



# *Introduction*

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GT CIPR

3 décembre 2024

IRSN, Fontenay-aux-Roses

Charity 1166304 registered with the Charity Commission of England and Wales

**ICRP** INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

**Dominique Laurier**  
**Thierry Schneider**

# Réunion de la MC – Mars 2024



Commission principale CIPR  
Mars 2024 – Fontenay aux Roses



Extension de l'accord de collaboration CIPR-IRSN  
Mars 2024 – Fontenay aux Roses

# Workshop CIPR – Mars 2024



## Program

9h00 Welcome coffee

9h15 Opening and welcome address – Moderator D Leurier  
Jean-Christophe Niel, Werner Rühm and Thierry Schneider

9h30 Session 1 – ICRP – Moderators O German, M Kai

- Organisation and status of ICRP - Christopher Clement (ICRP Scientific Secretary)
- The missions and activities of ICRP - Simon Bouffler (ICRP vice-chair)
- Perspective on the future of Radiological Protection - Werner Rühm (ICRP Chair)

10h15 Coffee break

10h45 Session 2 – Effects and doses – Moderators A Wojcik, S Liu

- The ICRP System in consideration to radiation effects - Dominique Laurier (C1 Chair) with a focus on TG123 "Classification of Harmful Radiation-induced Effects on Human Health for Radiological Protection Purposes" - Ludovic Vaillant (C1)
- The ICRP system for external and internal exposure - François Bochud (C2 Chair) with a focus on TG95 "Internal Dose Coefficients" - François Paquet (C2 Vice-Chair)
- Panel discussion on effects and doses – ANDRA (Elisabeth Leclerc), ASN (Géraldine Pina), CEA (Laurence Lebaron-Jacobs), IRSN (Jean-Christophe Gariel)

12h15 Lunch break

13h00 Session 3 – Application of the RP System – Moderators K Cho, JF Lecomte

- The ICRP System of protection in medical activities - Aurélie Isambert (C3) and Kimberly Applegate (C3 Chair) with a focus on TG126 "Radiological Protection in Human Biomedical Research" - Isabelle Thierry-Chef (C3)
- The application of the ICRP Recommendations - Thierry Schneider (C4 Chair) with a focus on TG127 "Exposure Situations and Categories of Exposure" – Yann Billarand (C4)
- Radiation Protection of the environment, with a focus on TG99 "Reference Animal and Plant (RAP) Monographs" – Christelle Adam-Guillermin (C1) & Jacqueline Garnier-Laplace (C4 Secretary)
- Panel discussion on the application of the RP System – ANCCLI (Yves Lheureux), SFR (Marie-France Bellin), SFRP (Patrick Devrin)

15h00 Concluding remarks

Jean-Christophe Niel, Werner Rühm and Thierry Schneider

## Workshop on the future of Radiological Protection 19 Mars 2024 – Fontenay aux Roses

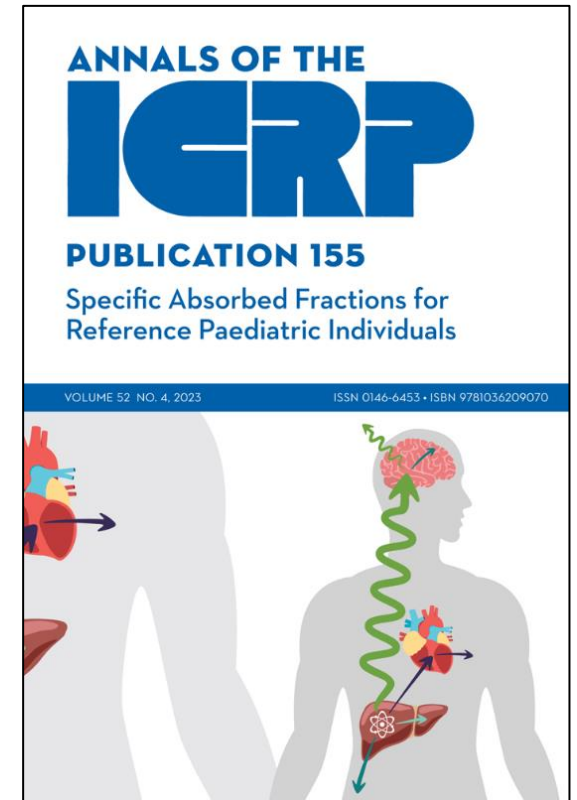
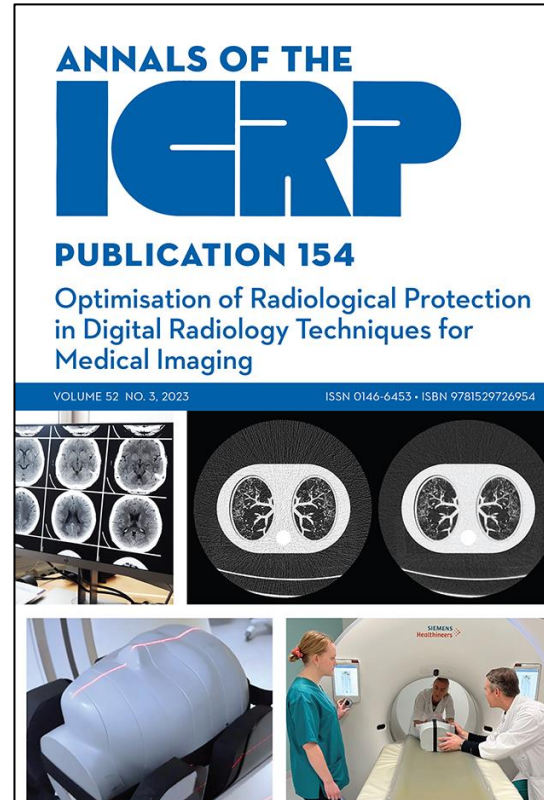
### Publication du résumé des discussions du Workshop dans la revue **Radioprotection**

