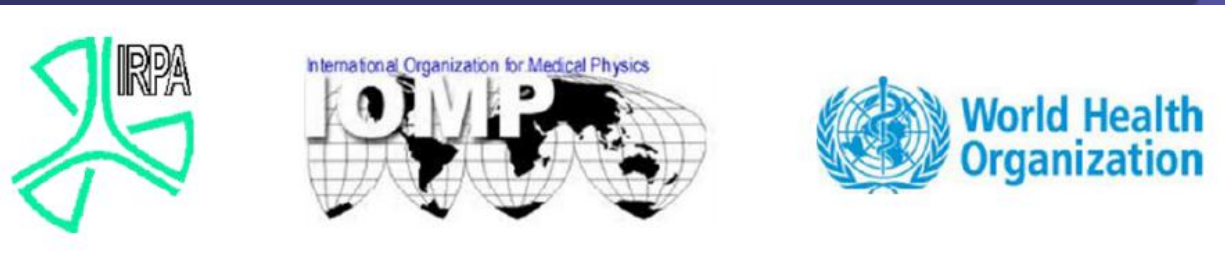




*IRPA IOMP WHO Workshop
“Radiation Protection Culture in Medicine”
Geneva, 30.11. – 02.11.2015*

Setting the scene
Background
of the Radiation Protection Culture initiative

Bernard Le Guen, IRPA Executive Officer





Radiation Protection Culture

Significant development in the use of ionising radiation (e.g. in medicine and nuclear industry revival) throughout the world

Retirement of the generation who developed the radiation protection principles and methods that are applied today

Necessity to maintain a high degree of competence and to continue making progress in radiation protection

Use of radiation sources in new areas, by new companies or countries - establishment of an appropriate radiation protection infrastructure.

New epidemiological studies on children sensitivity to ionising radiation and CT is going to a major source of radiation exposure to population : **Need to educate medical professionals and parents about justification but also *image acquisition protocols / alternative exams that can reduce dose for children***



Radiation Protection Culture

Targets:

- To give visibility to the fundamentals of RP (science and values)
- To promote radiation risk awareness
- To promote shared responsibility among practitioners, operators, management and regulators
- To maintain the RP heritage
- To facilitate its transmission
- To improve the quality and effectiveness of RP
- To contribute to the general safety



The Initial Proposal

- ❑ At the IRPA12 Congress in Buenos Aires in October 2008, the French Society for Radiation Protection (SFRP) proposed to launch an IRPA initiative for enhancing Radiation Protection (RP) culture among the RP professionals worldwide.
- ❑ This proposal was very favourably received by the participating delegates and the IRPA Executive Council decided to actively support this initiative.
- ❑ Subsequently,
 - ❑ the World Health Organisation (WHO),
 - ❑ the European ALARA Network (EAN),
 - ❑ the Health Physics Society (HPS),
 - ❑ the American Association of Physicists in Medicine (AAPM)
 - ❑ the Image Gently Alliance

also expressed their interest and support and participated to this initiative



Enhancing RP Culture is a process

4 IRPA workshops organized in Europe, Asia and the United States

the goal was to design a first IRPA's Guiding Principles and to incorporate approaches from different countries and regions of the world, and from different sectors:

World Health Organization

INTERNATIONAL RADIATION PROTECTION ASSOCIATION

1st IRPA Workshop on Radiation Protection Culture
organised by **SFRP** International Relation Commission
Monday 14 and Tuesday 15 December 2009
UNION INTERNATIONALE DES CHEMINS DE FER
16, rue Jean Rey
75015 PARIS

U.S. NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

United States Department of Health & Human Services
Leading America to Better Health, Safety and Well-Being

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FOUNDED 1956

Jornada de Cultura de la Protección Radiológica
Día 15 de junio de 2.009
Cátedra Rafael Marinho del Instituto de Ingeniería de España, Madrid

El objeto de esta jornada es presentar los manifestaciones concretas de la cultura organizativa y su influencia en los usuarios y en la protección radiológica de la instalación y dar a conocer las competencias técnicas y papeles organizativos necesarios para mejorar los compromisos adquiridos en organizaciones que requieren niveles elevados de fiabilidad y seguridad.

