

**The European Commission's
science and knowledge service**

Joint Research Centre

You can register for one or more events at the link below:

<https://web.jrc.ec.europa.eu/rem/app.html?+-+%2Fsubscription-form-screen%2FmeetingId=94151#/subscription-form-screen/meetingId=96151>

The events are free of charge.

The deadline for registrations is 15 December 2017.

The number of participants is limited.

European Commission
Joint Research Centre (JRC)
Retieseweg 111
B-2440 Geel
Belgium

Contact: Mira Van de Lucht

Tel.: +32 (0)14 571 288

E-mail:
JRC-GEE-REM-COMPARISONS@ec.europa.eu
Mira.VAN-DE-LUCHT@ec.europa.eu (secretary)

JRC Mission

As the science and knowledge service of the European Commission, the Joint Research Centre's mission is to support EU policies with independent evidence throughout the whole policy cycle.



EU Science Hub
ec.europa.eu/jrc



@EU_ScienceHub



EU Science Hub - Joint Research Centre



Joint Research Centre



EU Science Hub

© European Union, 2017



European
Commission

**Workshop for the
participants in the 2017
EC Proficiency Test
&
Basic and advanced
courses on gamma-ray
spectrometry***

Directorate G – Nuclear
Safety & Security
JRC-Geel
30/01-02/02/2018



*Also open to gamma-spectrometry practitioners who did not participate in the PT

Joint
Research
Centre

Course on:
"Basics of gamma-ray spectrometry"

Organiser: Mikael Hult

1st day: 30 January 2018

08:15 **Pick up by bus at the hotels, Geel/Mol**

08:45 **Arrival at JRC-Geel**

09:00 **Morning session**

- The basic equation for gamma-ray spectrometry
- Detection efficiency
- Coincidence summing
- Instrumentation

Lunch at the JRC-Geel cafeteria

Afternoon session

- Weighing
- Uncertainties
- European legislation
- Practical examples

17:00 **End**

17:15 **Departure by bus to the hotels, Geel/Mol**

*Joint dinner in Geel at 19:00.

Workshop on:
"Measurement of gamma-ray emitting radionuclides in food and feed"

Follow-up to the 2017 EC Proficiency test in support of EURATOM Article 35 on radioactivity in feed

Organiser: Katarzyna Sobiech-Matura

2nd day: 31 January 2018

08:15 **Pick up by bus at the hotels, Geel/Mol**

08:45 **Arrival at the JRC-Geel**

09:00 **Morning session**

- Context
- Production of reference material
- Reference value determination
- Results

Lunch at the JRC-Geel cafeteria

Afternoon session

- Discussion/feedback
- Future exercises
- Presentations by participants

17:00 **End**

17:15 **Departure by bus to the hotels, Geel/Mol**

*Joint dinner in Geel at 19:00

Course on:
"Advanced gamma-ray spectrometry and auxiliary concept of radioactivity in food and feed"

Organiser: Mikael Hult

Katarzyna Sobiech-Matura

3rd day: 01 February 2018

08:15 **Pick up by bus at the hotels, Geel/Mol**

08:45 **Arrival at the JRC-Geel**

09:00 **Morning session**

- Pitfalls in gamma-spectrometry
- Reference material
- (Ultra) Low-level-aspects
- Angular correlations

Lunch at the JRC-Geel cafeteria

Afternoon session

- Total diet
- Uptake of radionuclides in the food chain
- Standards and standardisation organisations

17:00 **End**

17:15 **Departure by bus to the hotels, Geel/Mol**

4th day: 02 February 2018 (09:00 – 13:00)

Possibility to inscribe for laboratory visit at:

- Radionuclide Metrology Laboratories
- HADES underground laboratory
- Gelina 100 MV LINAC