, however, their support directly impacts our ability to keep our program of work progressing and accessible. Whether it is putting on an online event at the beginning of a new Task Group, a webinar to present published results, or a workshop during the consultation period of a report, these events are all designed to support participation, inclusion, and transparency. As we work towards the next set of general recommendations that will guide radiological protection for the decades to come, these digital events will play a critical role to ensure those recommendations remain fit for purpose.

Digital events also allow us to be more prudent with our carbon footprint. We have ambitious goals that will require more meetings, with more colleagues and more organisations than ever before. Wherever possible, we are committed to minimising our impact on the environment – one of the various options we have to support the

sustainable development of our planet as laid down in the Sustainable Development Goals formulated by the United Nations.

Nevertheless, face-to-face meetings did take place in 2022, including our flagship event, the ICRP 2021⁺¹ Symposium in Vancouver, British Columbia. About 500 experts from over 40 countries gathered in Canada to discuss “Radiological Protection – The Next Generation”. Here, we announced the **Vancouver Call for Action** that is set to encourage funding organisations, research institutions, and universities in their efforts to strengthen expertise in radiological protection worldwide. A special thank you to the Canadian Nuclear Safety Commission (CNSC), Health Canada, and the Canadian Radiation Protection Association (CRPA) for their partnership, collaboration, and support during ICRP 2021⁺¹.

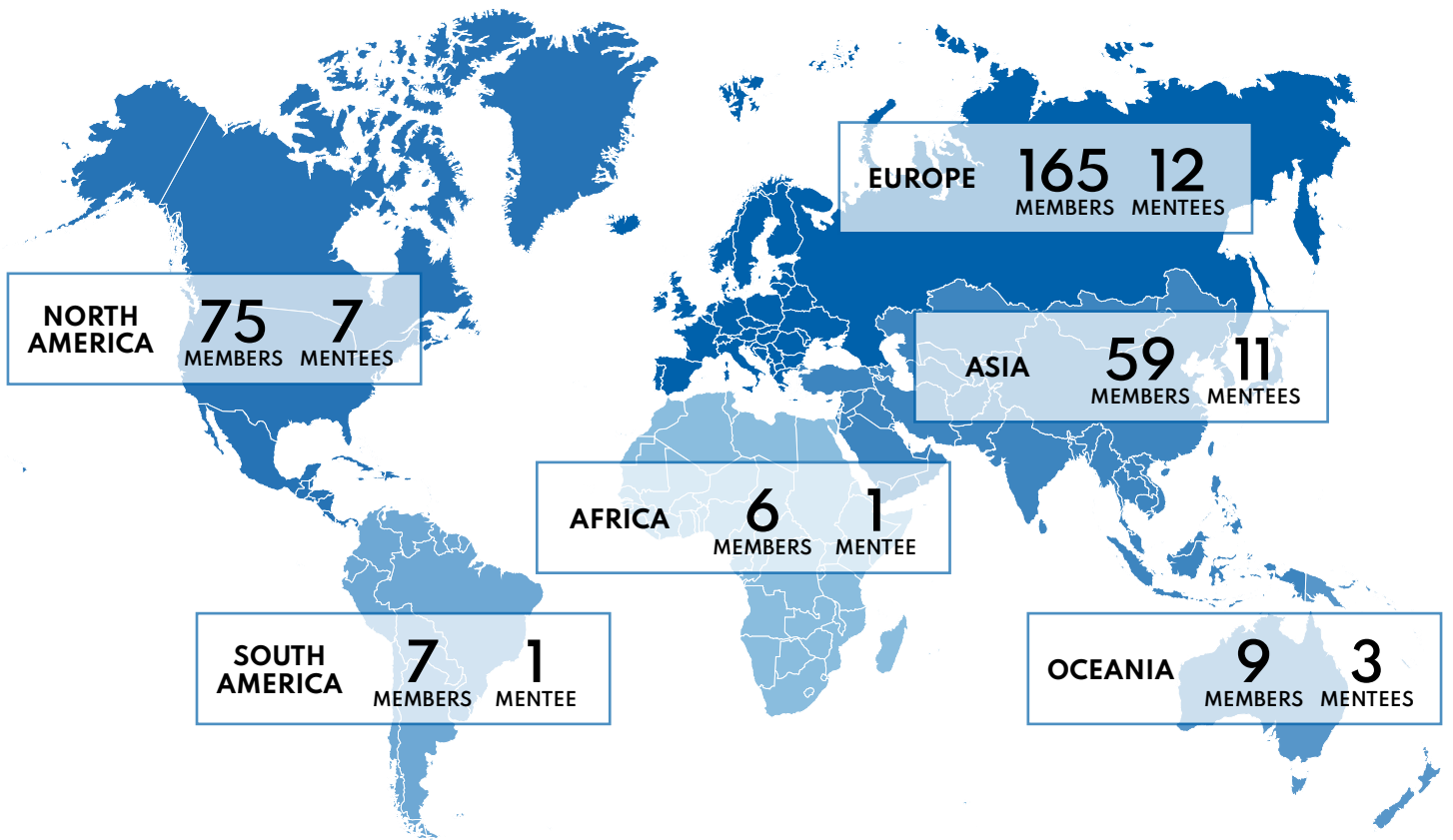
In November of 2023, I am looking forward to welcoming the radiological protection community from around the world to Tokyo, Japan, for ICRP 2023. With our co-host the National Institutes for Quantum Sciences and Technology (QST), special partners at the Japanese Radiation Research Society (JRRS), Japan Health Physics Society (JHPS), and several other local Japanese organisations, we're excited to present an attractive programme with unprecedented engagement.