- En Français (accepté)
- En anglais (en cours de finalisation)

# Publications récentes

**Publication 154 : Optimisation de la protection radiologique pour les techniques de radiologie numérique pour l'imagerie médicale**

**Publication 155 : Fractions absorbées spécifiques pour les individus pédiatriques de référence**





# Objectifs de développement durable

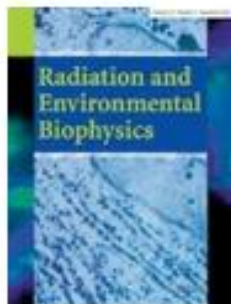
Radiation and Environmental Biophysics (2024) 63:469–482  
<https://doi.org/10.1007/s00411-024-01089-w>

REVIEW



## The system of radiological protection and the UN sustainable development goals

W. Rühm<sup>1</sup> · K. Applegate<sup>2</sup> · F. Bochud<sup>3</sup> · D. Laurier<sup>4</sup> · T. Schneider<sup>5</sup> · S. Bouffler<sup>6</sup> · K. Cho<sup>7</sup> ·  
C. Clement<sup>8</sup> · O. German<sup>8</sup> · G. Hirth<sup>9</sup> · M. Kai<sup>10</sup> · S. Liu<sup>11</sup> · A. Mayall<sup>12</sup> · S. Romanov<sup>13</sup> · A. Wojcik<sup>14,15</sup>



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SDG Talks

SPRINGER NATURE

Springer Nature Sustainable Development Goals Programme

Webinar on January 31 2025, 15.00 CET

# Renforcer l'expertise en Radioprotection

Radiation and Environmental Biophysics (2023) 62:175–180  
<https://doi.org/10.1007/s00411-023-01024-5>

REVIEW



## Vancouver call for action to strengthen expertise in radiological protection worldwide

W. Rühm<sup>1</sup> · K. Cho<sup>2</sup> · C.-M. Larsson<sup>3</sup> · A. Wojcik<sup>4,5</sup> · C. Clement<sup>6</sup> · K. Applegate<sup>7</sup> · F. Bochud<sup>8</sup> · S. Bouffler<sup>9</sup> · D. Cool<sup>6</sup> · G. Hirth<sup>3</sup> · M. Kai<sup>10</sup> · D. Laurier<sup>11</sup> · S. Liu<sup>12</sup> · S. Romanov<sup>13</sup> · T. Schneider<sup>14</sup>

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journal homepage: [www.elsevier.com/locate/ejmp](http://www.elsevier.com/locate/ejmp)



EFOMP's corner

Support for the “Vancouver call for action to strengthen expertise in radiological protection worldwide”: the position of organisations in formal relations with the International Commission on Radiological Protection (ICRP)

Lorenzo Nicola Mazzoni<sup>a,\*</sup>, John Damilakis<sup>b</sup>, Bernard Le Guen<sup>c</sup>, Siamak Haghdoost<sup>d</sup>, Annette Röttger<sup>e</sup>, Teemu Siikonen<sup>f</sup>, Ruth McBurney<sup>g</sup>, Miroslav Pinak<sup>h</sup>, Rodney Croft<sup>i</sup>, Gunde Ziegelberger<sup>j</sup>, Meritxell Martell<sup>k</sup>, Gama Bilbao y Leon<sup>l</sup>, Marcel Lips<sup>m</sup>, Kathryn A. Higley<sup>n</sup>, Efi Koutsouveli<sup>o</sup>, Paddy Gilligan<sup>p</sup>, Borislava Batandjieva-Metcalf<sup>q</sup>, Jing Chen<sup>r</sup>, Michael Lassmann<sup>s</sup>, Jens Kurth<sup>t</sup>, Søren Holm<sup>u</sup>, Michel Kooze<sup>v</sup>, Filip Vanhavere<sup>w</sup>, Oliver Hupe<sup>x</sup>, Jean-Luc Lachaux<sup>y</sup>, Joanne Stewart<sup>z</sup>, Julie Lucey<sup>aa</sup>, Vincent Orengoire<sup>ab</sup>, Thomas Rockwell MacLac<sup>ab</sup>, Laura J. Atwell<sup>ac</sup>, Chuan Wang<sup>ad</sup>, Fieke Delders<sup>ae</sup>, Bernd Lorenz<sup>af</sup>, Tapani Eurajoki<sup>ag</sup>, Susan Molyneux-Hodgson<sup>ah</sup>

