

I REPROLAM SYMPOSIUM

“INTEGRATION AND SHARED EXPERIENCE IN
RADIOLOGICAL PROTECTION”
NOVEMBER 5-8, 2024 - RECIFE, BRAZIL

CALL FOR ABSTRACT SUBMISSIONS

More information and registration at:
<https://simposioreprolam2024.com/>

REPROLAM, the Network for Optimization of Occupational Radiological Protection in Latin America and the Caribbean, cordially invites all professionals in the field of radiological protection to participate in this Symposium, themed "Integration and Shared Experience in Radiological Protection."

THEMATIC AREAS

- 1- External and Internal Dosimetry.
- 2- Computational and Biological Dosimetry.
- 3- Occupational Radiological Protection and Operational Magnitudes.
- 4- Occupational Radiological Protection in NORM (Naturally Occurring Radioactive Materials).
- 5- Individual Monitoring in Workplace with Ionizing Radiation and in Unregulated Activities.
- 6- Radiation Metrology in Dosimetric Calibration and Intercomparison.
- 7- Education and Training of Human Resources.
- 8- Radiation safety evaluation

DATES OF INTEREST

FIRST ANNOUNCEMENT	January 2024
SECOND ANNOUNCEMENT	February 2024
ABSTRACT SUBMISSION DEADLINE	June 26, 2024
ABSTRACT ACCEPTANCE NOTIFICATION	August 15, 2024
EARLY REGISTRATION	August 30, 2024
COURSE REGISTRATION DEADLINE	October 10, 2024
FULL PAPER SUBMISSION DEADLINE FOR PUBLICATION	December 30, 2024

PAPERS

The complete works will be published within one year after the Symposium as a special issue of the scientific journal "Applied Radiation and Isotopes" (<https://www.sciencedirect.com/journal/applied-radiation-and-isotopes>). All manuscripts will be evaluated by two referees and must meet the acceptance criteria of the journal.

NEW

WEBINAR: "FROM CHALLENGES TO OPPORTUNITIES, BUILDING A CAREER IN THE NUCLEAR SECTOR"

WEDNESDAY, MAY 8TH AT 11 A.M. (BRAZIL TIME)



Adelia Sahyun -
ASW Consultants Ltda. Coautora convidada do livro Mulheres Nucleares

The objective of the webinar is to illustrate how times have changed for women in the nuclear sector. Additionally, the book "Mulheres Nucleares" will be presented.

Adelia is a physicist with a master's degree in Nuclear Engineering and Technology from the Polytechnic School of the University of São Paulo. Her expertise lies in the field of Nuclear Energy with a focus on Nuclear Engineering. She has professionally worked for over four decades in Radiological Protection across industry, medicine, and research; training; safety culture; e-learning; improvement; mining; radioactive material transportation; and radiological emergency response, both within regulatory bodies and consulting.

Today, she is an entrepreneur and is involved in consulting companies: ATOMO Radioproteção e Segurança Nuclear Ltda and ASW Consultants Ltda.

Throughout her career, she has held significant positions and is considered a prominent figure in her professional field.

Registrations: <https://forms.gle/kzmctMfBsz6gPauT7>

THE IRD CELEBRATES ITS 52ND ANNIVERSARY WITH AN EVENT FOCUSED ON RADIOLOGICAL PROTECTION, SAFETY, AND SUSTAINABILITY IN THE APPLICATIONS OF NUCLEAR TECHNOLOGIES.

On April 15th, a technical-scientific event was held at the IRD headquarters in Barra da Tijuca to commemorate the 52nd anniversary of the founding of IRD. The director of IRD, André Quadros, welcomed several distinguished guests including Francisco Rondinelli Júnior, the president of CNEN (Brazilian Nuclear Energy Commission); Wilson Calvo, the director of Research and Development; Alessandro Facure, the director of Radiological Protection and Nuclear Safety; and Fabiane Braga, the deputy director of Institutional Management. The event was attended by former directors of IRD, directors of scientific institutions, institutional partners, employees, collaborators, and students.