Werner Rühm
ICRP Chair



Membership



TOTAL: 356 (AS OF 31 DECEMBER 2022)

Mentees are also members, but counted separately here to highlight them.

2022 Mentees

TG 99 Katherine Raines

TG 105 Megan Cook

TG 110 Anthony Davila

TG 111 Stephen Barnard
Andreas Breitbarth
Sasha Jande
Julie Leblanc
Weiwei Pei
Prabal Subedi

TG 113 Yumi Lee
Wyatt Smither

TG 114 Momo Takada

TG 116 Abdullah Abuhaimed
Buthaina Al Ameri
Zakiya Al Rahbi
Abdel-Hai Benali

TG 116 Ana Cravo Sá
Mario Djukelic
Sebastien Gros
Anja Lazovic
Aliaksandr Miadzvetski
Francisco Sánchez
Maria Cristine Plazas d'Leon
Yiannis Roussakis
Hossam Ragab Shaaban
Snezana Vostinic

TG 119 Suryakanta Acharya
Juancong Dong
Yumi Saigusa
Bhanu Prasad Venkatesulu

TG 121 Aidana Amrenova
Ämilie Louize Degenhardt-Erbe
Sara Dumit
Liudmila Liutsko
Shayen Sreetharan

2022 Highlights

On the first of January, the free-to-access library of ICRP publications was extended to the 2020 issues of **Annals of the ICRP**: Publication 143 Paediatric Computational Reference Phantoms, Publication 144 Dose Coefficients for External Exposures to Environmental Sources, Publication 145 Adult Mesh-type Reference Computational Phantoms, Publication 146 Radiological Protection of People and the Environment in the Event of a Large Nuclear Accident, and the Proceedings of the Fifth International Symposium on the System of Radiological Protection.

Most activities in 2022 were related to the review and revision of the System of Radiological Protection launched mid-2021. This included publishing the open access paper **'Summary of the 2021 ICRP Workshop on the Future of Radiological Protection'** (Rühm et al., 2022), outlining results from the first major opportunity for the RP community to provide input into the process.

In October, ICRP organised a Workshop on the Future of Radiological Protection during the European Radiation Protection Week in Estoril, Portugal, specifically to gather feedback on the open-access paper **'Areas of Research to Support the System of Radiological Protection'** (Laurier et al., 2021).

Most notably, the **6th International Symposium on the System of Radiological Protection**, which had been postponed due to pandemic travel restrictions, was renamed ICRP 2021⁺¹ and held in Vancouver, Canada in November 2022. Under the overarching theme 'Radiological Protection – The Next Generation', the event attracted about 500 in-person participants from over 40 countries, with more joining remotely. Full details

of the programme are available on the ICRP website, including recordings of the sessions, and proceedings will be published soon.



Over 100 ICRP members attended ICRP 2021⁺¹

During ICRP 2021⁺¹, ICRP Chair Werner Rühm announced the 'Vancouver Call for Action to Strengthen Expertise in RP Worldwide' (Rühm et al., 2023), details of which were **published** in early 2023.

Reflecting ICRP's aim to be as transparent and accessible as possible, nine additional **open events** were held during the year: six online, one hybrid, and two in-person. Information is available on the ICRP website, including all available recordings.

Reflecting global concern and uncertainty, in May ICRP issued a **Statement on the Conflict in Ukraine** noting ICRP's mission to continue to work world-wide to protect people and the environment. In August, **ICRP Publication 146 Radiological Protection of People and the Environment in the Event of a Large Nuclear Accident** was made free to access earlier than scheduled. Two months later, the mandate of **Task Group 120** on radiation emergencies was extended to include nuclear detonations of limited size, and **'Advice for the Public on Protection in Case of a Nuclear Detonation'** was released online in more than a dozen languages.

2022 Events

Recordings for most
events available at
www.ICRP.org

TG 118 WORKSHOP

EXPLORING RBE

PART ONE

16 MARCH 2022

International Organization for Medical Physics **ICRP**
UK Registered Charity 156304

IOMP-ICRP Webinar

20 APRIL 2022

TG 118 WORKSHOP

EXPLORING RBE

PART TWO

17 MAY 2022

Effects of Ionising Radiation Exposure in Offspring and Next Generations

Budapest, Hungary



31 MAY - 2 JUNE 2022

ICRP 

ICRP-IRPA Virtual Workshop

Application of the
Concepts of Tolerability
and Reasonableness in
the Medical Field

20-21 JUNE 2022

ERPW/ICRP Workshop on the Future of RP

ERPW 2022
Estoril, Portugal



10 OCT
2022

TG 108 Digital Workshop: Part 1

OPTIMISATION OF RP IN DIGITAL RADIOLOGY TECHNIQUES FOR MEDICAL IMAGING

26-27 OCTOBER 2022



ICRP2021⁺¹

7-10 NOV 2022 • VANCOUVER

Introducing ICRP
Publication 152

RADIATION DETRIMENT CALCULATION METHODOLOGY

9 DECEMBER 2022

FANR   **ICRP**

Radiological Protection of the Patient in Radiation Oncology

Current Challenges
and the Future

Abu Dhabi, United Arab Emirates

13-15 DECEMBER 2022

Global Engagement

ICRP is actively involved world-wide, engaging with many organisations and individuals with an interest in radiological protection. In 2022, this included, for example:

Participation in two International Radiation Protection Association (IRPA) Regional Congresses, the 1st North American IRPA Regional Congress, held in St. Louis, Missouri, USA, and the 6th European IRPA Regional Congress, held in Budapest, Hungary

Lecture at the NEA International Radiation Protection School (Sweden)

Participation in the International Advanced Training Course organised by Nagasaki University Research and Support Centre for the Future of Fukushima (Japan)

Co-organisation with the UAE Federal Authority for Nuclear Regulation and Cleveland Clinic Abu Dhabi of the training course Radiological Protection of the Patient in Radiation Oncology: Current Challenges and the Future (UAE)

Participation in meetings of:

- IAEA Radiation Safety Standards Committee (Vienna)
- Inter-Agency Committee on Radiation Safety
- NEA Committee on Radiological Protection and Public Health (France)
- United Nations Scientific Committee on the Effects of Atomic Radiation (Vienna)
- World Nuclear Association Radiation Protection Working Group



ABOVE: Thierry Schneider, ICRP Main Commission Member and Committee 4 Chair, speaks at the IAEA International Conference on Occupational Radiation Protection in Switzerland in September 2022.

LEFT: ICRP members, including Scientific Secretary and CEO Christopher Clement, join colleagues in the UAE for the Radiological Protection of the Patient in Radiation Oncology: Current Challenges and the Future workshop in December 2022.

Global Engagement

Presentations at:

- Canadian Nuclear Association Annual Meeting (Canada)
- Federal/Provincial/Territorial Radiation Protection Committee meeting (Canada)
- Health Physics Society Annual Meeting (USA)
- IAEA International Conference on Occupational Radiation Protection (Switzerland)
- Interagency Steering Committee on Radiation Standards (USA)
- 7th International Conference on Radiation Medicine (Saudi Arabia)
- IUPESM World Congress on Medical Physics and Biomedical Engineering (Singapore)
- 1st North American IRPA Regional Congress, hosted by the US Health Physics Society (USA)
- North Central Chapter of the Health Physics Society Spring Technical Meeting (USA)

BELOW: In June 2022, Christopher Clement, ICRP Scientific Secretary and CEO, presents on the Review and Revision of the System of Radiological Protection at the 52nd Meeting of the IAEA Radiation Safety Standards Committee in Vienna, Austria.



RP for the Next Generation

In 2021, more than a decade since the current (2007) General Recommendations were released, ICRP launched a review and revision of the System of Radiological Protection to ensure it continues to be fit for purpose, protecting people, animals, and the environment for the next generation. This was announced through two open access papers, and an opportunity for the RP community to provide feedback:

Keeping the ICRP Recommendations Fit for Purpose

(Clement et al., 2021)

Journal of Radiological Protection



Areas of Research to Support the System of Radiological Protection

(Laurier et al., 2021)

Radiation and Environmental Biophysics



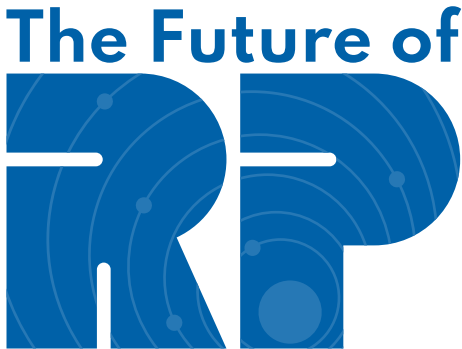
Digital Workshop on the Future of Radiological Protection

2021



RP for the Next Generation

In 2022, this was followed by a paper summarising the views from the Digital Workshop, another workshop to gather feedback on the 'Areas of Research Paper' (in conjunction with European RP Week in Portugal), and, most notably ICRP2021⁺¹, ICRP's 6th International Symposium on the System of Radiological Protection.



**The Future of
RP**

Summary of the 2021 ICRP
Workshop on the Future of
Radiological Protection

(Rühm et al., 2021)

Journal of Radiological Protection



ICRP2021⁺¹

6th International
Symposium on the System
of Radiological Protection

Having identified elements of the System to be reviewed, several Task Groups were initiated during the year:

TASK GROUP 122

Update of Detriment
Calculation for Cancer

TASK GROUP 123

Classification of Harmful Radiation-induced
Effects on Human Health for RP Purposes

