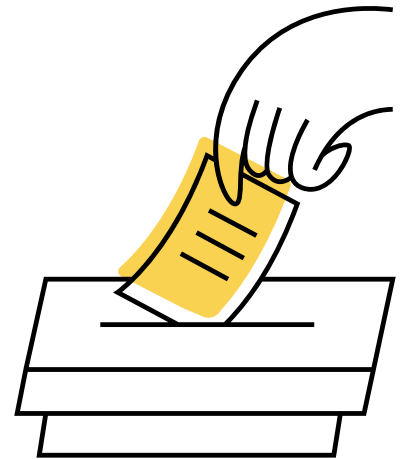


# REPROLAM ELECTIONS

From 3/14 08:00 UTC  
to 3/15 20:00 UTC.



We remind all members that between March 14 and 15 of this year, the election of the new REPROLAM Directive Committee will take place, which will serve as its mandate from March 2023 to March 2026.

In accordance with the protocol established for the election process, all the proposed "Candidacy Lists for the Directive Committee" will be disclosed on the REPROLAM Website and Email.

The Electoral Commission will send all active members the instructions to proceed to vote 48 hours prior to the day of the election. You can only vote for one of the lists validated and published in a timely manner by it.

Once the voting period is closed, the Electoral Commission will proceed to carry out the count and will subsequently notify the Directive Committee and the members of the results of the elections.

The list with a simple majority will be considered the winner. In the event of a tie between the two most voted lists, the protocol will be repeated, but only with said lists within a maximum period of five (5) business days.

The Electoral Commission will notify all active members of the final result of the election or of the second round.



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.*

### REPORT, REPORT, REPORT... WITHOUT FEAR OF REPORTING.

One of the most indicative elements of the cultural change that an organization that boasts a high Safety Culture has experienced is the existence in it of an environment where any employee can report a safety problem or concern, whether caused by their own error, a colleague or a mistaken decision by a manager, without fear of personal consequences, reprisals or intimidation.

And it is that achieving that environment of safety awareness is one of the most difficult issues, precisely for cultural reasons, stigmas or stereotypes that may exist in a country or in a specific sector.



Reporting that oneself has made a mistake, instead of hiding it, or accepting that another point out a mistake instead of looking for excuses to justify it, is a reflection of a safety awareness where one understands the benefit that this represents for the organization safety. Every mistake or failure that is hidden is a learning opportunity that the entire organization loses.

Reaching those levels of reporting culture takes time and, above all, requires conditions and support for reporting.



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Conditions range from institutional or national policies to encourage free reporting of safety concerns to independent and formal channels or mechanisms for reporting, analyzing the report, resolving the safety issue, and providing feedback to the person who reported or those involved, demonstrating thus reinforcing the usefulness of reporting security problems. Reports can be made within the organization or to a regulatory authority. It includes not only reporting radiological incidents or accidents that are required by law, but also, and perhaps more importantly, any equipment failure, human error, unsafe act, near miss, or other condition, action, or decision that may affect safety. . One of the first and most recognized experiences on this subject was implemented in the United States nuclear industry since 1996, as the Safety Conscious Work Environment (SCWE).

Support is the other fundamental aspect for these environments to consolidate based on trust and the usefulness of reporting. It includes everything from the measures and mechanisms to prevent intimidation, harassment or reprisals for reporting to the recognition of the person reporting for their contribution to safety within the organization, not only by Senior Management, but also by the rest of the workers. . No less important as support is the evidence of the effective use that the organization makes with the reports received, motivating new reports with them.

***If you are a manager or work promoting a Safety Culture, remember that achieving free reporting environments on safety will be one of the biggest challenges you will have in your organization, but once established and seen its results, it will be a natural behavior in your organization and a robust defense against the occurrence of accidents.***

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

[2] IAEA. IAEA SAFETY GLOSSARY, Vienna, 2018

[3] Freedom of Employees in the Nuclear Industry to Raise Safety Concerns without fear of retaliation: Policy Statement, 61 FR 24336, Vol 61 No. 94, USA, 1996.