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<https://doi.org/10.1016/j.ejmp.2024.103392>

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# Collaboration avec l'UNSCEAR

Signature d'un « Memorandum of Understanding »

Mai 2024

**ICRP**



**UNSCEAR**

United Nations Scientific Committee  
on the Effects of Atomic Radiation

**ICRP**

INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION



# Nihon Hidankyo remporte le prix Nobel de la paix 2024

## News 2024-11-06

- « Nous sommes ravis de féliciter **Nihon Hidankyo**, l'organisation représentant les survivants d'Hiroshima et de Nagasaki, pour l'attribution du Prix Nobel de la Paix 2024 »
- « Nous tenons à exprimer nos sincères félicitations à la Confédération japonaise des organisations de victimes des bombes A et H, l'organisation représentant les survivants des bombes atomiques d'Hiroshima et de Nagasaki, qui recevra le prix Nobel de la paix en 2024. Leurs décennies de plaidoyer inlassable en faveur d'un monde exempt d'armes nucléaires, fondé sur les témoignages bouleversants des survivants de la bombe atomique, ont eu un impact incommensurable sur le monde. Grâce à leurs efforts et à leur expérience, ils continuent d'envoyer un message fort : une telle tragédie ne doit jamais se reproduire. »



# Webinaires, cours et workshops

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety | BfS Federal Office for Radiation Protection | ICRP

**WORKSHOP**

**FIT FOR PURPOSE:  
A GERMAN CONTRIBUTION  
TO THE NEW ICRP  
RECOMMENDATIONS**

**6-8 NOV 2024**

**International  
Training Course  
BASIC INTERNAL  
DOSIMETRY**

ABU DHABI, UAE

14 - 18  
OCTOBER  
2024

FANR | ICRP | EURADOS

EURADOS | ICRP

**JOINT EURADOS-ICRP  
TRAINING COURSE ON  
THE THEORY AND  
PRACTICAL  
APPLICATION OF  
CODES FOR THE  
DETERMINATION OF  
DOSE AFTER INTERNAL  
CONTAMINATION**

**14-18 OCT 2024**



**Challenges of Radiological Protection  
in Research and Society  
referring to Medical Field**

October 3/2024  
Milan, Italy

ICRP, WHO, IAEA, SNR, and other logos are listed on the right side.

WORLD NUCLEAR ASSOCIATION | ICRP

**WEBINAR**

**ENABLING  
SUSTAINABLE  
DEVELOPMENT  
THROUGH THE  
SYSTEM OF  
PROTECTION**

**3 OCT 2024**

**TG 113 WORKSHOP**

**REFERENCE ORGAN  
ABSORBED AND EFFECTIVE  
DOSE COEFFICIENTS FOR  
COMMON RADIOGRAPHIC  
EXAMINATIONS**



**22 JULY 2024**

**TG 98 WORKSHOP**

**RADIOLOGICAL PROTECTION  
IN AREAS CONTAMINATED  
BY PAST ACTIVITIES**



**6 JUNE 2024**

**30 YEARS OF SCIENTIFIC  
ACHIEVEMENTS FOR  
INTERNATIONAL RP**

Summary of the Southern  
Urals Health Studies  
Program

**24-25 MAY 2024**

# Cours Eurados-CIPR en dosimétrie interne

**« Théorie et application pratique des codes pour la détermination de la dose après contamination interne détermination de la dose après contamination interne »**

- Cours de formation conjoint EURADOS-CIPR
- Organisé en coopération avec l'IRSN
- Fontenay aux Roses, France
- 14 - 18 octobre 2024



**EURADOS** **ICRP**

**JOINT EURADOS-ICRP  
TRAINING COURSE ON  
THE THEORY AND  
PRACTICAL  
APPLICATION OF  
CODES FOR THE  
DETERMINATION OF  
DOSE AFTER INTERNAL  
CONTAMINATION**

**14-18 OCT 2024**

# Cours Eurados-CIPR en dosimétrie interne

Objectif : Former des spécialistes de haut niveau en dosimétrie interne

Public : 25 professionnels du monde entier

Formateurs : 8 experts de la CIPR ou de EURADOS

Programme : 5 jours de cours théoriques, démonstrations et exercices, couvrant toutes les étapes de la dosimétrie interne et permettant le calcul des coefficients de dose

Prochaine session : à définir





# Réunion de la MC – Iwaki - Nov 2024

Joint Workshop of F-REI and ICRP  
**Recovery of Fukushima and Radiological Protection**

