



The Abdus Salam  
International Centre  
for Theoretical Physics



# Joint ICTP-IAEA Workshop on Advanced Mobile Techniques for Radiation Monitoring and Mapping

## Description:

Mobile techniques for radiation monitoring are expected to greatly benefit nuclear scientists, engineers and radioprotection specialists in developing countries by allowing them to acquire radiological data using mobile techniques in their own countries.

## MORE DETAILS:

Radiological mapping using portable, carborne or airborne instrumentation is becoming an increasingly used tool for environmental control, detection of radioactive contamination in areas of interest, search for uncontrolled and reactive radiation sources, characterization of sites with exceeded NORMs and others. These technologies are characterised by high deployment flexibility, application operability and the speed of obtaining results for further decision-making. Aspects of radiation protection when using these technologies are no less important.

This workshop will allow the participants to gain knowledge about new radiation detectors suitable for field measurement, processing and analysis of radiological data and practical skills from real measurements in the field, with a focus on low-cost, robust and sustainable solutions.

## TOPICS:

- New models of scintillation detectors for gamma spectroscopy,
- Current backpack, mobile and UAV gamma spectroscopy instrumentation, ...
- Outlining field strategies for radionuclide concentration, dose rate, and surface contamination measurement,
- Principles of radiological data processing and postprocessing, data analyses, metrology,
- Practical field measurement using backpacks spectrometers,
- Demonstration of ground (UGV), and airborne (UAV) based instrumentation,
- UAV Photogrammetry and its use for radiological mapping,
- Use of "R-Tool" and other SW platforms for radiological map creation.



**14 - 18 October 2024**



**Trieste, Italy**



**Deadline:  
29 July 2024**

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## FURTHER INFORMATION:



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Web: <https://indico.ictp.it/event/10512/>

Female scientists are encouraged to apply.

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