TASK GROUP 124

Application of the
Principle of Justification

TASK GROUP 125

Ecosystem Services in
Environmental RP

TASK GROUP 126

Radiological Protection in
Human Biomedical Research

TASK GROUP 127

Exposure Situations and
Categories of Exposure

ICRP2021⁺¹

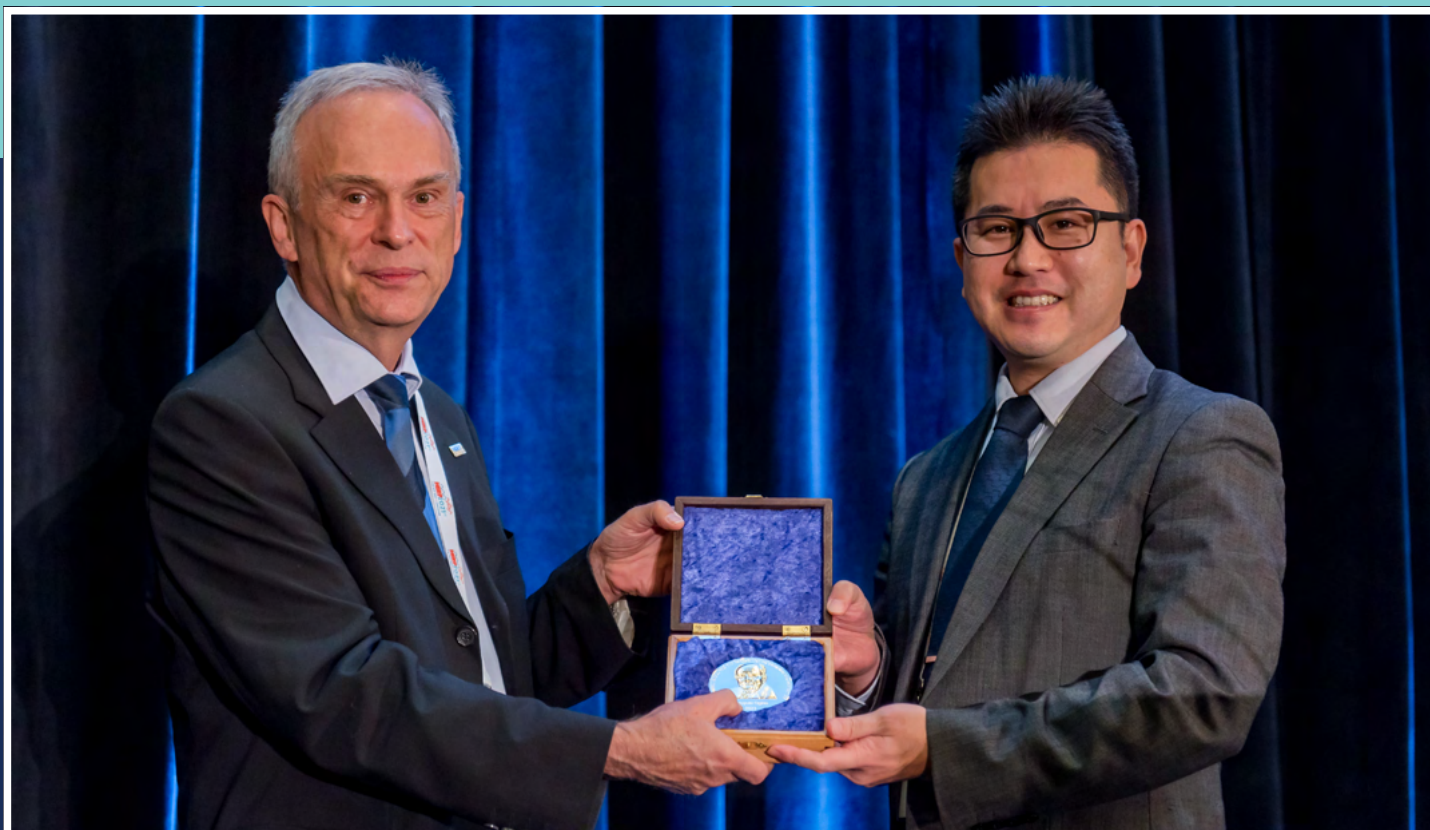
7-10 NOV 2022 🍁 VANCOUVER

6th International Symposium on the System of Radiological Protection

Although delayed by a year due to the COVID-19 pandemic, the 6th International Symposium on the System of Radiological Protection brought together experts from across the globe to meet on the shores of Vancouver, Canada.

RIGHT: Bob MacDonald gives his keynote speech titled The Future is Now: Solving the Climate Crisis with Existing Technology.

BELOW: Werner Rühm, Chair of the ICRP Main Commission, presents Haruyuki Ogino of Japan with the 2021 Bo Lindell Medal for the Promotion of Radiological Protection during the opening session.





LEFT:
Over 150 digital posters were presented at ICRP 2021⁺¹, allowing attendees to access posters at any time from anywhere with their devices. All posters and live session recordings are available to view on www.icrp.org

BELOW:
Gary Abbott of the White Thunder Dance Theatre performs a hoop dance during the ICRP 2021⁺¹ Awards Gala.

ICRP 2021⁺¹ consisted of four days of programming with the overarching theme Radiological Protection - The Next Generation, which reflects the need to review and refine the System of Radiological Protection over the coming decade to ensure it remains fit for purpose for the next generation, and highlights the importance of innovation and involving the next generation of scientists and professionals in this pursuit.

