



Webinar on Tritium in the Environment

Virtual Event

11–12 February 2026

Ref. No.: EVT2503534

Information Sheet

Introduction

Tritium is both a natural and an anthropogenic radionuclide. Tritium attracted considerable attention following its substantial production and release to the environment from over 500 atmospheric nuclear weapon tests of varying magnitude conducted since the early 1950s, and continues to attract interest in its production, releases and impacts associated with current and planned nuclear energy developments. Much of the relevant scientific activity currently focuses on the sources and properties of tritium, its applications, its changing inventory and behaviour in the environment, and the associated radiological risks.

In 2025, the International Atomic Energy Agency presented a new Technical Report Series publication 'Tritium in the Environment' (IAEA TRS-495), which incorporated contemporary information and scientific knowledge on the behaviour of tritium in various environmental compartments and media, with the aim of informing and addressing existing and future societal concerns relating to anthropogenic sources of tritium. This information serves to contextualize the possible impacts of power generation using nuclear fission and fusion technologies, nuclear fuel cycle activities, industrial and medical applications, accidental and deliberate releases, as well as military activities. This publication can serve as a technical reference on the radioecology of tritium, addressing current needs for updated and verified information, and to guide specialists and members of the public in understanding future environmental impacts.

Objectives

The online event serves to support outreach of the IAEA publication ‘Tritium in the environment’ (IAEA TRS-495). The event provides the floor for international experts and the IAEA staff who contributed to the development of the publication and provides a wider international audience with the opportunity to learn about the IAEA publication and to become familiar with its scope and content.

Target Audience

The event targets the same audience as the publication; that is, a broad spectrum of scientists, technical specialists as well as decision and policy makers, interested in modern scientific knowledge on the occurrence, behaviour and potential future impacts of tritium in the main compartments of the global environment.

Working Language(s)

English

Structure

To facilitate involvement of the global audience, the event is organized as two 2-hour long daily sessions to be held on 11 and 12 February 2026 at 13:00–15:00 CET each. Presentations at the event will address IAEA activities in the field of environmental radioactivity and highlight scientific and technical topics covered in specific chapters of the IAEA publication ‘Tritium in the environment’ (IAEA TRS-495).

Topics

See the webinar programme

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

Event Web Page

The webinar will be implemented as an online event, which will be recorded for the purpose of establishing an accurate record of the event, in line with the Agency's Personal Data and Privacy Policy. For any questions relating to the recording, you may contact the event organizer.

Registration of attendance can be done with the following links:

<https://iaea.webex.com/webappng/sites/iaea/webinar/webinarSeries/register/0e87fdc431f44d08a9ff8b803fea24bd>

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/EVT2503534