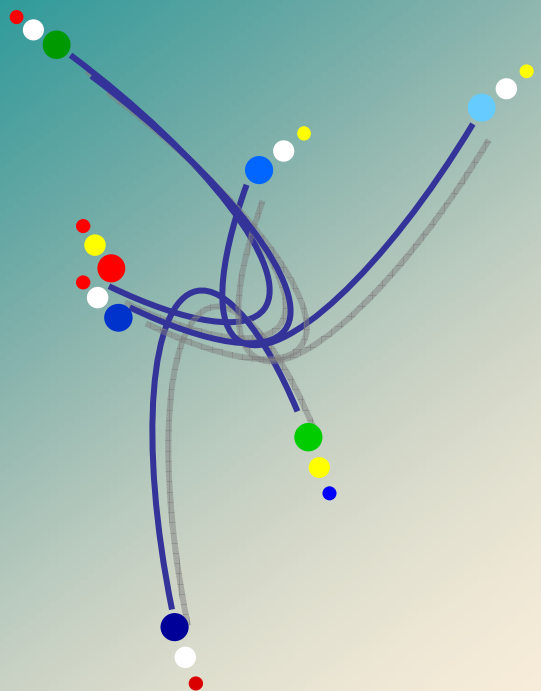




FORO

Foro Iberoamericano de Organismos Reguladores Radiológicos y Nucleares

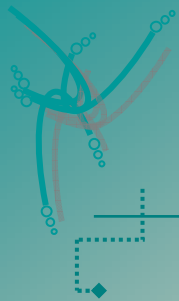


The Ibero-American Forum of Radiation and Nuclear Safety Regulatory Agencies

Pedro Ortiz Lopez, PhD
ANSN Round Table
54th General Conference September 2010



Foro Iberoamericano de Organismos Reguladores Radiológicos y Nucleares



About FORO

what is it?

an Association of Iberoamerican Radiological & Nuclear Regulatory Agencies
created in 1997.

its aim?

to promote **radiation and nuclear safety and security** at the highest level in the region

www.foroiberam.org



FORO's Members

Argentina



Autoridad **R**egulatoria **N**uclear

Brazil



Comissão **N**acional de **E**nergia **N**uclear

Chile



Comisión **C**hilena de **E**nergía **N**uclear

Cuba



Centro **N**acional de **S**eguridad **N**uclear

Spain



Consejo de **S**eguridad **N**uclear

Mexico



Comisión **N**ac. de **S**eguridad **N**uclear y **S**alvaguardias

Perú



Instituto **P**eruano de **E**nergía **N**uclear

Uruguay



Autoridad **R**eguladora **N**acional en **R**adioprotección

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Activities

main activity

Plenary Meetings

To establish the Vision of the FORO

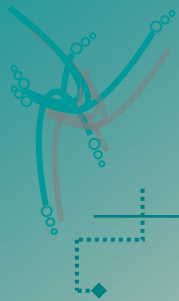
technical activities

A technical programme

focused on main areas is coordinated and supervised by the Executive Technical Committee (Steering Committee)

institutional activities

Relationship with other regional and international institutions sharing similar objectives



Technical Projects

Nuclear Safety

Regulatory Practices on Ageing of Nuclear Power Plants and Licensing Life Extension

Risk analysis

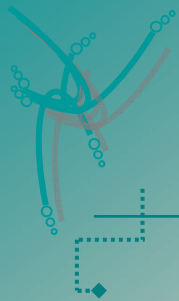
Application of Probabilistic Safety Assessment and Risk Matrix in Radiotherapy

Continuous Improvement

of the Regulatory Framework of the Control of Medical Exposure (self-assessment)

Radioactivity in Scrap Metal

Control of Radioactive Sources in Metal Recycling Industry



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Radioactivity in Scrap Metal

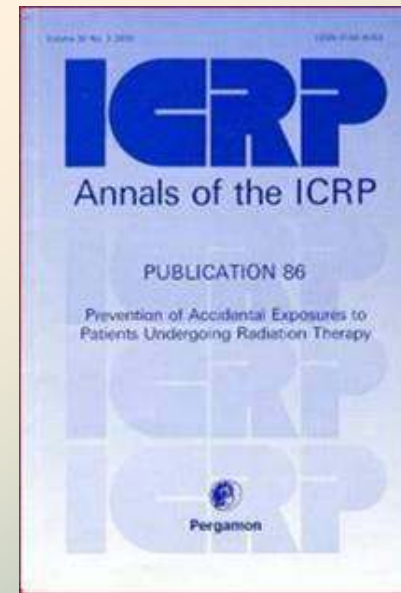
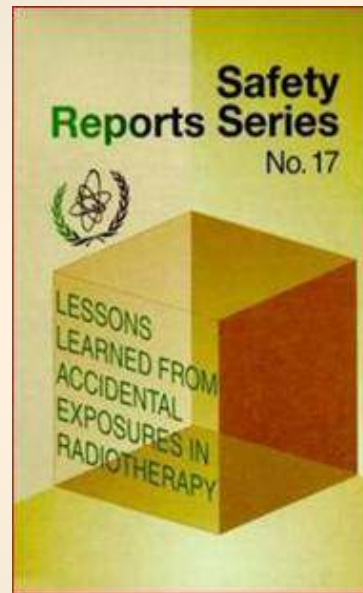
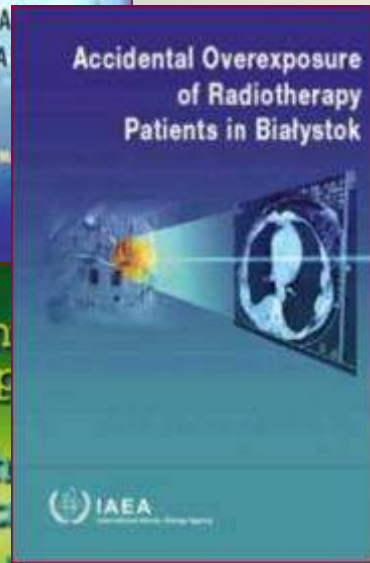
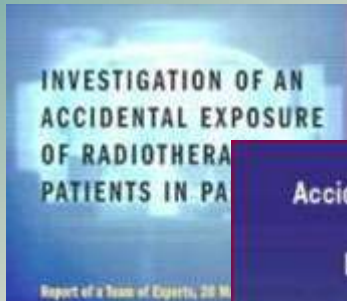
Control of Radioactive Sources in Metal Recycling Industry



Background

- River Side USA 1974-76: overexposure of **426 patients. At least 88 with severe complications**
- Exeter UK: 1982-91: Under dosage of 1045 patients, of which **492 died because of the under dosage**
- Zaragoza, España, 1990: Overexposure of 27 patients, of which **17 died because of it**
- San José, Costa Rica, 1996: **115 patients**
- Panamá, 2000: **28 patients**

Lessons from accidental exposures



**They have been useful in
prevention**

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The unknown or unreported

- What about possible unreported events?
- What about other types of potential events, which have not happened yet?
- **Do we need to wait until they occur, to learn the lesson?**
- ¿What should be done about increasing equipment complexity and thus ever larger lists of double checks and verifications?
- **Which are the proactive methods to anticipate what else can go wrong?**



Work done by the FORO

- Probabilistic Safety Assessment to accelerators
- Risk Matrix Approach
- The Risk Matrix approach has been applied now in 12 Member States (in cooperation with IAEA-TC)
- Vulnerabilities have been identified and a programme of improvement is ongoing



More information

www.foroiberam.org

info@foroiberam.org

Thank you very much.