Event Statistics

500
DELEGATES

154
POSTERS

from

40+
COUNTRIES

90
PRESENTATIONS

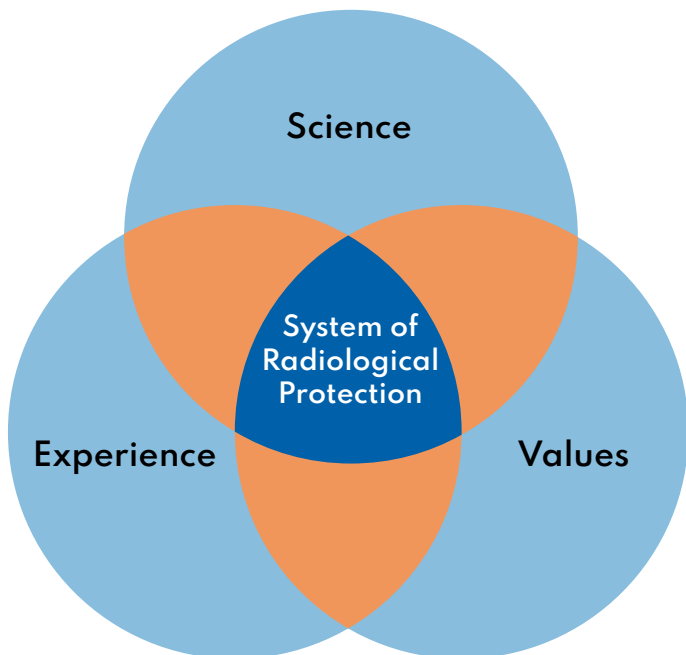


The System of Radiological Protection

The objective of the System is to contribute to an appropriate level of protection for people and the environment against the harmful effects of ionising radiation exposure without unduly limiting the individual or societal benefits of activities involving radiation.

ICRP develops the System for the public benefit. It is based on the latest science, social and ethical values, and over a century of experience since the discovery of ionising radiation.

The System is the basis of standards, regulations, guidance, programmes, and practice worldwide. It is used by intergovernmental and nongovernmental advisory and standard setting agencies; regulatory authorities; educational, scientific, and healthcare institutions; operators; individual professionals; and others with an interest in radiological protection.



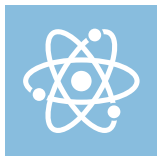
Vancouver Call For Action

To Strengthen Expertise in Radiological Protection Worldwide

At ICRP2021⁺ in Vancouver, ICRP Chair Werner Rühm announced the [Vancouver Call for Action to Strengthen Expertise in Radiological Protection Worldwide](#), to address concerns that a shortage of investment in training, education, research, and infrastructure will compromise society's ability to manage radiation risks. This could lead to unjustified exposure to or unwarranted fear of radiation, impacting physical, mental, and social well-being. It could also unduly limit the potential for research and development in new radiation technologies (for example, in healthcare, energy, and the environment) for beneficial purposes. ICRP calls for action to strengthen expertise in radiological protection worldwide through:



National governments and funding agencies strengthening resources for radiological protection research allocated by governments and international organisations.



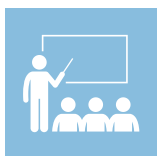
National research laboratories and other institutions launching and sustaining long-term research programmes.



Universities developing undergraduate and graduate university programmes and making students aware of job opportunities in radiation-related fields.



Using plain language when interacting with the public and decision makers about radiological protection.



Fostering general awareness of proper uses of radiation and radiological protection through education and training of information multipliers.

This will be addressed at ICRP 2023 in Tokyo, Japan.



[Vancouver Call for Action to Strengthen Expertise in Radiological Protection Worldwide](#) (Rühm et al., 2023) is available for free as an open access paper through the journal of *Radiation and Environmental Biophysics*.

[READ NOW](#)



International Commission on Radiological Protection

Originally established at the Second International Congress of Radiology in 1928 as the International X-ray and Radium Protection Committee, today ICRP is an independent international charity registered in the UK, relying on financial contributions and support from governments, industry, agencies, foundations, and individuals from around the world.

ICRP consists of the Main Commission, the Scientific Secretariat, four standing Committees, and Task Groups established as needed to undertake specific work. Members come from over 40 countries and all disciplines relevant to radiological protection. They are invited to join ICRP as independent experts on a volunteer basis for four-year terms. Representatives of organisations in formal relations with ICRP are regularly invited to both advise the Main Commission and to participate in meetings of the Committees. Individuals from these organisations may be invited to be members of Task Groups or to review drafts of work in progress where their expertise is particularly relevant.

This structure supports a rigorous system of peer review. The work of Task Groups is reviewed by the relevant Committee(s), and then reviewed and approved by the Main Commission. During development, most reports are circulated to several organisations and individual experts for critical review and all are posted for public consultation through the ICRP website.

32

ACTIVE TASK GROUPS

94

YEARS IN OPERATION

35

ACTIVE MENTORSHIPS

152

NUMBERED PUBLICATIONS

35

FORMAL RELATIONS

356

MEMBERS

As of 31 December 2022

MAIN COMMISSION

SCIENTIFIC SECRETARIAT

COMMITTEE 1
EFFECTS

COMMITTEE 2
DOSE

COMMITTEE 3
MEDICINE

COMMITTEE 4
APPLICATION

TASK GROUPS

Main Commission

The Main Commission consists of the Chair and up to twelve other members. The Main Commission is the governing body, setting the policy and programme of work, and approving all official publications.

READ NOW
2022 Main Commission Meeting Summaries



Werner Rühm
Chair



Donald Cool
Vice-Chair



Dominique Laurier
Committee 1
Chair



François Bochud
Committee 2
Chair



Kimberly Applegate
Committee 3
Chair



Thierry Schneider
Committee 4
Chair



Simon Bouffler
Member



Kun Woo Cho
Member



Gillian Hirth
Member



Michiaki Kai
Member



Senlin Liu
Member



Sergey Romanov
Member



Andrzej Wojcik
Member

Scientific Secretariat

The Scientific Secretariat manages the daily business of ICRP.
The core group is based in Ottawa, Canada.



