

DOSIMETRIA BIOLOGICA

SURVEY OF OPERATIONAL CAPACITIES IN RETROSPECTIVE DOSIMETRY USING BIOLOGICAL METHODS

FROM JULY 4 TO AUGUST 4, 2022

This survey is part of a series of regional surveys promoted by REPROLAM with the support of the IAEA, under Project RLA9088, to strengthen the regional capacities of end users and technical support organizations in the region in matters of radiation protection, and emergency preparedness and response.

The objective of this survey is to update and compile information about the operational capacities in Retrospective Dosimetry through biological methods in Latin America and the Caribbean, in order to continue promoting cooperation and scientific-technical exchange between the Laboratories, the organization of intercomparison and various technical activities of interest.

At the end of the collection of the information provided, it will be analyzed for the issuance of recommendations in order to continue with the development of Biological Dosimetry in the region, with the support of the IAEA. Likewise, a General Report of the participating laboratories will be published in order to visualize regional capacities.

The survey consists of the following sections:

1. CONTACT AND INSTITUTIONAL INFORMATION
2. GENERAL INFORMATION
3. SAMPLES AND DOSE ESTIMATION
4. TECHNIQUES AND TOOLS
5. EXPERIENCE WITH BIODOSIMETRY *in vivo*
6. COLLABORATIVE EXPERIENCE AND NETWORKS
7. NEEDS
8. OPERATIONAL CAPACITIES IN PANDEMIC

The survey will be available from **July 4, 2022** and will end on **August 4, 2022**

The link to the survey is: <https://forms.gle/AnxtQyB6LLeiTnhE9>

For any questions related to the survey, you can contact: jrearte@arn.gob.ar y tania@cphr.edu.cu



REPROLAM INTERCOMPARISON REMINDER

INTERCOMPARISON EXERCISE FOR EXTERNAL DOSIMETRY SERVICES 2022

DOSIMETRÍA EXTERNA

We are pleased to announce that the Intercomparison Exercise for External Dosimetry Services 2022 (ICReprolam2022), organized by REPROLAM with the support of the IAEA, is being successfully disseminated.

We remind you that this intercomparison is for whole body dosimeters used for the evaluation of Hp(10) and/or Hp(0.07). The irradiations, with photons, will be carried out in the Metrology Laboratory of the Ionizing Radiation-LMRI-DEN/UFPE.

For all those public and private institutions that are interested, we reiterate the proposed schedule.

Announcement – call for participants	June 2022
Registration of participants:	June - July 2022
Deadline for registration:	July 31, 2022
Deadline for sending dosimeters to the LMRI-DEN/UFPE:	September 30, 2022
Irradiations:	October - November 2022
Return of the dosimeters to the SDE for reading:	December 31, 2022
Deadline for sending obtained results:	2 months after received irradiated dosimeters
Final results information:	March 2023
Issuance of Participation Certificates:	April 2023

The details of the exercise can be found on our website at the following link:

http://www.reprolam.com/?page_id=3576



CULTURA DE SEGURIDAD

SAFETY FIRST

Space dedicated to common understanding and the promotion of Safety Culture through information, analysis, dissemination of experiences and related news.

IS THE MANAGERS' SAFETY LEADERSHIP OF AN ORGANIZATION A CONDITION TO DEVELOP A SAFETY CULTURE OR IS THE DEVELOPMENT OF A SAFETY CULTURE WHAT LEADS TO THAT LEADERSHIP?

Much progress has been made in understanding the crucial relationship that exists between the safety leadership of an organization's managers and the development of its Safety Culture. However, there are still approaches that view management safety leadership as separate, though not detached, from the concept of safety culture, while other approaches include it as a trait of an organization's Safety Culture.

The reality is that certain level of managers' safety leadership is essential to initiate the cultural change that means developing an organization's safety culture, but in turn, as the organization develops its safety culture, the managers' leadership of managers is improved and strengthened. Therefore, leadership is a safety culture inducing element and, at the same time, it is part of the safety culture of an organization.

Leadership for safety at the highest levels of an organization involved in the use of ionizing radiation sources is the third Fundamental Safety Principle included in the basic IAEA documents [1] and later developed as the second General Safety Requirement in the document GSR Part 2 [2]. Both documents recognize the role of leadership in the development of the Safety Culture. The FORO guide [3] on safety culture, as well as other approaches in this field, include Senior Management Safety Leadership as a distinguishing trait or a basic element of an organization's safety culture, emphasizing its key role:

The leadership and commitment of senior management regarding safety are visible, permanent and recognized by it as key elements for the promotion and development of a strong safety culture within the organization that carries out activities with radiation sources. [3]

The promotion and development of a safety culture in an organization, being a cultural change process, will always be a top-down process, so the managers' leadership and agents of change roles is unquestionable. However, it should be remembered that the success of any safety culture initiative or intervention will also depend on the degree of involvement and motivation of all organization's staff in that process.

If you are a manager or you are working in Safety Culture promotion, remember that it is essential that the organization's top management be actively involved in this process and that its safety leadership be visible and real, being at the same time, a support to other Safety Culture basic elements of the organization.