Ruben Ferro - Regan Ramierez

## **POSTGRADUATE COURSE IN COMPUTATIONAL SIMULATIONS AND INTERNAL DOSIMETRY IN NUCLEAR MEDICINE**

VIRTUAL POSTGRADUATE - NATIONAL UNIVERSITY OF LA PLATA

FIRST SEMESTER 2023

**Responsible:**

Cecilia Yamil Chain, Adjunct Professor, 20 hours of classes.

Luis Héctor Illanes, Adjunct Professor, 20 hours of classes.

**Characteristics of the course:** Theoretical-practical.

**Course modality:** Distance learning.

**Weekly workload:** 4 hours.

**Total duration in hours:** 40 hours

**Theory hours:** 20 hours

**Theoretical/practical hours:** 20 hours

The entire course will be taught remotely.

The course "Internal Dosimetry of Radiopharmaceuticals" focuses on the calculation of the dose of ionizing radiation received by different organs of the body when radiopharmaceuticals are administered to a patient. In the first part of the course, aspects related to the foundation, the need and the methodological possibilities to carry out dosimetric calculations are dealt with. On the basis of what has been learned, in the second part, cases of dose calculations in the most frequent Radiopharmaceutical Therapies in our environment are introduced. Finally, the perspectives of computer simulations in the area of performance are presented. Internal dosimetry of radiopharmaceuticals is an area of both scientific and clinical performance, which involves anatomical/physiological and pharmacokinetic aspects (distribution of radioactive material in the patient), chemical aspects (structure/function of the radiopharmaceutical and in vivo stability of the compound), physical (of interaction of ionizing radiation with matter) and mathematical aspects (biokinetic models of distribution of the radiopharmaceutical in different compartments of the body). Finally, its advances are closely related to computer simulations. Hence, this course has a potential link with the objectives of the PhD program of our faculty, in all the mentioned areas.

The development will be in the virtual classroom of the Chair of Internal Dosimetry of Radiopharmaceuticals.

**Beginning of the dictation:** 23/3/2023

**Number of students:** 20

**Tariff:** 30,000 pesos (the tariff does not apply in the case of postgraduate students of the Faculty of Exact Sciences).

CONTACT WITH THE PERSON IN CHARGE:

Place of Work: Institute of Theoretical and Applied Physicochemical Research.

Email: [luis.illanes@fisica.unlp.edu.ar](mailto:luis.illanes@fisica.unlp.edu.ar)

[https://www.exactas.unlp.edu.ar/articulo/2023/2/27/dosimetria\\_interna\\_de\\_radiofarmacos](https://www.exactas.unlp.edu.ar/articulo/2023/2/27/dosimetria_interna_de_radiofarmacos)



## 4TH INTERNATIONAL CONFERENCE ON DOSIMETRY AND ITS APPLICATIONS (ICDA-4)

VALENCIA, 16 - 20 OCTOBER 2023

The 4th International Conference on Dosimetry and its Applications (ICDA-4) will take place in Valencia, at the Polytechnic City of Innovation of the Universitat Politècnica de València on 16-20 October 2023. Several institutions and international organizations will be co-sponsoring ICDA-4. Besides the Conference sessions, tutorial and refresher courses will be organized.

### TOPICS

- Individual Dosimetry and Monitoring
- Computational Dosimetry and Phantoms
- Internal Dosimetry and Biokinetic models
- Biodosimetry, Radiobiology and Retrospective Dosimetry
- Dosimetry for Epidemiology
- Environmental Dosimetry, radioactivity measurement and monitoring
- Micro- and Nanodosimetry
- Monte Carlo and hybrid methods in Dosimetry and Radiation Measurement
- Radiation Protection and Dosimetry in Medicine
- Radiation Protection and Dosimetry in Industry
- Radiation Protection and Dosimetry in NORM industries
- Dosimetry of radon exposures
- Low dose and protracted exposures
- Dosimetry in radiological and nuclear emergencies and accidents
- Radiation Shielding and Dosimetry at Accelerators
- Dosimetry in Space applications
- Neutron Dosimetry
- Nuclear Data and Evaluation

