

Eurachem/CITAC Scientific Workshop

## Production of qualitative Reference Materials

Online Event

**19 September 2024**

### Workshop Topics

The number of reference materials (RMs), including certified reference materials (CRMs) characterized for qualitative properties, has steadily increased in recent years. In response, the Technical Committee for Reference Materials of the International Organization for Standardization, ISO/TC 334, developed ISO 33406 to provide guidance to reference material producers (RMPs) on producing qualitative RMs. ISO 33406 builds on the general requirements in ISO 17034:2016 for reference material producer (RMP) competence and offers specific guidance on value assignment, assessment of homogeneity and stability, statements of metrological traceability, and measurement uncertainty evaluation for RMs with qualitative property values.

#### The workshop aims to

- Inform on and discuss the new ISO guidance on the production of qualitative reference materials
- Introduce participants to the information on the estimation and reporting of uncertainties for qualitative results
- Share the experiences of several reference material producers with the production of qualitative reference materials in relation to the new ISO guidance

# Workshop program

12h00 - 12h10\* Opening and welcome (Angelique Botha)

## Session 1. Chair: Hendrik Emons

12h10 – 12h20 Introduction to EURACHEM and QAWG (Eugenia Totu)

12h20 – 12h30 Introduction to CITAC (Zoltan Mester)

12h30 – 12h40 Introduction to ISO/TC 334 - *Reference Materials* (Angelique Botha)

12h40 – 13h10 Guidance for the production of RMs with qualitative properties – An introduction to ISO 33406 (Stefanie Trapmann, EC-JRC)

13h10 – 13h40 Overview of the EURACHEM/CITAC Guide on uncertainty of qualitative analysis (Ricardo Bettencourt da Silva, Chair: EURACHEM QAWG)

13h40 – 14h00 Q&A (Moderator: Hendrik Emons)

14h00 - 14h15 Break

## Session 2. Chair: Marina Patriarca

14h15 – 14h45 Production of a meat species reference material (Steve Ellison, LGC)

14h45 – 15h15 Metrological challenges posed by reference materials delivering values of biological species for salmon and for the maidenhair tree (Antonio Possolo, NIST)

15h15 – 15h45 CRMs for testing of the presence/absence of *Staphylococcus aureus* enterotoxin A (SEA) in cheese: IRMM-359a-c (Reinhard Zeleny, EC-JRC)

15h45 – 16h00 Q&A (Moderator: Marina Patriarca)

16h00 CLOSE

\* All times in CEST (Paris, Brussels, Stockholm)

## Confirmed speakers

- Eugenia Totu, University "Politehnica" of Bucharest, Eurachem Chair
- Zoltan Mester, National Research Council (NRC), Canada. Chair of CITAC
- Angelique Botha, National Metrology Institute of South Africa (NMISA). Chair of ISO/TC 334 – Reference materials
- Stefanie Trapmann, EC-JRC, Geel, Belgium. Convenor of the WG for the development of ISO 33406 in ISO/TC 334
- Ricardo Bettencourt da Silva, University of Lisbon, Portugal. Chair of EURACHEM Qualitative Analysis WG. Vice-chair of CITAC
- Stephen Ellison, LGC, UK. Co-author of the EURACHEM/CITAC Guide on uncertainty of qualitative analysis
- Antonio Possolo, NIST, USA
- Reinhard Zeleny, EC-JRC, Geel Belgium

## Workshop Organising Committee

The workshop is organized under the auspices of the EURACHEM/CITAC Qualitative Analysis Working Group, acting as the Scientific Committee.

## Fees and Registration

The workshop will be free to attend, subject to registration.

Registration will be online only. Registration details will be announced a minimum of six weeks prior to the workshop.

For information on registration, see

<https://www.eurachem.org/QRM2024>