— Organisers —  
 Fukushima Institute for Research, Education and Innovation (F-REI)  
 International Commission on Radiological Protection (ICRP)

— Supported by —  
 Reconstruction Agency  
 Ministry of Economy, Trade and Industry

**Monday, November 25th, 2024**  
 13:15–16:20

**Place: Iwaki Washington Hotel (Azalea B&C)**  
 (1 banchi, 1 chome, Taira Aza, Iwaki City, Fukushima, Japan)

13:15 ♦ Opening address  
 F-REI President, **Koetsu Yamazaki**  
 ICRP chair, **Werner Rühm**

**Session 1**

13:25 ♦ F-REI : F-REI's endeavor to the recovery of Fukushima (tentative)  
**Yuji Owada, Executive Director**

13:55 ♦ ICRP : Current discussion on revised RP system (tentative),  
 Overview **Christopher Clement, Scientific Secretary**  
 C4 issues **Thierry Schneider, Committee 4 Chair**


14:45 Coffee break

**Session 2**

15:15 ♦ General Discussion

16:15 ♦ Closing address, Co-chair

Contact: Fukushima Institute for Research, Education and Innovation (F-REI)  
 6-1 Yazawa-machi, Gongendo, Namie Town, Futaba County, Fukushima, Japan  
 E-mail: RPworkshop2024@f-rei.go.jp <https://www.f-rei.go.jp>




MC meeting - Nov 2024 – Iwaki



MC meeting - Nov 2024 – mesures **OpenRadiation**



# Réunion de la MC – Iwaki - Nov 2024

- **Fonctionnement interne (secrétariat, publications, règles, budget, déclarations des conflits d'intérêt...)**
- **Bilan des travaux des 4 comités**
- **Avancement des TGs et des WPs**
- **Planification de nouveaux TGs et préparation des nouvelles recommandations générales**
- **Evénements et réunions**

# Publications à venir

- **Publication 156 Paediatric Mesh-type Reference Computational Phantoms**
- **Publication 157 Ethics in Radiological Protection for Patients in Diagnosis and Treatment**
- **Publication 158 Dose Coefficients for Intakes of Radionuclides by Members of the Public: Part 1**
  
- **TG97 Radiological Protection in Surface and Near-Surface Disposal of Solid Radioactive Waste**
- **TG108 Practical Aspects in Optimisation of Radiological Protection in Digital Radiography, Fluoroscopy, and CT**
- **TG117 Radiological Protection in PET and PET/CT**

# Rapports adoptés pour publication

- **Task Group 95 draft report ‘Dose coefficients for intakes of radionuclides by members of the public: Part 2’**
- **Task Group 98 draft report ‘Radiological Protection in Areas Contaminated by Past Activities’**
- **Task Group 113 draft report ‘Reference Organ and Effective Dose Coefficients for Common Radiographic Examinations’**

# Rapports acceptés pour consultation publique

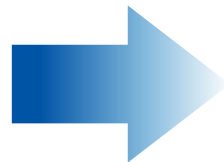
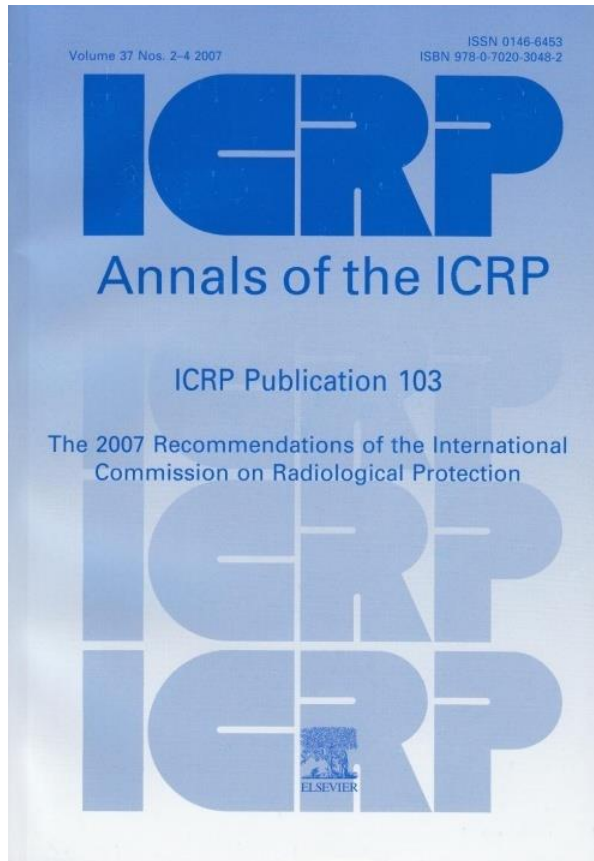
- **Task Group 36 draft report 'Radiation Dose to Patients in Diagnostic Nuclear Medicine'**
- **Task Group 116 draft report 'Radiological Protection Aspects of Imaging in Radiotherapy'**