During the solemn session, two significant acts were signed in the field of radiological protection. Quadros signed an ordinance establishing a network of ionizing radiation metrology laboratories aimed at increasing the reliability of measurements with ionizing radiation, promoting the culture of metrological practices, fostering professional training in the field, providing competency testing, and enhancing cooperation among its members.

Another act, signed by the Deliberative Committee of CNEN, was the approval of CNEN Standard 3.01, "Basic Guidelines for Radiological Protection." This standard is the cornerstone of the Brazilian nuclear sector, serving as the basis for all other CNEN standards. Its revision signifies a paradigm shift, aligning the national regulatory framework with current international recommendations.

The topics of the roundtable discussions included the revision of standard 3.01; sustainability and radiological protection; radiological protection in the medical field; fuel cycle; energy security; safety, protection, and radiological safeguards. Moderators and speakers included professionals from CNEN, INB, Eletronuclear, Amazul, UFF, Abdan, Brazilian Metallurgy and Mining Company, International Atomic Energy Agency, and the Argentine Nuclear Regulatory Authority.

Read the full article and access the conference link at:

<https://www.gov.br/ird/pt-br/assuntos/noticias/noticias-2024/ird-comemora-52-anos-com-evento-sobre-protecao-radiologica-seguranca-e-sustentabilidade-nas-aplicacoes-de-tecnologias-nucleares>

THE IRD ORGANIZED AN INTERNATIONAL TRAINING ON RADIOLOGICAL PROTECTION

From April 15 to 19, the IRD conducted the Regional Training Course for ORPAS Review Service in Latin America, promoted by the International Atomic Energy Agency (IAEA). The aim was to train professionals to assess activities related to occupational radiological protection. Experts from nine Latin American countries participated in this training, including professionals from the IRD and the Radiological Protection and Nuclear Safety Directorate of CNEN.



During the program, the teams engaged in activities at IRD's Industry Laboratory, visited the Argonauta nuclear research reactor at the Nuclear Engineering Institute, and participated in case studies, simulations, and discussions. Participants received training in planning, interviewing, and reporting to evaluate countries' provisions on occupational radiological protection, identifying areas for improvement, making suggestions, recommendations, and recognizing best practices.

According to the IAEA, ORPAS reviewers are regulators, dosimetry experts, and radiological protection officers designated by their countries with extensive knowledge of legislative and operational aspects of occupational radiological protection.



Read the full article at:

<https://www.gov.br/ird/pt-br/assuntos/noticias/noticias-2024/ird-sedia-treinamento-em-protecao-radiologica>



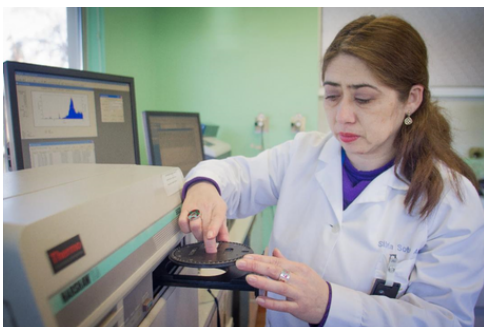
THE CCHEN CELEBRATES 60 YEARS OF CONTRIBUTION TO THE COUNTRY'S DEVELOPMENT AND THE BENEFIT OF ITS PEOPLE.

In 2024, the Chilean Commission for Nuclear Energy (CCHEN) commemorates two highly significant milestones: on one hand, it celebrates 60 years since Law 16.319 was enacted, which gave it life. The CCHEN is a public technological research institute focused on key areas of the country's development, where nuclear sciences and technologies, along with ionizing radiations, play a significant role in areas such as health, environment, materials, energy, and within those areas, cancer, climate change, and lithium, among others.



