



# **Webinar on the First Week of a Nuclear Forensic Examination**

*Webinar Series on Nuclear Forensics in Global Nuclear Security*

**Organized by**

**The IAEA Division of Nuclear Security**

**26 February 2025**

**Time:**

**07:00 – 08:30, Vienna (Austria) Time**

**13:00 – 14:30 Vienna (Austria) Time**

**Duration: 1.5 hour**

**Information Sheet**

## Introduction

Nuclear forensics is the examination of nuclear or other radioactive material, or of evidence that is contaminated with radionuclides, in the context of legal proceedings under international or national law related to nuclear security. This field of specialisation supports national nuclear security measures and criminal investigations by providing information on the identity, origin and history of nuclear or other radioactive material found outside of regulatory control. It uses analytical techniques to generate data in the context of a criminal investigation. Capability in this specialised field can enhance national nuclear security programmes and can support the enforcement of a State's laws that prohibit the possession and use of nuclear or other radioactive material out of regulatory control.

The IAEA Nuclear Security Series (NSS) No. 2-G (Rev. 1), [Nuclear Forensics in Support of Investigations](#), provides detailed guidance on the role of nuclear forensics in the context of investigating various types of criminal or other unauthorized act involving nuclear or other radioactive material, and specifically describes the relevance of reporting at 24 hours, one week, and two months after sample receipt in the laboratory.

A [previous IAEA webinar](#) covered the activities typically taken within 24 hours of sample receipt. This webinar will focus on the activities taken within the first week of a nuclear forensic investigation. Technical and non-technical personnel interested in this webinar will gain information in developing and implementing nuclear forensic analytical capabilities within the context of a broader national nuclear forensic programme stemming from national legislation.

This will be the third webinar in the Webinar Series on Nuclear Forensics in Global Nuclear Security. The webinar series is designed to include an interactive and dynamic approach that encourage the audience to participate and respond in real-time. Future webinars in the series will feature “The First Two Months of a Nuclear Forensic Examination”, and other topics.

## Objectives

The objectives of the webinar are:

- To engage nuclear forensic practitioners and stakeholders from around the world in a simulated nuclear forensic investigation exercise.
- To present the IAEA's assistance programme for establishing a nuclear forensic capability in support of nuclear security.

## Target Audience

This webinar is targeted to Member States' nuclear security community including those working on the technical aspects of establishing and operating a national nuclear forensic capability in support of investigations of nuclear and other radioactive material out of regulatory control, as well as associated non-technical stakeholders, including but not limited to: law enforcement; prosecutors; laboratory managers; regulators; nuclear security professionals. The webinar is open to officials and nuclear security professionals from the above-mentioned organizations in Member States.

## Working Language(s)

English

## Registration

To register for the webinar series, including the Webinar on the First Week of a Nuclear Forensic Examination, please use this link: [Webinar Series Registration](#).

After the registration and acceptance of your participation, you will receive an electronic mail containing information on how to access the webinar by following a hyperlink to join the WebEx meeting or by calling in by phone.

You can test your ability to connect to a WebEx meeting at the following link: <https://www.webex.com/test-meeting.html#>. Please contact your IT department if the test fails.

For additional help regarding registration, please contact Ms Chelsea Willett, Division of Nuclear Security (Email: [C.Willett@iaea.org](mailto:C.Willett@iaea.org)).

## Webinar Agenda

### Opening remarks

Mr Andrei Apostol, *Nuclear Security Officer, Division of Nuclear Security, IAEA*

### Background on nuclear forensics in support of investigations

Ms Chelsea Willett, *Associate Nuclear Security Officer, Division of Nuclear Security, IAEA*

### Focus on the first week

Harinate Mungpayaban, *Head of Nuclear Security and Safeguards Section and the Nuclear Forensics Laboratory, Office of Atoms for Peace (OAP), Thailand*

Areerak Rueanngoen, *Nuclear Chemist, Senior Professional Level, OAP, Thailand*

Kalaya Changkrueng, *Nuclear Chemist, Professional Level, OAP, Thailand*

Paphon Phaukkachane, *Nuclear Chemist, Practitioner Level, OAP, Thailand*

Saowaluck Thong-in, *Radiation Physicist, Practitioner Level, OAP, Thailand*

Melasinee Laosuwan, *Nuclear Chemist, Practitioner Level, OAP, Thailand*

Ms Chelsea Willett, *Associate Nuclear Security Officer, Division of Nuclear Security, IAEA*

### Q&A and conclusion

Ms Chelsea Willett, *Associate Nuclear Security Officer, Division of Nuclear Security, IAEA*