Christopher Clement

Scientific Secretary & CEO

Editor-in-Chief of
Annals of the ICRP



Takashi Yasumune

Assistant Scientific Secretary

Associate Editor of
Annals of the ICRP



Hyungjoon Yu

Assistant Scientific Secretary

Associate Editor of
Annals of the ICRP



Lynn Lemaire

Executive
Administrator



Kelsey Cloutier

Head of Stakeholder
Engagement and
Communications



Charlotte White

Brand and Digital
Media Specialist

Scientific Secretariat

Other members work part-time from their home countries.



Suryakanta Acharya
Technical Writer



Abdulkadir Alaydarous
Technical Secretary



Barrington Brevitt
Technical Writer



Adrienne Ethier
Technical Secretary



Franklin Eze
Technical Secretary



Luana Hafner
Intern



Toshihiro Higuchi
Historian



Camille Pacher
Technical Secretary



Constantinos Zervides
Technical Secretary

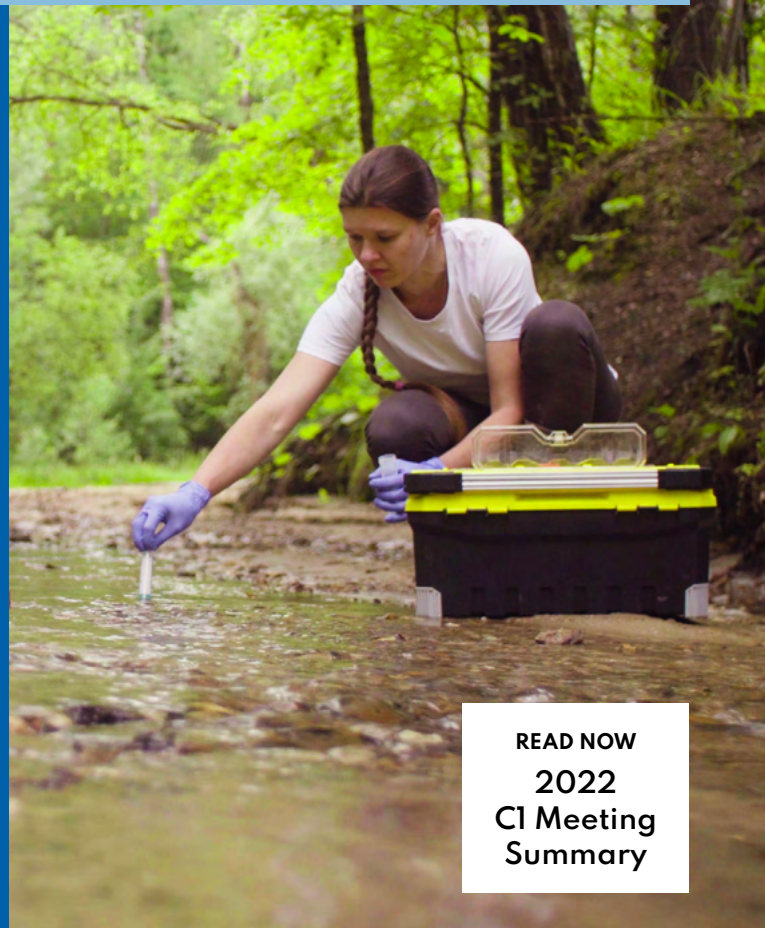
Boniface Kouamé Yao
Technical Secretary



Committee 1: Effects

Considers the effects of radiation action from the subcellular to population and ecosystem levels, and assesses implications for protection of people and the environment

Dominique Laurier *Chair*
Gayle Woloschak *Vice-Chair*
Elizabeth Ainsbury *Secretary*
Christelle Adam-Guillermin *Preetha Rajaraman*
Tamara Azizova *David Richardson*
Christophe Badie *Yoshiya Shimada*
Dimitry Bazyka *Mikhail Sokolnikov*
Agnès Francois *Quanfu Sun*
Michael Hauptmann *Ludovic Vaillant*
Manoor Prakash Hande *Richard Wakeford*
Kotaro Ozasa *Luana Hafner Intern*



READ NOW
2022
CI Meeting
Summary

Committee 2: Dose

Develops dosimetric methodology for the assessment of internal and external radiation exposures for use in the protection of people and the environment

François Bochud *Chair*
Francois Paquet *Vice-Chair*
Maria Antonia Lopez *Secretary*
Martin Andersson *Choonsik Lee*
Volodymyr Berkovskyy *Junli Li*
Denison de Souza Santos *James W. Marsh*
Augusto Giussani *Nina Petoussi-Henss*
Derek Jokisch *Tatsuhiko Sato*
Chan Hyeong Kim *Tracy Smith*
Mukund Shrinivas Kulkarni *Alexander Ulanowski*
Stephanie Lamart



READ NOW
2022
C2 Meeting
Summary

Committee 3: Medicine

Addresses protection of persons and unborn children when ionising radiation is used in medical diagnosis, therapy, and biomedical research, as well as protection in veterinary medicine

Kimberly Applegate Chair

Colin Martin Vice-Chair

David Sutton Secretary

Marie-Claire Cantone

John Damilakis

Makoto Hosono

Aurelie Isambert

Mika Kortesiemi

Mahadevappa Mahesh

Josep M Martí-Climent

Jin Chul Paeng

Claudia E. Ruebe

William Small

Aste Sovik

Isabelle Thierry-Chef

Ivan Williams

Weihai Zhuo



READ NOW
2022
C3 Meeting
Summary

Committee 4: Application

Provides advice on the application of the Commission's recommendations for the protection of people and the environment in an integrated manner for all exposure situations

