# **EURADOS Intercomparison 2014ph: A Participant's Feedback**

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## **IAEA Radiation Safety Technical Services**

#### Individual monitoring

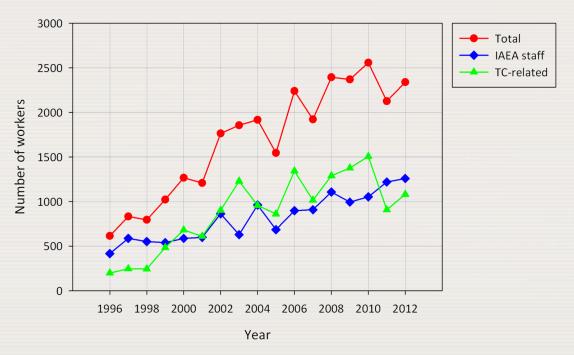
- Active personal dosimetry, thermoluminescence whole-body (γ, β, n) and extremity (γ, β) dosimetry for external sources of radiation
- Whole-body and lung counting (trans-U), urine analysis (α, β, γ emitters) for internal sources of radiation
- Workplace monitoring
  - Dose rate, surface contamination, Pu in air and waste, leakage testing of sources
- Sole accredited testing laboratory within the United Nations system





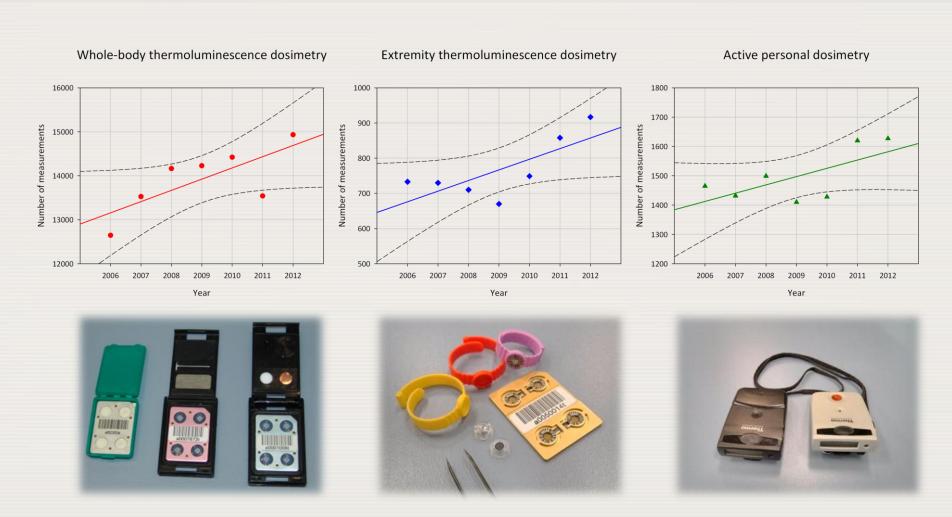
### **Monitored Radiation Workers**

- External and internal monitoring services for individuals under IAEA control or supervision
  - IAEA staff
  - External experts, training course participants, fellows and visitors





## **Individual Monitoring for External Exposure**





## **Participation in Intercomparison Exercises**

Organizer	Timeframe	Radiation	Dosimeter	Reference
IAEA	1988/90	Photon	WB	
IAEA	1996-98	Photon	WB	IAEA, TECDOC-1126, Vienna (1999)
EURADOS	1998/99	Beta, neutron, photon	EXT, WB	Bordy et al., <i>Radiat. Prot. Dosim.</i> <b>89</b> , 107 (2000)
IAEA	1999	Photon	WB	
IAEA	2003/04	Neutron, photon	WB	Cruz Suárez et al., Radiat. Prot. Dosim. 125, 61 (2000)
EURADOS/IAEA	2005	Beta, photon	APD	IAEA, TECDOC-1564, Vienna (2007)
EURADOS	2008	Photon	WB	EURADOS, Report 2012-01, Braunschweig (2012)
EURADOS	2009	Beta, photon	EXT	EURADOS, Report 2013-03, Braunschweig (2013)
EURADOS	2010	Photon	WB	EURADOS, Report 2015-01, Braunschweig (2015)
EURADOS	2012	Neutron	APD, WB	EURADOS, Report 2014-02, Braunschweig (2014)
EURADOS	2012	Photon	APD, WB	
EURADOS	2014	Photon	APD, WB	



#### **Conclusions and Recommendations**

- The tremendous effort of organizing and conducting the EURADOS IC2014ph is much appreciated
  - Special thanks to the IC Organization Group and the IC2014ph Coordinator
  - Online platform is regarded a major achievement
- Regular participation in intercomparison exercises is recognized as announced performance tests
  - Supports application for accreditation against ISO/IEC 17025
  - Builds up trust on customer side
- Adequate consideration of workplace exposure situations in proficiency tests and intercomparison exercises
  - Include mixed fields of different energies and types of radiation (neutron/photon)
    - → Availability of simulated workplace fields
  - Exclude radiation qualities that are not relevant for workplace fields



## Thank you for your kind attention!



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