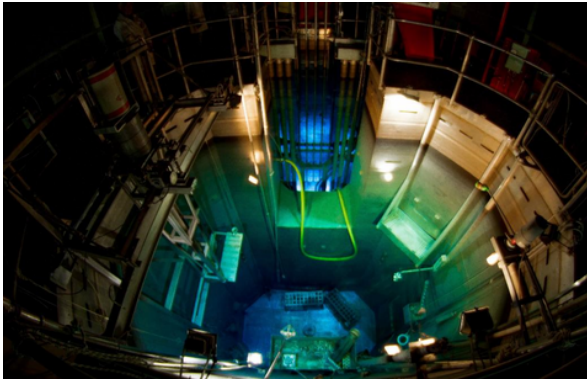
Furthermore, CCHEN is responsible for regulating and overseeing the safe use of these technologies in public and private entities, particularly highlighting nuclear medicine centers for first-category radioactive facilities, industry, and nuclear facilities throughout the country.

Today, CCHEN develops services, products, and various peaceful applications of nuclear energy, such as the production of radioisotopes for medical use; irradiation services for various types of food, raw materials, medical supplies, blood and platelets, and export products; services for the management of radioactive waste and disused sealed sources; dosimetry services for workers dealing with sources or equipment emitting ionizing radiation; ionizing radiation metrology services; fabrication of fuels for their research reactor, as well as capsules for irradiation; technological services and non-destructive testing for diagnostic and structural inspections; and services supporting heritage conservation and restoration efforts.

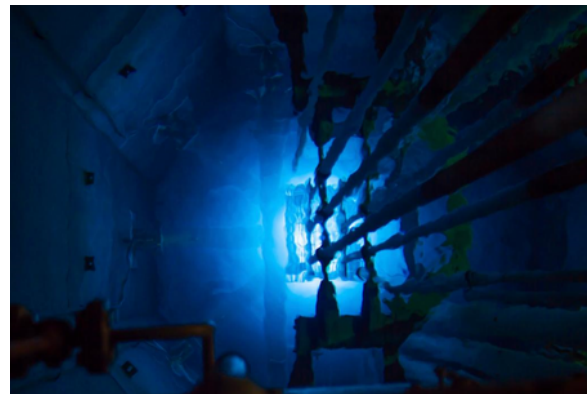


CCHEN has research and development centers that enable lines of investigation in the fields of plasma physics, matter and complexity, nuclear technologies in vulnerable ecosystems, nuclear physics, neutron spectroscopy, and materials for energy transition and sustainability.

A key aspect of the Commission's contribution revolves around the RECH-1 reactor, which celebrates 50 years of uninterrupted operation in 2024. It was on October 13, 1974, at 8:34 in the morning when RECH-1 achieved its first criticality, marking the first successful controlled nuclear fission in the country.



Over these five decades, the RECH-1 has significantly contributed by providing radioactive isotopes that enable the treatment of certain types of cancer and the diagnosis of serious illnesses, thereby offering hope and extending the lives of thousands of patients who have benefited over the years. This reactor was also designed for use in material composition studies, neutron imaging, and sample activation for analysis, such as neutron activation analysis technique.





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

NEWSLETTER

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"TRAINING COURSE IN RADIOLOGICAL PROTECTION FOR OCCUPATIONALLY EXPOSED WORKERS" VIRTUAL - ASYNCHRONOUS (IN SPANISH)

The Training Course in Radiological Protection for Occupationally Exposed Workers was developed by the IAEA as a training tool for workers exposed in Member States. The course covers basic concepts of ionizing radiation up to radiological protection, surveillance, and control of internal and external exposures.

The course consists of 5 modules:

- Module 1: Fundamentals of radiation, exposure, and dose
- Module 2: Radiation effects on health, principles, and safety standards
- Module 3: Radiological protection for external exposures
- Module 4: Radiological protection for internal exposures
- Module 5: Contamination control and PPE (Personal Protective Equipment)

Registration: <https://elearning.iaea.org/m2/course/view.php?id=1853>

The Network for the Optimization of Occupational Radiological Protection in Latin America and the Caribbean (REPROLAM) is a scientific and cultural society, non-profit, political, religious or racial, of unlimited duration, whose objective is to promote the optimization of occupational radiological protection. REPROLAM seeks to expand academic and scientific cooperation among its members, with the aim of promoting adequate radiological protection for workers.

Visit our website for more information: <http://www.reprolam.com/>

How to contact: reprolam2020@gmail.com