Thierry Schneider Chair

Nicole Martinez Vice-Chair

Jacqueline Garnier-Laplace Secretary

Min Baek

Nobuhiko Ban

Yann Billarand

Julie Burt

Analia Canoba

Eduardo Gallego

Daniele Giuffrida

Catrin Baureus Koch

Yahong Mao

Andy Mayall

Anne Nisbet

Sergey Shinkarev

John Takala

Hiroko Yoshida

Friedo Zölzer

READ NOW
2022
C4 Meeting
Summary



Task Groups

Active as of 31 December 2022

Most of the work of ICRP, in particular the development of reports to be published in Annals of the ICRP, is done by Task Groups. Often, a Task Group is established to develop a single publication, although some develop multiple publications. On occasion, a Task Group is established for other purposes, such as to prepare advice to the ICRP Main Commission.

In 2022, ICRP established six new task groups that address the following topics: updating detriment calculations for cancer (TG 122); reviewing how harmful radiation effects are classified (TG 123); application of justification in exposure situations (TG 124); how ecosystem services can be incorporated into radiological protection of the environment (TG 125); radiological protection in human biomedical research (TG 126); and categorising exposure situations (TG 127). Along with the 26 already active Task Groups and future Task Groups, they will contribute to the review and revision of the System of Radiological Protection.



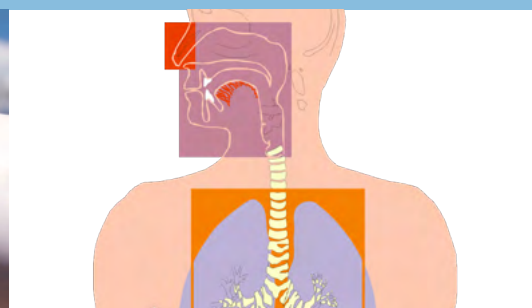
TG 36

Radiation Dose to Patients in Diagnostic Nuclear Medicine



TG 91

Radiation Risk Inference at Low-dose and Low-dose Rate Exposure for RP Purposes



TG 95

Internal Dose Coefficients



TG 96

Computational Phantoms and Radiation Transport



TG 97

RP for Surface and Near Surface Disposal of Solid Radioactive Waste



TG 98

Exposures Resulting From Contaminated Sites From Past Industrial, Military and Nuclear Activities

Task Groups

Active as of 31 December 2022



TG 99

Reference Animals
and Plants (RAPs)
Monographs



TG 102

Detriment Calculation
Methodology



TG 103

Mesh-type Reference
Computational
Phantoms (MRCP)



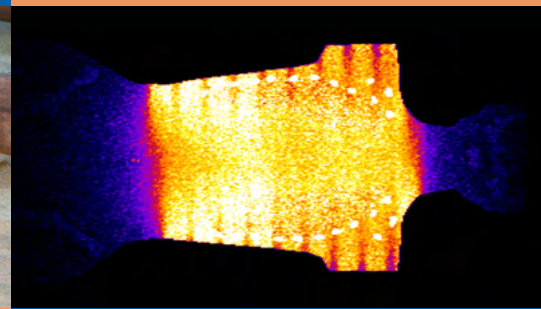
TG 105

Considering
the Environment
When Applying the
System of RP



TG 106

RP for Activities
Involving Mobile High
Activity Sources



TG 108

Optimisation of RP in
Digital Radiography,
Fluoroscopy, and CT in
Medical Imaging



TG 109

Ethics in RP for
Medical Diagnosis
and Treatment



TG 110

RP in Veterinary
Practice



TG 111

Factors Governing the
Individual Response
of Humans to Ionising
Radiation

Task Groups

Active as of 31 December 2022



TG 112

Emergency
Dosimetry



TG 113

Reference Organ and Effective
Dose Coefficients for Common
Diagnostic X-Ray Imaging
Examinations



TG 114

Reasonableness and
Tolerability in the
System of RP



TG 115

Risk and Dose
Assessment for RP
of Astronauts



TG 116

RP Aspects
of Imaging in
Radiotherapy



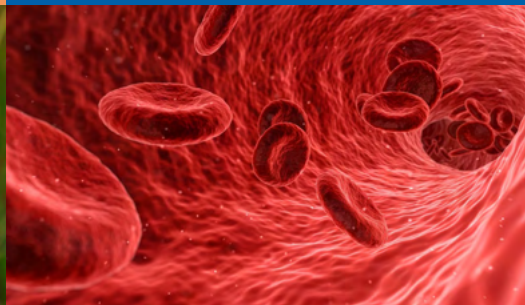
TG 117

RP in PET
and PET/CT



TG 118

Relative Biological
Effectiveness (RBE), Quality
Factor (Q), and Radiation
Weighting Factor (wR)



TG 119

Effects of Ionising Radiation
on Diseases of the Circulatory
System and Their Consideration
in the System of RP



TG 120

RP for Radiation
Emergencies and
Malicious Events

Task Groups

Active as of 31 December 2022



TG 121

Effects of Ionising Radiation Exposure in Offspring and Next Generations



TG 122

Update of Detriment Calculation for Cancer



TG 123

Classification of Harmful Radiation-induced Effects on Human Health for RP Purposes



TG 124

Application of the Principle of Justification



TG 125

Ecosystem Services in Environmental RP



TG 126

RP in Human Biomedical Research



TG 127

Exposure Situations and Categories of Exposure

Sustainability

In 2022, ICRP prioritised sustainability, a key feature of the [Vancouver Call for Action](#), by starting to assess its own carbon footprint, the vast majority of which is due to travel for international meetings. Although some in-person meetings remain important and will continue, online meetings are now preferred. In 2022, approximately two-thirds of all ICRP Main Commission, Committee and Task Group meetings were held online.

