REPROLAM

Red de Optimización de la Protección Radiológica Ocupacional en LatinoAmérica y el Caribe

NEWSLETTER

JANUARY 2026

Dear members:

With this new issue, we begin a renewed year of work for the Network for the Optimization of Occupational Radiological Protection in Latin America and the Caribbean (REPROLAM), reaffirming our commitment to technical cooperation, the exchange of experiences, and the strengthening of regional capacities in radiological protection.

In a dynamic context, where challenges related to radiological safety, emergency preparedness and response, and worker protection require an increasingly integrated approach, REPROLAM continues to consolidate itself as a meeting space for institutions, laboratories, and professionals across the region. The diversity of realities and experiences that make up our network is undoubtedly one of its greatest strengths.

Throughout this year, the bulletin aims to remain a communication and dissemination tool, sharing news, activities, technical developments, and relevant experiences that contribute to improving occupational radiological protection practices and to strengthening collaborative ties among member countries.

We invite the entire REPROLAM community to participate actively by contributing content, news, and reflections, with the conviction that joint work and shared knowledge are fundamental pillars for moving toward increasingly safe working environments.

Steering Committee

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EDITOR'S NOTE:

NEW TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE IN OCCUPATIONAL RADIOLOGICAL PROTECTION

The technological evolution of recent years is beginning to have a significant impact on the field of occupational radiological protection, offering new tools to strengthen the prevention, control, and management of radiological risk in the workplace. In this context, the incorporation of advanced digital solutions and artificial intelligence (AI) opens up relevant opportunities while also posing new challenges.

The use of emerging technologies makes it possible to improve the collection, processing, and analysis of large volumes of information related to occupational exposure. More integrated digital systems facilitate a comprehensive view of risk, supporting the early detection of unexpected situations and assisting decision-making, particularly in complex or dynamic scenarios.

Artificial intelligence, in particular, is beginning to be explored as a support tool for pattern recognition, risk prioritization, and resource optimization. Its potential lies in its ability to analyze historical and operational data to assist radiation protection professionals, without replacing technical judgment or human responsibility in decision-making.

The application of new technologies and AI in occupational radiological protection must be based on reliable data, transparent models, and clearly defined procedures. Likewise, their implementation requires adequate staff training and a clear understanding of the scope and limitations of these tools.

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In this context of transformation, occupational radiological protection faces the challenge of integrating technological innovation without losing sight of its fundamental principles. The responsible adoption of new technologies can contribute to safer working environments, provided that a critical and ethical approach is maintained and that implementation remains aligned with existing regulatory frameworks.

RECOMMENDED READINGS:

"***The role of artificial intelligence in occupational health in radiation exposure"***
A literature review analyzing the potential of AI to support the management of risk associated with occupational radiation exposure.
👉 https://link.springer.com/article/10.1186/s12940-025-01186-3

"Applications of AI Technology in Radiation Safety and Protection"
Article describing various applications of artificial intelligence in the field of radiation safety and protection.
👉 https://zgylqxzz.xml-journal.net/en/article/doi/10.12455/j.issn.1671-7104.240336

"Artificial intelligence in biology and medicine, and radioprotection research"
Perspectives on the use of AI in research related to radioprotection and related areas.
👉 https://www.frontiersin.org/articles/10.3389/frai.2023.1291136/full

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EURADOS ANNUAL MEETING 2026

HELSINKI, FINLAND – 16–19 FEBRUARY 2026

The European Radiation Dosimetry Group (EURADOS) invites the international community of radiation dosimetry professionals and researchers to participate in the EURADOS Annual Meeting 2026 (AM2026), to be held in Helsinki, Finland, from 16 to 19 February 2026.

This meeting represents one of the most relevant European events in the field of ionizing radiation dosimetry, providing a forum for technical updates, the exchange of experiences, and the coordination of joint projects in occupational, environmental, and medical radiological protection.

The program will include scientific sessions, technical workshops, and working group meetings, as well as the “Early Career Event”, aimed at encouraging the participation of early-career professionals and researchers.

Registration and submission of contributions are now open.

🌐 More information: eurados.sckcen.be

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4TH ENA WORKSHOP 2026
MOTTO: RETHINK. RECOVER. REVALUE

NATIONAL ACCELERATOR CENTRE, SEVILLE (SPAIN)
9–12 MARCH 2026

The European Naturally Occurring Radioactive Materials Association (ENA) invites the international community to the 4th ENA Workshop 2026, to be held in the city of Seville from 9 to 12 March 2026, organized by the National Accelerator Centre (CNA) and the Universities of Seville and Huelva.

ENA promotes the safe management of naturally occurring radioactive materials (NORM), fostering cooperation among professionals, researchers, and regulatory authorities to protect workers, the public, and the environment. This biennial workshop represents the main meeting point of the network, consolidating its role as a forum for technical and scientific exchange on NORM management.

In this edition, under the motto “NORM: Rethink. Recover. Revalue.”, the thematic sessions will address:

- Session 1: Rethinking radiological protection in existing industries, particularly in processes related to critical raw materials (CRM).
- Session 2: Recovery of historical NORM sites: experiences and case studies.
- Session 3: Revaluing industrial NORM.

A special session will be dedicated to phosphogypsum, a NORM material of high relevance due to its large volumes and potential for valorization. This session will include a field visit to the Huelva deposits, within the framework of the RESTORE 2030 project, currently under negotiation with the responsible stakeholders.

The program will also feature keynote lectures, panel discussions, and exchange sessions focused on the practical implementation of safe and sustainable NORM management strategies.

More information: eventos.us.es/go/enasevilla2026
Contact: enasevilla2026@us.es