

ICRM GSWG



Intermediate Meeting of the ICRM Gamma Spectrometry Working Group

April 18-19, 2024 - CIEMAT

Agenda – version 13-04-2024

Thursday 18 April, 2024

9:00 - 9:45 Virginia Peyres (CIEMAT, Spain) and Marie-Christine Lépy (LNHB, France)

Welcome and general information

9:45 – 11:00 General topics

9:45 - 10:30 Short presentations by partners

Confirmed: Australia (ANSTO), NIM (China), CER (Hungary) + **time available for additional presentations**

10:30 – 11:00 Break

11:00 - 11:15 Changhao Sun, Ming Zhang (NIM, China): *The Calibration Method of Gamma Spectrometer as Secondary Standard for Gaseous ²²²Rn Measurement*

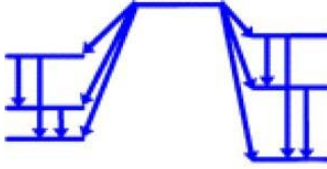
11:15 – 13:00 Action on Self attenuation corrective factors- Status and discussion

11:15 -11:30 Introduction (MCL)

11:30 - 11:45 Leen Verheyen (SCK-CEA, Belgium) *Routine measurement of mass attenuation coefficients for materials with unknown compositions by performing transmission measurement with a HPGe detector*

11:45 - 13:00 Other presentations (**time available for more speakers**) – discussion – next steps

13:00 - 14:30 Lunch



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14:30 – 16:00 New software, new facilities

14:30- 15:00 Toni Petrovič (JSI, Slovenia) *Training / demonstration on usage of The Decision-threshold and detection-limit calculator developed at JSI*

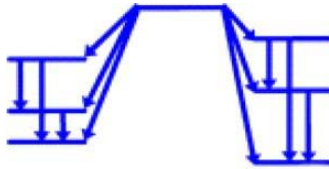
15:00-16:00 Jose Carlos Sáez (CIEMAT, Spain) *Application of the SuperMUM free release facility to the clearance of debris wastes containing Uranium*

Petr Kovar (CMI, Czech Republic), Lukas Skala (NUVIA, Czech Republic) *Pre-selection and free release measurement facility hardware and software for wastes released from nuclear installations*

16:00 – 16:30 Break

16:30-18:30 Visits (in parallel)

- Laboratories of CIEMAT
- Jose Carlos Sáez (CIEMAT, Spain): SuperMUM Facility : *Application of the SuperMUM free release facility to the clearance of debris wastes containing Uranium*



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Friday 19 April, 2024

8:30 – 9:30 Low-energy calibration

8:30 - 8:50 András Kocsonya (CER, Hungary) *Efficiency calibration of HPGe gamma-detectors in the low-energy range*

8:50 - 9:10 Marie-Christine Lépy (LNHB, France) *Lessons learned at LNHB*

9:10 - 9:30 Discussion – feedback from partners (**additional presentations welcome**)

9:30 - 10:00 EUROPEAN projects

9:30 - 9:45 Miguel Roteta (CIEMAT, Spain) *Overview of the project Metrology for Emerging Targeted Alpha Therapies*

9:45 - 10:00 Other information on on-going or future projects

10:00 - 10:30 **Invited talk: *Deep learning analysis of gamma-ray spectra for the identification of radionuclides*** (Geoffrey Daniel, CEA-DES)

10:30 - 11:00 Break

11:00 - 11:30: Action on Monte Carlo simulation – Presentation and final discussions

11:30 - 13:00 Discussion on next actions of the GSWG

General introduction: Octavian Sima (Univ. Bucharest, Romania)

Uncertainties associated with Monte Carlo simulation (Virginia Peyres)

Calculation of uncertainties using Monte Carlo simulation- Example of application

13:00 - 14:30 Lunch

14:30 - 15:00 Leticia Pibida (NIST, USA): *Status of new gamma-ray spectrometry facility at NIST and latest projects*

15:00 - 15:20 H. Persson (Mirion Technologies, USA) *Efficiency and activity uncertainty calculation with correlations in Genie 4.0*

15:20 – 15:40 Further discussion about correlations

15:40 End of the workshop