

International Symposium on Food Safety and Quality: Applications of Nuclear and Related Techniques - IAEA CN-222



Monday, November 10, 2014 - Thursday, November 13, 2014

IAEA, Vienna

Scientific Program

The symposium will focus on food safety and quality, considering protection of the integrity of the food supply chain as a holistic process.

The symposium will have the following objectives:

1. Bring together experts to present contemporary and novel applications, identify gaps and discuss future perspectives and opportunities;
2. Provide a forum for interdisciplinary networking between professionals from different backgrounds, including industry, national institutes, academia, and public and private bodies;
3. Facilitate a broad understanding of the topics involved; and
4. Promote peaceful applications of nuclear technologies.

The target audience includes:

1. Food scientists and laboratory analysts
2. Policy makers
3. Regulators
4. Food producers and the private sector
5. United Nations agencies such as: WHO, FAO, and UNIDO
6. Research institutes and universities

The sessions will cover the following topics:

Analytical technologies for food authentication, traceability and contaminant control

- Isotopic and elemental 'fingerprinting' for food traceability and authenticity
- Analytical methods to detect adulterants and contaminants in food
- Tests to detect and authenticate irradiated food

Food irradiation — new technological approaches and applications for reducing food waste and food losses, as well as improving food security and safety

- Shelf life extension
- Microbiological decontamination
- Insect disinfestation (quarantine treatment)

Climate change and other environmental and related factors that impact food safety and quality

- Integrated analytical techniques for food safety and environmental sustainability
- Applications of food irradiation and analytical techniques to moderate damages associated with climate change
- The use of radiotracers and stable isotopes for transfer studies and contaminant traceability

Chemometrics, statistical methods and predictive models in food analysis

Emerging threats to the integrity of the food supply chain and potential control techniques

International guidelines/standards/regulations for consumer protection and international trade