La jornada está dirigida a profesionales de la protección radiológica con responsabilidades sobre la instalación y los equipos que la forman.

CULTURA ORGANIZATIVA, CULTURA DE SEGURIDAD Y DE LA PROTECCIÓN RADIOLÓGICA. INTEGRACIÓN DE LA CULTURA MODELO DE GESTIÓN, EVALUACIONES PROACTIVAS DE LA CULTURA, TÉCNICAS DE DIAGNÓSTICO, MEJORA EN LA CULTURA DE LA PROTECCIÓN RADIOLÓGICA. INFLUENCIA DE LOS DIRECTIVOS Y DE LOS DESTAOS EN EL DESARROLLO DE LA CULTURA ORGANIZATIVA, CULTURA DE SEGURIDAD Y DE LA PROTECCIÓN RADIOLÓGICA.

con la colaboración de:

COMILLAS
UNIVERSIDAD NACIONAL DE INGENIERÍA DE ESPAÑA

tecniform, s.a.



Sponsoring this topic all these years has been a unique opportunity



Radiation Protection Culture

RP Culture Project began at IRPA12 in 2008

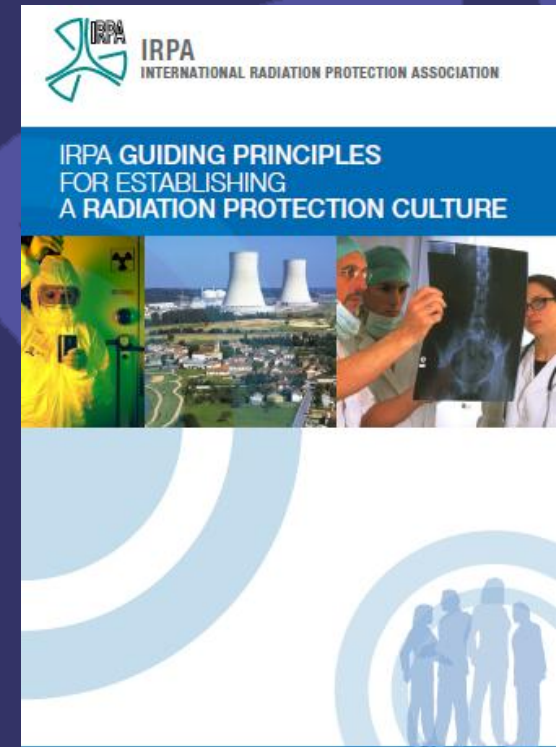
Between 2008-2012 : 4 IRPA workshops

The Glasgow Congress in 2012 was yet another opportunity to organize a session and collect opinions before to finalize the initial draft.

Each Associate Society then had a chance to react and respond to the 3 successive drafts that were posted on IRPA website

The Guiding principle was published in 2014

And officially presented at The European IRPA regional congress here in Geneva



IRPA decided to explore the possibilities of developing more practical guidance but not alone , in collaboration with other organizations and institutions

Bonn Call-for-Action



BONN CALL FOR ACTION

10 Actions to Improve Radiation Protection
in Medicine in the Next Decade

The “International Conference on Radiation Protection in Medicine: Setting the Scene for the Next Decade” , held in Bonn in Dec 2012 with the specific purpose of identifying and addressing issues arising in RP in medicine.

- 536 participants and observers from 77 countries and 16 organizations

The aims of the Bonn Call-for-Action are to

- a) strengthen the radiation protection of patients and health workers overall;
- b) attain the highest benefit with the least possible risk to all patients by the safe and appropriate use of ionizing radiation in medicine;
- c) aid the full integration of radiation protection into health care systems;
- d) help improve the benefit/risk-dialogue with patients and the public;
- e) enhance the safety and quality of radiological procedures in medicine



Why an new initiative on Radiation Protection in Medicine

The dimensions of culture and ethics in the implementation of the radiation protection principles (justification, optimization, limitation) are remarkably visible in the medical area.