# Rapports en cours de finalisation

- **Task Group 91 draft report ‘Scientific Evidence Relevant to the Assessment of Solid Cancer Radiation Risk at Low-Dose and Low-Dose-Rate’**
- **Task Group 99 draft report ‘Reference Animal and Plant (RAP) Monographs’- New title: ‘Environmental Benchmark Criteria: Broadening the Concept of Reference Animals and Plants and Related Derived Consideration Reference Levels’**
- **Task Group 103 draft report ‘Pregnant-female Mesh-type Reference Computational Phantoms’**
- **Task Group 111 draft report ‘Factors Governing the Individual Response of Humans to Ionising Radiation’**

# Revue du système de RP : la prochaine décennie



- Constitue la base des réglementations actuelles en matière de protection radiologique dans le monde entier
- La CIPR a entamé un examen et une révision afin de tenir compte des nouvelles données scientifiques potentielles et des changements sociétaux
- Identifier les questions fondamentales ouvertes (« Building blocks ») : travail essentiel requis pour les prochaines recommandations générales

# Initiation du processus de revue du système de RP

## 1. Keeping the ICRP recommendations fit for purpose

Clement et al 2021 JRP, [www.doi.org/10.1088/1361-6498/ac1611](http://www.doi.org/10.1088/1361-6498/ac1611)

## 2. Areas of research to support the system of radiological protection

Laurier et al 2021 REB, [www.doi.org/10.1007/s00411-021-00947-1](http://www.doi.org/10.1007/s00411-021-00947-1)

## 3. Summary of the 2021 ICRP workshop on the future of radiological protection

Rühm et al 2022 JRP, [www.doi.org/10.1088/1361-6498/ac670e](http://www.doi.org/10.1088/1361-6498/ac670e)

## 4. ... A focus on research priorities - feedback from the international community

Rühm et al 2023 JRP, [www.doi.org/10.1088/1361-6498/acf6ca](http://www.doi.org/10.1088/1361-6498/acf6ca)

Réflexions de la CIPR et invitation à contribuer



Synthèse des réactions de la communauté



# Revue et revision du système de RP

Identifier les sujets majeurs (*'building blocks'*) à reviser

Developper les *building blocks* grace aux *Task Groups*

Preparer les prochaines recommandations générales en se basant sur les *building blocks*



Environ une décennie



# 30 Task Groups en cours

- TG36 Radiopharmaceutical Doses**
- TG91 Low-dose and Low-dose Rate Exposure**
- TG95 Internal Dose Coefficients**
- TG96 Computational Phantoms and Radiation Transport**
- TG97 Surface and Near Surface Disposal**
- TG98 Contaminated Sites**
- TG99 Environmental Benchmark Criteria**
- TG103 Mesh-type Computational Phantoms**
- TG105 The Environment in the System of RP**
- TG106 Mobile High Activity Sources**
- TG108 Optimisation in Medical Imaging**
- TG109 Ethics in RP in Medicine**
- TG110 Veterinary Practice**
- TG111 Individual Response to Radiation**
- TG112 Emergency Dosimetry**
- TG113 Dose Coefficients for X-ray Imaging**
- TG114 Reasonableness and Tolerability**
- TG115 Risk and Dose for Astronauts**
- TG116 Imaging for Radiotherapy**
- TG117 PET and PET/CT**
- TG118 RBE, Q, and  $w_R$**
- TG119 Diseases of the Circulatory System**
- TG120 Radiation Emergencies and Malicious Events**
- TG121 Offspring and Next Generations**
- TG122 Detriment Calculation for Cancer**
- TG123 Classification Radiation-induced Effects**
- TG124 The Principle of Justification**
- TG125 Ecosystem Services**
- TG126 Human Biomedical Research**
- TG127 Exposure Situations and Categories of Exposure**
- TG128 Individualisation and Stratification in RP**

# ... dont 21 en support aux prochaines recommandations générales

- TG36 Radiopharmaceutical Doses
- TG91 Low-dose and Low-dose Rate Exposure**
- TG95 Internal Dose Coefficients**
- TG96 Computational Phantoms and Radiation Transport**
- TG97 Surface and Near Surface Disposal
- TG98 Contaminated Sites
- TG99 Environmental Benchmark Criteria**
- TG103 Mesh-type Computational Phantoms**
- TG105 The Environment in the System of RP**
- TG106 Mobile High Activity Sources
- TG108 Optimisation in Medical Imaging
- TG109 Ethics in RP in Medicine**
- TG110 Veterinary Practice**
- TG111 Individual Response to Radiation**
- TG112 Emergency Dosimetry
- TG113 Dose Coefficients for X-ray Imaging
- TG114 Reasonableness and Tolerability**
- TG115 Risk and Dose for Astronauts**
- TG116 Imaging for Radiotherapy
- TG117 PET and PET/CT
- TG118 RBE, Q, and  $w_R$**
- TG119 Diseases of the Circulatory System**
- TG120 Radiation Emergencies and Malicious Events
- TG121 Offspring and Next Generations**
- TG122 Detriment Calculation for Cancer**
- TG123 Classification Radiation-induced Effects**
- TG124 The Principle of Justification**
- TG125 Ecosystem Services**
- TG126 Human Biomedical Research**
- TG127 Exposure Situations and Categories of Exposure**
- TG128 Individualisation and Stratification in RP**

