Workshop on the Use of Mass Spectrometry in Radionuclide Metrology: Opportunities and Challenges\(^1\)

Agenda

14-16 February 2023

10:00 – 13:00 UTC

(21:00 – 00:00 Sydney)

(11:00 – 14:00 Paris)

(05:00 – 08:00 Washington, DC)

Lisa Karam (NIST), CCRI(II) Chair    Mike Winchester (NIST), CCQM IAWG Chair

(all times UTC)

DAY 1

10:00     Welcome and Introductions (V Gressier, Steering Committee members)

10:10     Workshop Purpose and Goals (L Karam)

10:20     Using Mass Spec in Radionuclide Metrology: CCRI perspective (L Karam)

10:35     Measurement of Radioisotopes by Mass Spec: CCQM perspective (M Winchester)

10:45     Session 1a: Current activities using mass spec at measurement (metrology) laboratories, especially as applied in radioactivity measurements: PTB (J Eberhardt), IAEA (D Nakazawa), CEA/LANIE (H Isnard)

11:25     BREAK

11:40     Session 1b: Current activities using mass spec at measurement (metrology) laboratories, especially as applied in radioactivity measurements: NRC Canada (R Galea), NMIJ (S Asai), KRISS (K-S Lee)

12:20     Session 2: Discussion of the ADVANTAGES of using mass spec (need a summary slide to guide the discussion (Led by R Essex and B Russell)

13:00     END FIRST DAY

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\(^1\) This Workshop will be recorded for temporary usage by the Steering Committee; presentations will be recorded and posted on the BIPM YouTube channel at https://www.youtube.com/thebipm
DAY 2

10:00 Session 3: Discussion of the requirements for establishment of an SI-traceability chain to support radionuclide metrology (Led by R Essex and B Russell)

10:30 Session 4a: Enabling mass spec use in radionuclide metrology (TBD)

11:15 BREAK

11:30 Session 4b: Discussion of what is needed to enable mass spec as a viable tool in radionuclide metrology (Led by J Mann)

12:00 Session 5: Discussion on how radionuclide metrology impacts/could impact mass spectrometry (e.g., reference materials) (Led by B Russell and V Lorenco)

12:30 Future activities in the use of mass spec (including EURAMET project, NIST work supporting TES) (D Arnold, R Essex)

13:00 END SECOND DAY

DAY 3

10:00 Session 6a: Stakeholders and their needs: FDA (Zhichao Lin), CDC (J Button), DOE RESL (Radiological and Environmental Sciences Lab) (G Backstrom), ICRM (B Quintana)

11:00 Session 6b: Discussion (Led by J Mann)

11:30 BREAK

12:00 General discussion and summary (Led by L Karam and M Winchester)

12:30 Path forward and next actions (all)

13:00 Close of workshop