

# NEA WEB EVENT: REGULATORY IMPLEMENTATION OF EQUIVALENT DOSE LIMIT FOR THE LENS OF THE EYE FOR OCCUPATIONAL EXPOSURE

## DISCUSSION PART - THEME 1: IMPLEMENTATION ASPECTS

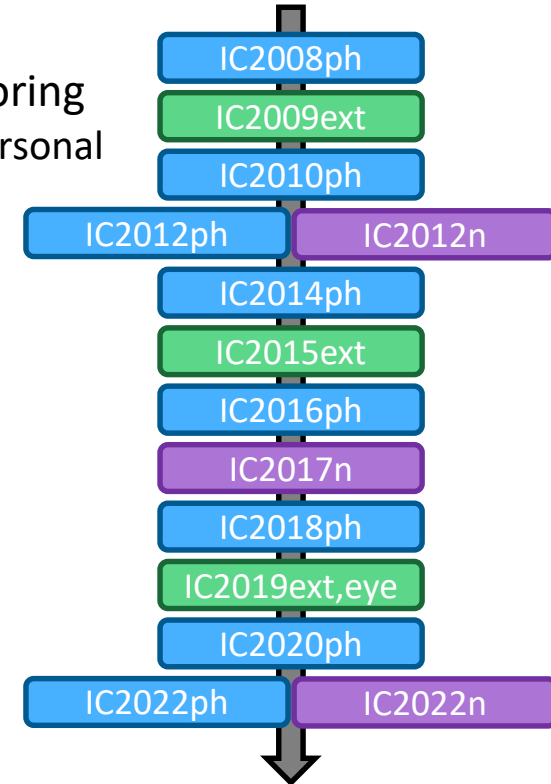
Marie-Anne Chevallier, Institut de Radioprotection et de Sûreté Nucléaire  
Chair of EURADOS WG2

## EYE LENS DOSIMETRY: RECENT WG2 EURADOS ACTIONS

### [ INTERCOMPARISON EXERCICE

#### EURADOS Working Group 2: "Harmonisation of Individual Monitoring

- WG2 was assigned the task of setting up a self-sustained program of personal dosimeter inter-comparisons in Europe, since 2008.
- Intercomparison for whole body / whole body neutron / extremity dosimeters



## EYE LENS DOSIMETRY: RECENT WG2 EURADOS ACTIONS

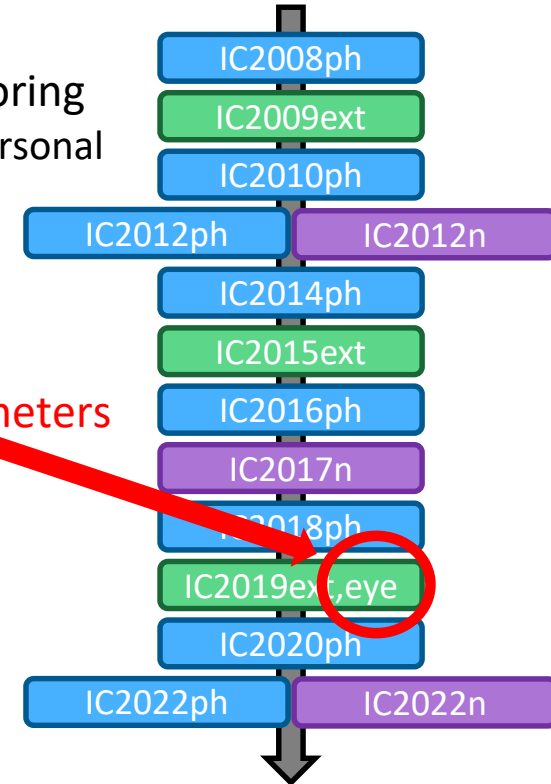
### [ INTERCOMPARISON EXERCICE

#### EURADOS Working Group 2: "Harmonisation of Individual Monitoring

- WG2 was assigned the task of setting up a self-sustained program of personal dosemeter inter-comparisons in Europe, since 2008.
- Intercomparison for whole body / whole body neutron / extremity doseimeters

#### 2019: intercomparison exercise for extremity **and eye lens doseimeters**

- First one driven by WG2 for routine eye lens doseimeters supplied by Individual Monitoring Services
- Specifications for eye lens doseimeters designed to:
  - estimate  $H_p(3)$  which are worn on the head (not on the chest)
  - measure either photons and betas or photons only



## EYE LENS DOSIMETRY: RECENT WG2 EURADOS ACTIONS

### [ INTERCOMPARISON EXERCICE

IC2019ext,eye provided useful results about the current performances for eye lens doseimeters.

More information on the dedicated EURADOS report:

**"EURADOS Intercomparison 2019 for Extremity and Eye Lens Doseimeters - Summary of Procedures, Results and Conclusions"**

A.F. McWhan, W. Dobrzynska, H. Stadtmann, T.W.M. Grimbergen, M. Figel, A.M. Romero, I. Clairand

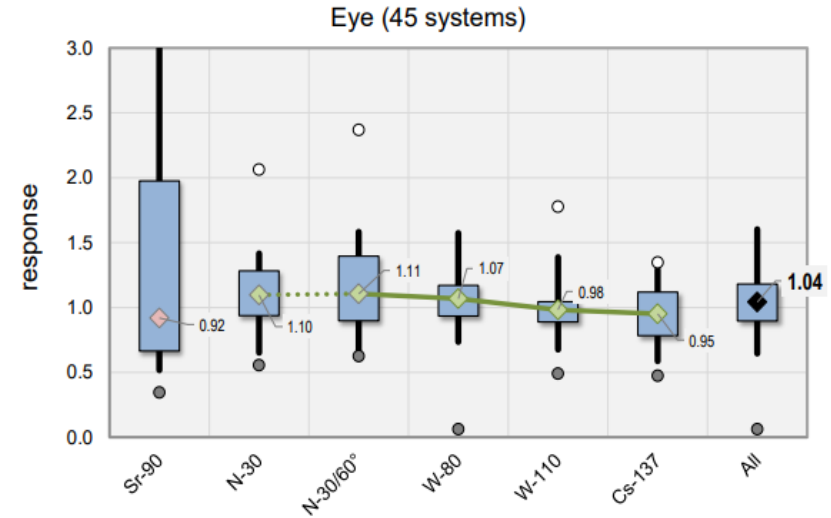


Figure 13: Distributions of all  $H_p(3)$  response values for different radiation qualities. Diamond (Median), box (50% range), bar (90% range), dots (minimum, maximum).

Available on the EURADOS website:

<https://eurados.sckcen.be/documents-publications/>

## EYE LENS DOSIMETRY: WG2 EURADOS ACTIONS

### [ COLLABORATION BETWEEN EURADOS AND ISO

- ISO/TC85/SC2/WG19 : Individual monitoring of external radiation
  - Elaboration of standards dealing with personal dosimetry
  
- Collaborative action: setting up a survey
  - Participants: Individual Monitoring Services
  - Aim: have an up-to-date overview of the routine practices of individual monitoring services in order to assist ISO in the drafting/revision of standards
  - Action on progress with one specific section about eye lens dosimetry
  
- Action all the more of interest as **the revision of ISO 15382 is started**
  - ISO 15382:2015 : Radiological protection — Procedures for monitoring the dose to the lens of the eye, the skin and the extremities

*Thank you for  
your attention!*