

Announcement of the EURADOS Intercomparison 2018 for whole body dosimeters

Over the last decade EURADOS, through its Working Group 2 (WG2), has been carrying out a programme of work on harmonisation of individual monitoring in Europe. WG2 Subgroup 2 was established specifically to carry out a feasibility study for a programme of self sustained Individual Monitoring Service (IMS) intercomparisons in Europe with the aims of improving the harmonization of individual monitoring and helping the IMS to comply with ISO 17025. Following the feasibility study, EURADOS established an Organization Group to start the programme. Five intercomparisons for whole body dosimeters and two intercomparisons for extremity dosimeters have been completed since 2008. **EURADOS now has the pleasure of announcing the 2018 intercomparison (IC2018ph) for whole body dosimeters.**

Scope

The 2018ph intercomparison is for whole body dosimeters used for the assessment of $H_p(10)$ and/or $H_p(0.07)$. Irradiations for photons, will be carried out in an accredited or primary standard European irradiation facility in terms of $H_p(10)$ and $H_p(0.07)$ in the following ranges:

- > Energy: 30 keV to 1.3 MeV
- > Dose equivalent: 0.2 mSv to 1.0 Sv
- > Angle of incidence: $\pm 60^\circ$

Intercomparison procedure

IMS wishing to participate will complete the application form which can be accessed after registration on the IC2018ph on-line platform (IOP). The participating IMS will be informed when their application has been accepted.

On acceptance of the application, the participants will receive an invoice from EURADOS and instructions for dosimeter labelling and despatch.

The participation fee is 1350 Euro per dosimetry system. EURADOS sponsors will pay 1215 Euro for one system and 1350 Euro for any additional systems. Fees must be transferred in advance to the EURADOS bank account (free of bank transfer costs) after receiving the invoice from EURADOS. Refunding will only be possible in the unlikely event that the intercomparison is cancelled by EURADOS.

The fees have been calculated on a non-profit basis and any surplus money will be used to support the harmonisation of individual monitoring and other EURADOS activities.

For this intercomparison a total of 34 dosimeters are required from each participant.

- > 22 dosimeters for irradiation
- > 12 transit / spare dosimeters

Werner Rühm (Chairperson)
Helmholtz Zentrum München GmbH
Ingolstädter Landstr. 1
85764 Neuherberg, Germany
Phone: +49 89 3187 3359
werner.ruehm@eurados.org

Filip Vanhavere (Vice Chairperson)
SCK•CEN, RDC
Boeretang 200
2400 Mol, Belgium
Phone: +32 14 332859
filip.vanhavere@eurados.org

EURADOS e.V.
www.eurados.org
office@eurados.org

USt-IdNr. (VAT Reg.No.): DE283696163

After the irradiations have been carried out, the co-ordinating laboratory will return the dosimeters to the participants for readout. Within one month from receiving the dosimeters the participants will submit the results in terms of $H_p(10)$ and/or $H_p(0.07)$ in accordance with the procedures that can be found on the IOP.

After the deadline for submitting results to the co-ordinating laboratory has passed, participants will receive details of their response values. Change of results after distribution of the irradiation data will only be possible in case of technical or administrative errors made by the irradiation laboratory or the co-ordinating laboratory.

After confirmation of the results, EURADOS will provide the participants with a "Certificate of Participation" including information on the irradiation qualities, doses, response values and overall uncertainties for all irradiations.

Intercomparison Report

The Organization Group will prepare a report summarizing the results of the intercomparison. The report will include the names of the IMS that have participated, the types of dosimeter and a photograph of dosimeters used but the results will be presented anonymously.

Intercomparison results will be treated by EURADOS as confidential data and IMS identity will not be disclosed. Data used in technical and scientific studies will be anonymous. The Organization Group has agreed to ensure confidentiality and the participants results will be known only to a minimum number of persons within the Organization Group.

Provisional Schedule – dates to be confirmed

Announcement - Call for participants	Feb 2018
*Registration of participants and systems	16 March 2018
Deadline for IMS sending application forms	13 April 2018
Deadline for IMS sending dosimeters to Coordinator	11 May 2018
Irradiations	June - August 2018
Coordinator sending dosimeters for readout	September 2018
Deadline for IMS sending dosimeters results to Coordinator	9 November 2018
Final results available	January 2019
IMS receiving certificates of participation	February 2019

EURADOS Intercomparison 2018 Organization Group

Andrew McWhan/Wioletta Dobrzynska	Cavendish Nuclear Limited, UK (Coordinating Lab)
Hannes Stadtmann	Seibersdorf Labor GmbH, AT
Markus Figel	Helmholtz-Zentrum Muenchen, DE
Tom Grimbergen	NRG, NL
Ana M. Romero	Ciemat, ES

Coordinating Laboratory:

Andrew McWhan & Wioletta Dobrzynska

Cavendish Nuclear Limited, Berkeley Approved Dosimetry Service

Building A11, Gloucestershire Science and Technology Park

Berkeley, Gloucestershire

GL13 9FB, UK

Contact: coordinator@ic2018ph.org, *Registration: <http://www.ic2018ph.org>