### IMPORTANT DATES

**First Announcement:** December 21, 2022

**Second Announcement/Call for Papers:** March 1, 2023

**Deadline for abstract submission:** March 30, 2013

**Notification to authors:** May 25, 2023

**Early Bird Registration Deadline:** June 30, 2023

**Final program:** October 15, 2023

**Conference start:** October 16, 2023

More information: <https://icda-4.webs.upv.es>





## **INTERNATIONAL RADIOLOGICAL PROTECTION SCHOOL (IRPS)**

**14-18 AUGUST 2023**

**STOCKHOLM, SWEDEN**

The International Radiological Protection School (IRPS) is developed and organised by the OECD Nuclear Energy Agency (NEA) in co-operation with the Swedish Radiation Safety Authority and the Centre for Radiation Protection Research of Stockholm University.

Established in 2018, the course is designed to provide participants with a comprehensive understanding of the international radiological protection system, its application in diverse and emerging circumstances, and the latest developments based on new scientific knowledge and lessons learnt.

Designed for early to mid-career experts, this five-day course will feature lectures by renowned experts on topics including:

- Essentials and principles of the international system of radiological protection;
- Translation of the system into policy standards and regulations;
- Evolution and practical use of dose criteria;
- Underlying science and health effects of radiation exposure;
- Practice of managing protection of the public, environment, workers, and patients;
- Societal aspects and ethics.

**Deadline for applications: 15 April 2023.**

More information:

[https://www.oecd-nea.org/jcms/pl\\_27499/international-radiological-protection-school-irps-2023-edition?utm\\_source=mnb&utm\\_medium=email&utm\\_campaign=Courses](https://www.oecd-nea.org/jcms/pl_27499/international-radiological-protection-school-irps-2023-edition?utm_source=mnb&utm_medium=email&utm_campaign=Courses)



## TRAINING COURSE ON "HOW TO MEASURE AND ANALYZE LUMINESCENCE SIGNALS FOR POTENTIAL APPLICATIONS IN RADIATION DOSIMETRY: THEORY AND COMPUTATIONAL PROCEDURES"

JUNE 12, 2023 - 08:00 – 12:30 PM.



**Steve McKeever**

*Emeritus Regents Professor of Physics,  
Oklahoma State University, USA*



**Vasilis Pagonis**

*Emeritus Professor of Physics, McDaniel  
College, USA and Associate Editor, Radiation  
Measurements*

### OVERVIEW

**PART I:** *Steve McKeever, Emeritus Regents Professor of Physics, Oklahoma State University, USA*

"Garbage in: Garbage Out". Understanding What You Measure is Critical

The discussion will cover understanding kinetics, what the standard equations mean and don't mean, how to collect the data, essential basic analytical tools, rudimentary and novel peak fitting approaches.

**PART II:** *Vasilis Pagonis, Emeritus Professor of Physics, McDaniel College, USA and Associate Editor, Radiation Measurements*

Luminescence signal analysis with open access software in Python and R

Practical examples will be demonstrated using software codes in Python and R for TL/OSL analysis, using actual experimental data files from dosimetric materials. Codes will be made available at the workshop in the form of Jupyter notebooks, which participants will be able to download freely from the web. Using their own laptops, participants can log into their Google Drive account and can run the codes immediately in the Google cloud, within the so called Google Colab.

The training course is organised by EURADOS Working Group 10 "Retrospective Dosimetry".

## **Participation fee**

The participation fee is 200 € per attendee.

Participants affiliated with EURADOS sponsoring institutions (see [www.eurados.org/sponsors](http://www.eurados.org/sponsors)) are offered a 10 % discount. The participation fee is 180 €.

EU-residents should indicate the VAT-ID in the registration form, which will be checked for validity. Otherwise additional 7 % VAT will be issued.

The fee includes participation in the training course, coffee break at 10:00 GMT and lunch at 12:30 GMT.