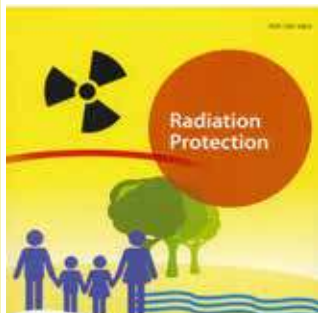


Rubén Ferro (Cuba) y Renán Ramírez (Perú)

[1] IAEA. FUNDAMENTAL SAFETY PRINCIPLES. Vienna, 2007

[2] IAEA. IAEA SAFETY STANDARDS SERIES No. GSR Part. 2 Leadership and management for safety. GENERAL SAFETY REQUIREMENTS, Vienna, 2017

[3] IAEA. IAEA TECHNICAL DOCUMENT COLLECTION. TECDOC1995 Safety culture in organizations, facilities and activities related to the use of ionizing radiation sources, Vienna, 2022



EURADOS TRAINING COURSE 2022 : Radiation Protection Dosimetry and Accreditation of IMS: Secrets & Solutions (based on Radiation Protection 160)

Lisbon, Portugal, 3rd to 7th October 2022

EURADOS WG2 will be holding the 6th training course based on the European Commission's report - Technical Recommendations for Monitoring Individuals Occupationally Exposed to External Radiation (Radiation Protection 160, RP160). The course will cover all aspects of individual monitoring as discussed in RP160 with an emphasis on metrology, quality assurance and type testing. Recent developments in RP will also be covered, including the new ICRU dose quantities.

The training program will contain some practical work for which a laptop will be useful (but not essential) and group discussion to and provide an interactive learning experience.

Important Dates:

Early Registration: 18th July 2022

Early Payment deadline: 25th July 2022

Deadline for Late Registration: 9th September 2022

Deadline for Late Payment: 16th September 2022

Training course: Monday 3rd to Friday 7th October 2022

European Radiation Protection Week: Monday 9th to Friday 14th October 2022

TOPICS TO BE COVERED:

- General radiation protection
- Basic detection principles
- Measurement methods
- Dosimetric quantities
- Uncertainty evaluation
- Calibration and type-testing
- Inter-comparisons
- Quality assurance, quality control
- Dose registration
- Accreditation
- QA audits

To register and more information: <https://www.ptb.de/cms/ptb/fachabteilungen/abt6/seminare/tceurados-wg2.html>



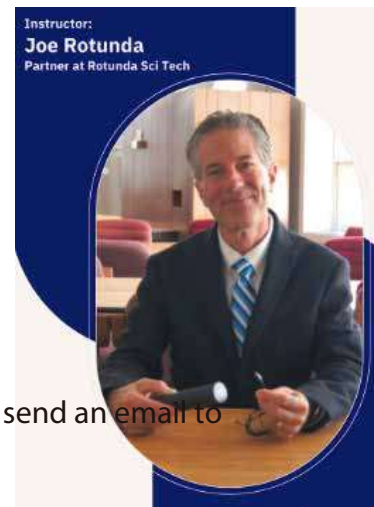
HARSHAW TL DOSIMETRY TRAINING

SAN DIEGO, LITTLE ITALY DISTRICT -
VIP CONFERENCE CENTER
FROM AUGUST 8 TO 11, 2022

Rotunda Scientific Technologies® has been leading successful Harshaw TLD training courses since 2012, and we are excited to announce our upcoming conference! Experience four days of Harshaw TLD Training in beautiful San Diego along with a complete binder of training materials.

Learn the Theory and Operation of the Harshaw TLD Systems with Joe Rotunda

Joe Rotunda is a leading expert in the field of dosimetry with more than 30 years of global experience. He is an active member on ANSI & IEC working groups for Standards development relating to Dosimetry and Radiation Protection. Prior to forming Rotunda Scientific Technologies in 2012 he worked at Harshaw / Thermo Fisher Scientific developing, directly or indirectly, the dosimetry products that are part of this course. For more information send an email to



Course Outline

Monday	Tuesday	Wednesday	Thursday
8:00hs Radiation Quantities & Units	8:00hs Multielement TL dosimeters	8:00hs TLD System Operation Overview	8:00hs AWhole Body Dose Algorithms
9:30hs Break	9:30hs Break	9:30hs Break	9:30hs Break
10:00hs Thermoluminescence Concepts	10:00hs Reader Calibration Factors (RCFs)	10:00hs WinREMS & WinREMS SQL	10:00hs Whole Body Dose Algorithms (cont..)
12:00hs Lunch	12:00hs Lunch	12:00hs Lunch	12:00hs Lunch
13:00hs Properties of LiF:MgTi & Others with Demonstration	13:00hs Element Correction Coefficients (ECCs)	13:00hs Glow Curve Review & Analysis	13:00hs Extremity Dose Calculations
14:30hs Break	14:30hs Break	14:30hs Break	14:30hs Break
15:00hs TLD Readers Overview & Function	15:00hs System Calibration using 137Cs	15:00hs TLD Reader QA/QC	15:00hs Accreditation Overview

Course Registration: Registration Fee for the training is: US\$2,300*+/-/person and includes: - Four (4) days Harshaw TLD Training providing 32 AAHP CECs - Complete Training Program Course Material in binder format - Continental Breakfast, Buffet Lunch, mid-morning & afternoon refreshments - A Monday group dinner in Little Italy

For more information send an email to Info@RotundaSciTech.com.



ISEMIR IS THE IAEA INFORMATION SYSTEM ON OCCUPATIONAL EXPOSURE IN MEDICINE, INDUSTRY AND RESEARCH.

The IAEA launched a new module of the information system on occupational exposure in medicine, industry and research (ISEMID) targeting workers in industries involving NORM called ISEMIR-N.

ISEMIR-N: a tool for sharing operational experiences.
ISEMIR N: a tool that facilitates the exchange of operational experience and information to improve the optimization of occupational radiological protection in different industrial processes involving naturally occurring radioactive material (NORM) through the regular collection and maintenance of data on occupational exposure.



For registration and more information: <https://nucleus.iaea.org/isemir>