Publications Released in 2022

The journal *Annals of the ICRP* is the authoritative source for recommendations and guidance of the International Commission on Radiological Protection. It was established in 1977 and is published by SAGE UK.

Thanks to the many organisations and individuals that supported the Free The Annals initiative on the occasion of ICRP's 90th anniversary in 2018, two years after publication all issues are free to download. The latest issues are available by subscription or can be purchased individually from SAGE.

ANNALS OF THE
ICRP

PUBLICATION 151

Occupational Intakes of
Radionuclides: Part 5

VOLUME 51 NO. 1-2, 2022

ISSN 0146-6453 • ISBN 9781529603071



Publication 151 Occupational Intakes of Radionuclides: Part 5

Recommended citation

ICRP, 2021. Occupational Intakes of Radionuclides: Part 5. ICRP Publication 151. *Ann. ICRP* 51 (1-2).

Authors on behalf of ICRP

F. Paquet, R.W. Leggett, E. Blanchardon,
M.R. Bailey, D. Gregoratto, T. Smith, G. Ratia,
E. Davesne, V. Berkovski, J.D. Harrison

Publication 152 Radiation Detriment Calculation Methodology

Recommended citation

ICRP, 2022. Radiation detriment calculation methodology. ICRP Publication 152. *Ann. ICRP* 51(3).

Authors on behalf of ICRP

E. Cléro, L. Vaillant, W. Zhang, N. Hamada,
D. Preston, D. Laurier, N. Ban

ANNALS OF THE
ICRP

PUBLICATION 152

Radiation Detriment Calculation
Methodology

VOLUME 51 NO. 3, 2022

ISSN 0146-6453 • ISBN 9781529619003



ICRP Mentorships

ICRP's mentorship programme engages university students and early-career professionals and scientists as mentees in ICRP Task Groups with the guidance of an ICRP member as mentor. Mentees may come from educational, governmental, private, or any other organisation. This is a part-time voluntary arrangement, with mentees continuing to work at their home organisation most of the time. Every mentee has a specific task or role, making an important contribution to the work of the Task Group.



“

My experience in the ICRP Mentorship Programme has been incredibly rewarding, as I'm having the unique opportunity to learn from and collaborate with Radiation Protection experts from around the world! I'm honored to be a mentee of ICRP Task Group 121 and truly grateful to serve our scientific community!

”

Sara Dumit, TG 121 Mentee



“

It's given me a new point of view on radiation protection, in particular seeing the different ways that experts and authorities work across the globe to achieve that shared goal – it's been like stepping into a whole new world!

”

David Sibenaler, TG 120 Mentee



“

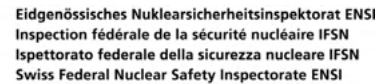
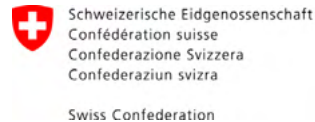
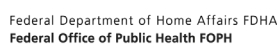
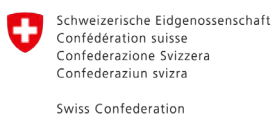
The ICRP mentorship programme is a wonderful opportunity to gain experience by working with excellent specialists in their field. This opportunity for direct contact, the chance to ask questions and benefit from their wealth of experience are, in my opinion, the most important, as they allow you to expand the horizons of your own research. It is also a great opportunity to work on something relevant in the radiation research community.

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Piotr Pankowski, TG 116 Mentee

Global Supporters

The contributions from these organisations allow ICRP to further our programme of work, paving the way for the advancement of the System of Radiological Protection globally. Want to join this growing list of organisations at the forefront of radiological protection? Contact us.



Organisations in Formal Relations

ICRP maintains formal relations with other organisations with an interest in radiological protection through specific agreements, or by granting Special Liaison status to organisations whose work is relevant to ICRP's mandate. Organisations in formal relations with ICRP in 2022 are shown below.



EURAMED
European Alliance for Medical
Radiation Protection Research



**International
Labour
Organization**



Finances

INCOMING RESOURCES

	2019	2020	2021	2022
Contributions Received	1 017 495	761 044	864 963	844 415
Royalties	124 153	189 793	226 562	149 461
Other	0	86 143	111 500	6 622
Total Incoming Resources	1 141 648	1 036 980	1 203 025	1 000 498

RESOURCES EXPENDED

Promotion of Radiological Protection	781 865	315 982	379 066	614 023
Governance Costs	494 158	438 986	482 716	479 443
Other Resources Expended	34 531	4 744	52 326	17 200
Total Resources Expended	1 310 554	759 712	914 108	1 110 665

Net Gains/(Losses) on Investments	0	3 136	16 671	(35 118)
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NET MOVEMENT IN RESOURCES	(168 906)	280 404	305 588	(145 285)
TOTAL FUNDS CARRIED FORWARD	490 407	770 811	1 076 399	931 114

ICRP 2023

6-9 NOVEMBER 2023 • TOKYO, JAPAN



7th International Symposium on the
System of Radiological Protection

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on Radiological Protection



National Institute for Quantum
Science and Technology