



FORO



Foro Iberoamericano de Organismos Reguladores
Radiológicos y Nucleares



Ibero-American Forum of Radiological and Nuclear Regulatory Agencies

Example of Sustainable Regional Cooperation

3rd International Regulators Conference on Nuclear Security Marrakech, 1 – October 2019

Alfredo de los Reyes

Chairman of the FORO Steering Committee

About FORO

FORO

- Association of **Nuclear and Radiological regulators** with the aim of promoting Radiation Protection, Nuclear Safety and Security at the highest level in the region.

Vision

- Fruitful environment for strengthening safety through exchange of information and practices and a **robust technical and scientific program** in matters of mutual interest.

Mission

- Promoting of safety, **enhancing the harmonization** of regulatory practices and cooperating with national, regional and international organizations (**IAEA, WHO, ICRP, IRPA, ...**) and associations with similar objectives.

Our language: Spanish

FORO Members



ARGENTINA		Autoridad Regulatoria Nuclear
BRASIL		Comissão Nacional de Energia Nuclear
CHILE		Comisión Chilena de Energía Nuclear
COLOMBIA		Ministerio de Minas y Energía
CUBA		Dirección de Seguridad Nuclear
SPAIN		Consejo de Seguridad Nuclear
MEXICO		Comisión Nacional de Seguridad Nuclear y Salvaguardias
PERÚ		Instituto Peruano de Energía Nuclear
PARAGUAY		Autoridad Reguladora Radiológica y Nuclear de Paraguay
URUGUAY		Autoridad Reguladora Nacional en Radioprotección

FORO Areas of Work & Technical Programme

- **Radiation protection of workers**
 - **Radiation protection of patients**
 - Radiation protection of the public and the environment
 - **Emergency preparedness and response**
 - Accident and Incident Management
 - **Control of radiation sources**
 - Decommissioning and closure of Installations
 - **Radioactive waste management**
 - **Nuclear safety**
 - **Transport of radioactive material**
 - **Knowledge management**
 - Human and organizational factors
 - **Physical Protection**
 - **Nuclear Security**
 - **Legal issues**
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FORO Projects (1)



Issue Identification from Areas of Interest
National regulatory or IAEA's proposal

Identification of experts
National regulatory and IAEA's experts

Draft of Project
(objectives, time schedules, costs...)

Technical revision
Steering Committee (Senior Experts), *CTE*

Approval
Board of Chairpersons, *Plenario*

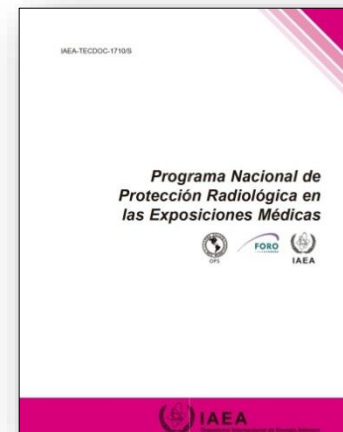
Numbers

- Since 2003, **13 projects have been completed**, in nuclear safety, radiation protection, source control, emergencies, safety culture and capacity building (more information in: www.foroiberam.org)
- Nowadays **7 projects under development**
- **5 joint publications with IAEA** (one of them with WHO as well)
- Participation of **more than 100 experts** from the 10 member organisations
- **1 M€** spent to finance the technical program so far
- **3 Newsletters** (Spanish, Portuguese and English)



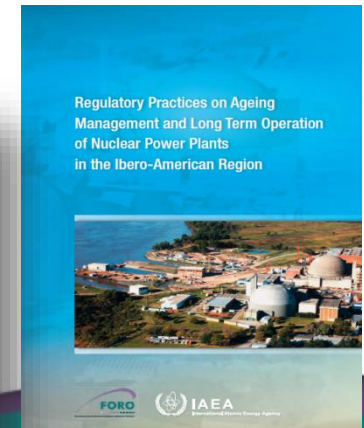
Thirteen completed projects

- ✓ Prevention of **accidental exposures in radiation therapy** through the application of probabilistic risk assessment (PSA + Matrix + **SEVRRRA tool**)
- ✓ Collaborative approaches between regulatory and health authorities for **regulatory control of medical exposures**
- ✓ Assessment and inspection of **NPPs' ageing management and long-term operation**
- ✓ Control of **inadvertent radioactive material** from scrap metal in recycling industries
- ✓ Harmonization of regulatory criteria in **emergency preparedness and response**