# Un nouveau TG adopté la semaine dernière

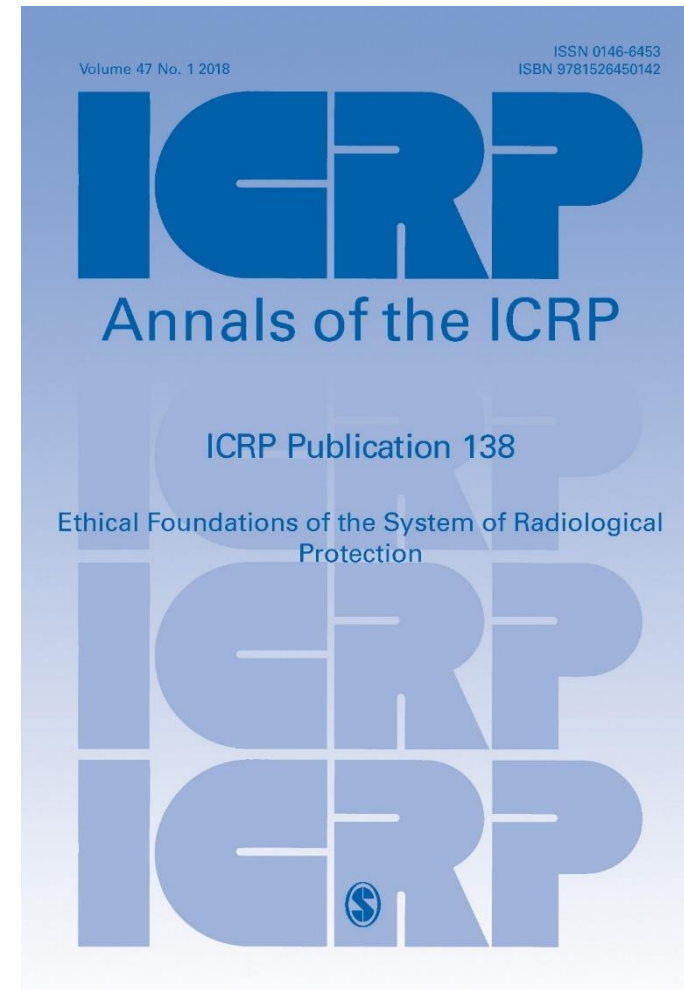
## TG 129 – L'éthique dans la pratique de la radioprotection

**Président : Friedo Zölzer**

**Vice-présidente : Nicole Martinez**

### **Objectif :**

- Identifier les enjeux de la mise en œuvre des valeurs éthiques dans différents domaines de la RP
- Travaux en lien avec l'IRPA et d'autres organisations internationales



# ... et une liste de sujets additionnels potentiels

## A envisager avant les prochaines recommandations

- Dose to pregnant, fetus, breast feeding in nuc med
- RP in space
- The principle of optimisation of protection
- Protection of other non-human biota
- Revised detriment & its application
- Dosimetry system consolidation
- Justification in medicine
- Dose limits / protection of the individual
- RP in medicine (new P105)
- Compendium of dose coefficients
- Dose/risk coeffs for molecular radiotherapy
- Dose limits / protection of the individual
- Non-cancer effects beyond cardiovascular

## A envisager après les prochaines recommandations

- Cocktail effects
- AOP for RP
- Online tools for customised assessments
- New detriment for hereditary effects

# Webinaires et workshops à venir

JOINT FANR-ICRP WORKSHOP

## ARTIFICIAL INTELLIGENCE IN RADIOLOGICAL PROTECTION

28-30 JAN 2025 | ABU DHABI, UAE

**ICRP**  
FANR   
الهيئة الاتحادية للرقابة النووية  
Federal Authority for Nuclear Regulation

## ICRP Workshop

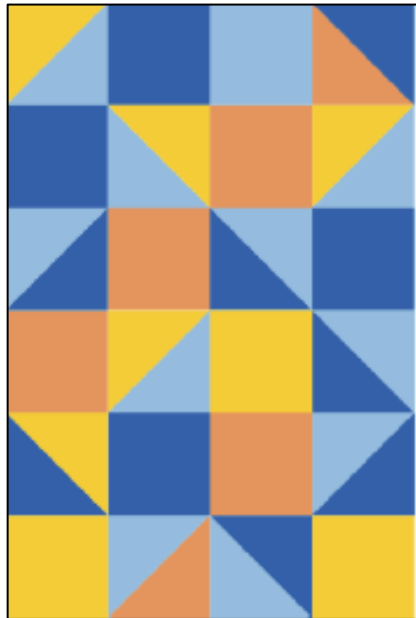
Shaping the Future of Radiological Protection: Engaging the Next Generation

1-2 April 2025,

12:00-14:30 UTC both days.



