

KEY DEADLINES

- 12 May 2014** Submission of abstract
(including Form B)
- 12 May 2014** Submission of grant
application (Form C)
- 14 July 2014** Notification of acceptance of
abstracts
- 19 December 2014** Submission of full paper
(only upon request by the
IAEA)

Any participant not submitting an abstract should submit Participation Form A through the appropriate authority as soon as possible.

ABSTRACT AND PAPER SUBMISSION

Abstracts and full papers must be submitted through the IAEA-INDICO web browser based file submission system. Instructions will be available on the symposium web page as of April 2014.

REGISTRATION

No registration fee is charged.

LANGUAGE

The conference will be held in English.

CONFERENCE SECRETARIAT

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Conference web page

[http://www-pub.iaea.org/iaeameetings/46092/
Food-Safety-and-Quality](http://www-pub.iaea.org/iaeameetings/46092/Food-Safety-and-Quality)

Please include reference number
IAEA-CN-222 in all communications.



International Symposium on Food Safety and Quality: Applications of Nuclear and Related Techniques

10–13 November 2014
Vienna, Austria

Organized by the



Joint FAO/IAEA Programme
Nuclear Techniques in Food and Agriculture

CN-222

BACKGROUND

Ensuring food supply integrity is of the utmost importance in relation to food security, safety and quality, and to consumer protection and international trade. Control measures throughout the entire food production and supply chain are essential to maintain and ensure this integrity. The fundamental purpose of the controls is to support food safety and quality, because both are essential and set the foundation for food security and consumer protection as well as facilitating both domestic and international trade.

The need for methods to monitor and verify food safety and quality is evidenced by the ever growing list of food product recalls due to contamination with, for example, Salmonella, Escherichia coli and Listeria, and incidents such as melamine, antibiotic and dioxin contamination. Food fraud (e.g. the adulteration of beef products with horse meat), the introduction of new technologies with potential food safety implications (e.g. nanotechnology) and environmental factors (e.g. climate change) further highlight the importance of continued refinement, development and innovation to improve food control measures.

Effective techniques are necessary to help assess and manage risks and protect the consumer. These include food irradiation to treat food directly, as well as other nuclear and related technologies for tracing food products in order to verify their provenance, or to detect and control contaminants. Continued research and innovation facilitate ongoing improvements in control strategies and the implementation of effective and efficient 'farm to fork' safety and quality assurance systems.

This symposium, organized by the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, will focus on food safety and quality, considering protection of the integrity of the food supply chain as a holistic process. In particular, it will:

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

TOPICS

Contributions are invited on the following topics:

1. Analytical technologies for food authentication, traceability and contaminant control, including:
 - 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.

2. Food irradiation – new technological approaches and applications for reducing food waste and food losses, as well as improving food security and safety, including:

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

3. Climate change and other environmental and related factors that impact food safety and quality, with a focus on the following areas:

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

4. Chemometrics, statistical methods and predictive models in food analysis.

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

6. International guidelines, standards and regulations for consumer protection and international trade.

AUDIENCE

Participation by scientists, laboratory analysts, policy makers, regulators, food producers and others concerned with food safety and quality, and the integrity of the food supply chain is encouraged.