Thirteen completed projects

- ✓ Assessment of **stress tests performed to NPPs** in the FORO countries
- ✓ Licensing of **cyclotrons for the production of radionuclides** for P.E.T.
- ✓ **Capacity building for regulatory staff** for the safety of nuclear reactors.
- ✓ **Safety culture** on practices involving the use of ionizing radiation
- ✓ Risk assessment methodology for **industrial practices**
- ✓ **Clearance criteria** in radioactive installations.



Seven projects under development

- ✓ **Capacity building for regulatory staff** for medical and industrial installations.
- ✓ **SEVVRA Tool** for advanced medical applications (Intensity Modulated Radiation Therapy and Diagnostic Nuclear Medicine).
- ✓ Use of **Safety Culture** results for a **Industrial Gammagraphy** facility
- ✓ Inspections manual and ageing management procedures for **Research Reactors**
- ✓ Licensing of **Radiopharmacy Centralised Systems**
- ✓ Inspection of non regulated **transport packages**
- ✓ **NPPs Operators** licensing

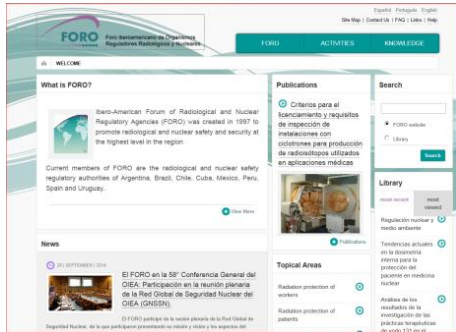


Areas of interest for future projects

- ✓ Nuclear Security / Physical Protection
- ✓ Dosimetry / Occupational exposures
- ✓ NORM
- ✓ Decommissioning



Promotion of results



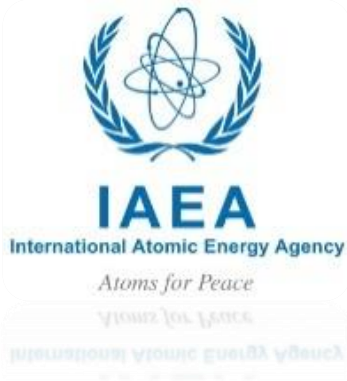
Ibero-American Knowledge Sharing Network (La RED) to facilitate and enhance knowledge sharing among its members, the staff from **other regulatory agencies** and public in general.

www.foroiberam.org

Sharing a common language, borders and history, regulators from the **Region** are invited as observers to FORO meetings and to exchange knowledge through La RED.



- Participation of **IAEA's experts** in FORO projects
- **Strategic partnership**: IAEA is FORO's technical reference organization
- FORO experts participate in **TC workshops** to share FORO results
- IAEA-FORO **joint publications** of FORO results.



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Cooperation

IAEA

- **Strategic Partnership**
- Participation of IAEA's experts in FORO's projects to transmit knowhow,
- Joint publications,
- Diffusion of FORO results through IAEA-TC's workshops,
- Interaction SEVRRRA-SAFRON

WHO: Participation of PAHO expert in FORO project on RP to patients and joint publications

ICRP: FORO is an ICRP's Special Liaison Organisation and share yearly results

IRPA: FORO cooperates with IRPA in organising International and Regional conferences in Latin America

HERCA/WENRA: Mutual presentations in Board Meetings

ETSON: MoU

Conclusions

- FORO wants to continue developing **relevant technical projects and activities, the sharing of experience and lessons learnt** in radiation protection, nuclear safety and security **with the aim at contributing to high levels of safety and security in all practices in the Ibero-America and beyond**
- **FORO has the intention to cover all the** issues included in the competences of an average regulator
- FORO is planning to launch in 2020-2021 a first project on the **security of transport of sealed sources.**

**Cooperation means trust and
Security is a sensitive issue.**

Thank you!



¡Muchas gracias!

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