- The ALARA principle, which stands for “as low as reasonably achievable.” must be incorporated into all imaging procedures and technologies, and is mandated by nearly all regulatory bodies and licensing agencies,
 - Medical professionals must be informed about principles of radiation protection and must know how to apply them in day-to-day practice
 - any patient must be informed and must have confidence when is going to get radiation dose
- IRPA proposed to WHO and IOMP to create a common initiative during the IRPA regional congress in Kuala Lumpur in Malaysia

•**We are stronger all together !**






September 2014 : A first round table IRPA IOMP WHO in Rabat



AMR
Moroccan Radiation Protection Association
www.cnesten.org.ma/amr/



AFRIRPA04



AMPM
Moroccan Association of Medical Physics
www.asso-ampm.com

Organize

The Fourth Regional African Congress of International Radiation Protection Association

Main Theme : Strengthening of radiation protection infrastructures in support to the health sector in Africa

First announcement



AFRIRPA 04
19-24 May 2014
Rabat - Morocco

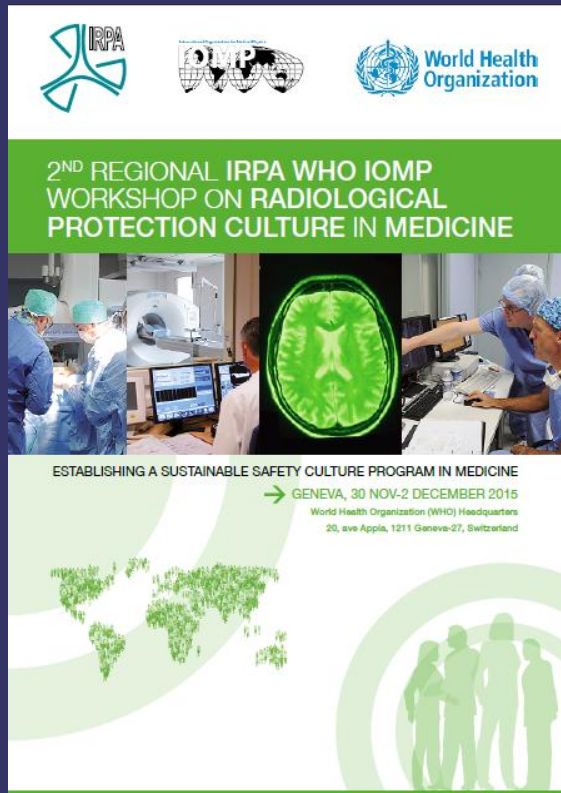
- A first common round table during the 4th IRPA African regional Congress
- Official announcement of the IRPA IOMP WHO initiative with the first workshop in Buenos Aires in (Argentina)

Strengthening of radiation protection infrastructures in support to the health sector in Africa





How to establish a Radiation Protection Culture in Medicine ?



The purpose is to capture the opinion and standpoint of RP culture in medicine and to identify ways to improve it in collaboration with IOMP and WHO:

1st IRPA/IOMP/WHO workshop held in BA in April 2015 (IRPA)

2nd Workshop today , at WHO headquarters

And 2 other workshops are planned

- Cape town in 2016 for Africa
- Asia in 2017





Enhancing RP Culture is a Process

„Radiation Protection Culture is a learned way of life.“

- ✓ Additional consultations are needed and necessary to achieve some consensus agreement on the general approach and methodology and to design the new IRPA IOMP WHO document.
- ✓ IRPA is committed to work in collaboration toward achieving Guidelines that incorporates approaches from different countries and regions of the world, from medicine, patients, manufacturers and regulators.
- ✓ Each Workshop will have a specific scope





The 1st IRPA/IOMP/WHO workshop on RP Culture in Medicine in Buenos Aires

68 people attended
the workshop

Topics of discussion:

1. the key components of radiation protection culture
2. the current perspective on RP culture in medicine in South American countries
3. current priorities for establishing a strong culture in medicine

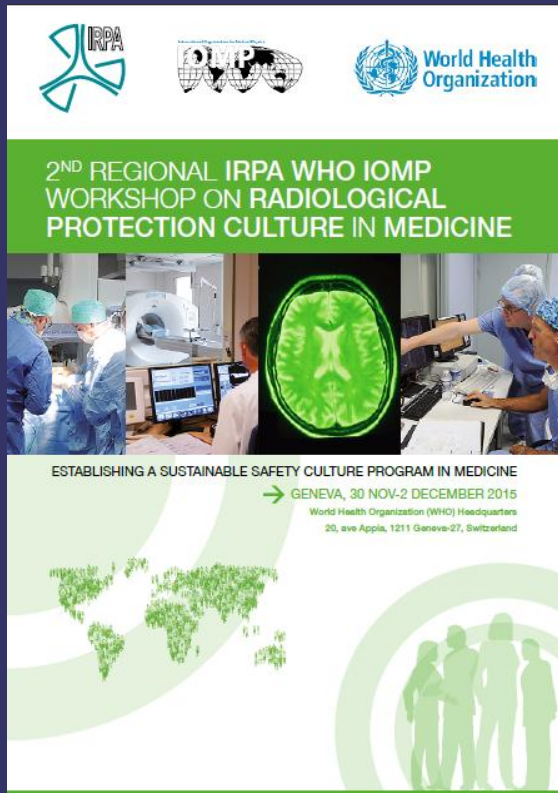


First IRPA IOMP WHO workshop
Buenos Aires -11/04/2015





The 2nd IRPA/IOMP/WHO workshop on RP Culture in Medicine in Geneva



1. Key elements of a radiation protection culture in medicine (RPCM)
2. Priorities for establishing and maintaining a strong RPCM
3. How to engage patients in RPCM improvement?
4. Improving RPCM in Europe: SWOT analysis (Strengths, Weaknesses, Opportunities, Threats)
5. Tools and indicators for assessing RP culture in QA program in medicine





IRPA

INTERNATIONAL RADIATION PROTECTION ASSOCIATION

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<http://www.irpa.net>

RP Culture

Topical Areas

Public Understanding

Ethics

Stakeholder Engagement

Education and Training

RP Culture

2015 Meeting

2013 Meeting

Earlier workshops

Additional documents

RP Certification and Qualification

- 2015 Meeting
- 2013 Meeting
- Earlier Workshop
- Additional Documents

2nd Regional IRPA-IC

2015 Meeting

In 2015 IRPA launched a new initiative in conjunction with the World Health Organization and the International Organization of Medical Physics (IOMP) during a meeting in Buenos Aires. An abstract of the meeting and presentations given at the meeting are available here for reading.

[Abstract of the meeting](#)

[What the new Basic Safety Standards say about radiation safety culture \(Maria del Rosario Perez\)](#)

[Global views and actions \(Maria del Rosario Perez\)](#)

[Radiation protection culture in medicine \(Bernard LeGuen\)](#)

[Radiation protection culture and the IOMP \(Medan Rehani\)](#)

[Industry opinion on improvements in radiation protection culture in medicine \(Richard A. Frank\)](#)

[The patient's voice \(Jorge Cesar Martinez\)](#)

[Current efforts and initiatives to raise awareness of safety culture in Latin America \(Simone Kodlulovich Renha\)](#)

[Radioproteccion pediátrica](#)

[Cultura de seguridad en las organizaciones instalaciones y actividades con fuentes de radiacion ionizante](#)



The International RP Community

IRPA, IOMP and WHO invite you to work with us to address radiation protection challenges world wide.

IRPA will provide you a platform for wider discussion and enhancing awareness through our International Congress in Cape Town in 2016 and will propose a plenary session around RP culture on Thursday 12 May afternoon:

**14th IRPA International Congress
Cape Town, 9 – 13 May 2016**

IRPA's 50th Anniversary!