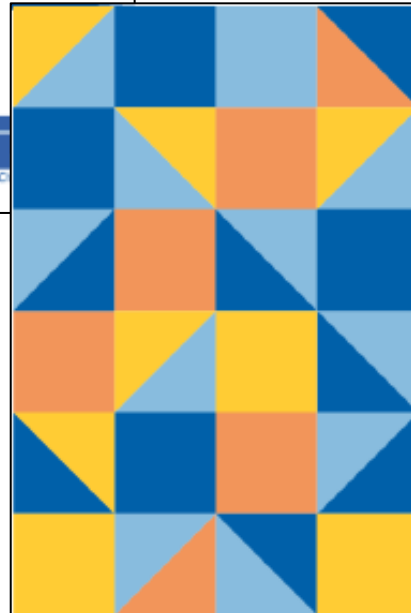
# Postes à pourvoir au Secrétariat CIPR



**We're seeking individuals  
for the role of Assistant  
Scientific Secretary!**

**DEADLINE:** 30 November 2024

Learn more at [ICRP.org](https://www.icrp.org)



**We're seeking individuals  
for the role of Technical  
Secretary!**

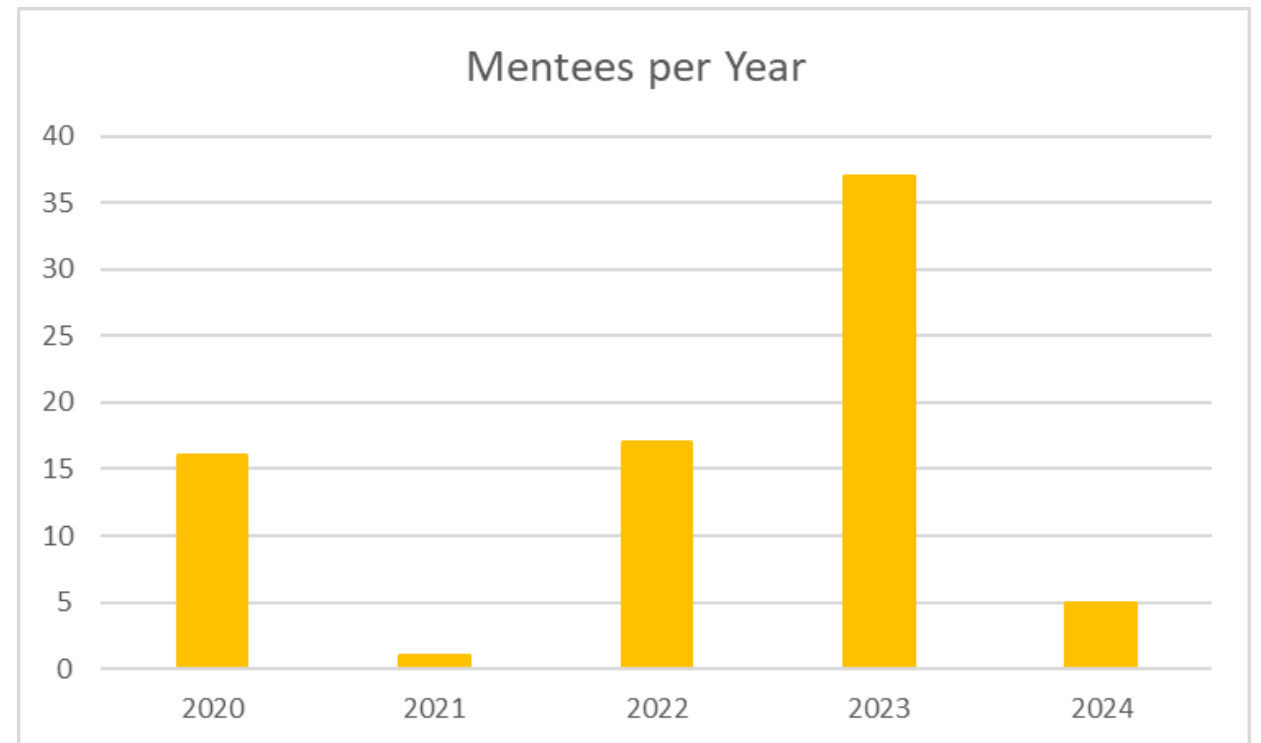
**DEADLINE:** 31 December 2024

Learn more at [ICRP.org](https://www.icrp.org)

