

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.

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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.



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Joint Research Centre



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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
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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**

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**

*Joint dinner 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**

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

17:30 **End**

17:45 **Departure by bus to the hotels**

*Joint dinner 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**

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**

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