Please note: The fee does not cover the participation in the EURADOS Annual Meeting (AM2023), which takes place from Monday, 12th June to Thursday, 15th June. However, you are invited to register for the AM2023 as well on [www.eurados-registration.org](http://www.eurados-registration.org). For more information, see the 2nd announcement, which will be published on the EURADOS website soon.

## **Registration**

Please register online here by 1st June 2023.

For further information please contact: [liz.ainsbury@ukhsa.gov.uk](mailto:liz.ainsbury@ukhsa.gov.uk).

[https://eurados.sckcen.be/news-overview/TC\\_TL](https://eurados.sckcen.be/news-overview/TC_TL)





**THINGS TO KEEP IN MIND WHEN YOU FINISH YOUR SIMULATIONS:  
"EURADOS WG6 INTERCOMPARISONS IN COMPUTATIONAL DOSIMETRY"  
TEASERS (RADIATION MEASUREMENTS SPECIAL EDITION)  
TUESDAY MARCH 14, 2023 10:00 - BRASILIA (GMT -3:00)**

Monte Carlo simulations of radiation transport have become an indispensable tool in radiation dosimetry, and many of the available codes have been developed to facilitate their implementation by non-expert users. To monitor the state of the art of the practical use of these tools, the EURADOS Working Group 6 "Computational Dosimetry" organized several different exercises. The results of these studies have recently been published in a special online issue of Radiation Measurements entitled "EURADOS Intercomparison in Computational Dosimetry".

The webinar presents some of the lessons learned from the exercises regarding common pitfalls and necessary quality controls that researchers running simulations should be aware of. Examples chosen include a common problem of relevance to experts in medical physics (determining the dose to the patient in an X-ray examination), the calculation of the dose to the fetus from proton therapy in pregnancy, and the most recent case. academic study of the dose around a single gold nanoparticle in X-ray irradiated water. The issues considered are not specific to these examples, but generalize to all Monte Carlo simulations.

- 14:00 Welcome and presentation (H. Rabus)
- 14:05 Exercises related to ICRP/ICRU adult reference computational phantoms (M. Zankl)
- 14:20 Research on the dose to the fetus under maternal proton therapy (H. Brkic)
- 14:35 The WG6/WG7 Gold Nanoparticle Exercise (H. Rabus)
- 14:50 Discussion (Chairperson: J. Eakins)

[https://www.bigmarker.com/sckcen/Things-to-consider-when-your-simulations-are-finished-teasers-from-EURADOS-WG6-Intercomparisons-in-Computational-Dosimetry-Special-Issue-of-Radiation-M?show\\_live\\_page=true](https://www.bigmarker.com/sckcen/Things-to-consider-when-your-simulations-are-finished-teasers-from-EURADOS-WG6-Intercomparisons-in-Computational-Dosimetry-Special-Issue-of-Radiation-M?show_live_page=true)



The US Nuclear Regulatory Commission (NRC) 35th Regulatory Information Conference (RIC), which will take place March 14-16, 2023, will be a "hybrid" event. The RIC is open to all. Although there are no fees for the conference, all attendees must be registered.

The US Nuclear Regulatory Commission's Annual Regulatory Information Conference (RIC) is the largest public meeting hosted by the agency, bringing together nearly 3,000 participants from more than 30 countries representing stakeholders from other government agencies, industry, international organizations and the general public. The RIC is sponsored by the Office of Nuclear Reactor Regulation and the Office of Nuclear Regulatory Research, and provides an open environment in which diverse stakeholder groups can learn, share, and discuss information about important and timely nuclear regulatory activities and emerging problems.

The RIC offers an illustrious technical program featuring experts from across the agency, as well as speakers from industry, academia, and the community. Throughout the conference, attendees can engage in dynamic sessions with panelists addressing a wide range of topics of interest. To complement the technical program, interactive digital exhibits will be available for participants to view at their leisure. Attendees also have the opportunity to take tours of the NRC Operations Center to round out their overall conference experience.

For more information: <https://www.nrc.gov/public-involve/conference-symposia/ric/index.html>

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](mailto:reprolam2020@gmail.com)