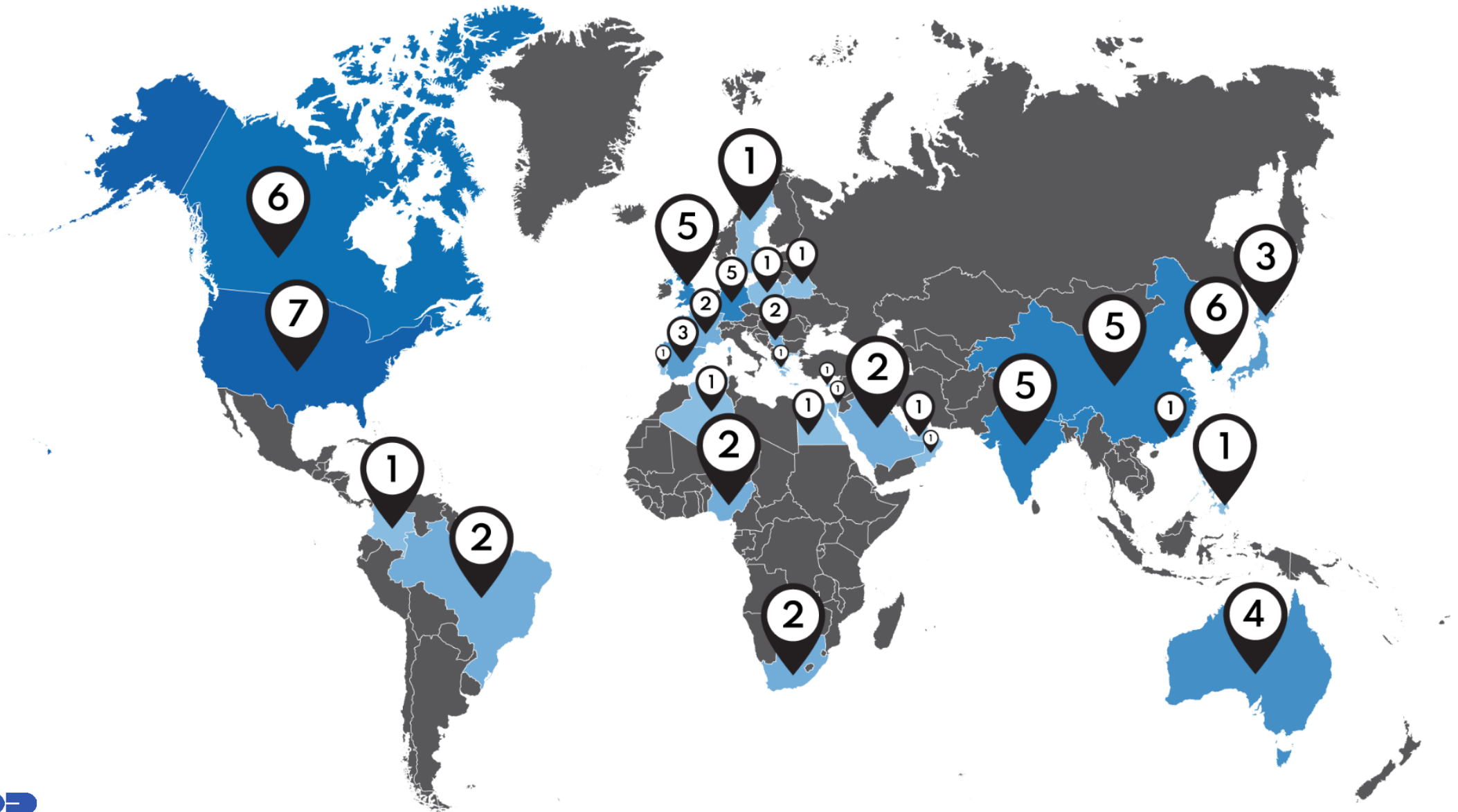


# Programme de mentorat de la CIPR

- Établi en 2019
- 76 mentorés au total, dont 65 en cours au sein de 25 TGs
- Appels à candidatures en ligne
- Taches diverses :
  - analyse bibliographique
  - gestion et organisation de données
  - calcul et simulation
  - réalisation d'enquête
  - contribution à la rédaction d'articles



# Programme de mentorat de la CIPR



# Election des membres CIPR

Coming Soon!

## NOMINATIONS FOR THE 2025-2029 TERM TO OPEN IN NOVEMBER

ICRP is excited to announce that the nomination window for its 2025-2029 (1 July 2025 - 30 June 2029) term will open in mid-to-late November 2024. During this period, nominees will have the opportunity to be considered for elected positions on the Main Commission and four standing Committees.



# Symposium CIPR





# Participez aux activités de la CIPR



International Commission  
on Radiological Protection

- Suivez-nous sur le site web et sur les médias sociaux
- Participez à nos webinaires en ligne
- Participez aux symposiums et événements
- Commentez les projets de consultation publique
- Participez au programme de mentorat
- Postulez aux groupes de travail de la CIPR
- Faites un don et soutenez la communauté de la CIPR

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# Prochaine réunion du GT CIPR



**Jeudi 12 Juin 2025**

14h00 – 17h00

en visio (TEAMS)

**GT CIPR: <https://www.irsn.fr/groupe-travail-sur-commission-internationale-protection-radiologique-gt-cipr>**

**ICRP: <https://www.icrp.org>**

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