

JAKARTA UTC+7	LONDON UTC-0	CALIFORNIA UTC-8	FRANCE UTC+1
TIMEZONE			
19:00	12:00	04:00	13:00
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01:00	18:00	10:00	19:00
01:30	18:30	10:30	19:30

DAY 1 Tuesday, March 9th



Welcome /30'
Introduction to IFIS, presentation of the 3-day program, the rationales and the goals.

*Alain Strasser (Aerial) - Mirjad Keka (Bühler Group)
Thomas Servais (IBA) - François Vander Stappen (IBA)*

Session introduction by the chairman /5'
Yves Henon

Global market situation /25'
A general overview of the current situation of food irradiation worldwide, and a focus on Asia.
Yves Henon

Current situation in the USA and South America /30'
The Growing Market for Ionizing Technologies in the Americas.
Suresh Pillai (Texas A&M)

Virtual coffee break /30'
Meetings with speakers
Suresh Pillai (Texas A&M) - Yves Henon

Testimonials: needs and challenges of the food industry

The struggles of water and heat in food sterilization - Opportunities for food irradiation /15'
Marc-Remo Kündig (Kündig)

Microbiological safety challenges of the spices and ingredients industry /15'
François Trévisan (Groupe Colin)

55 years applying nuclear techniques to agricultural sciences in Brazil /15'
Jorge de Souza (Abrafrutas)

Irradiation as a key success factor for the future of Brazilian fruits export /15'
Speaker Thiago Mastrangelo (CENA/USP)

Food Irradiation in Argentina /15'
Daniel A. Perticaro (IONICS S.A)

Virtual coffee break /15'
*Marc-Remo Kündig (Kündig) - François Trévisan (Groupe Colin)
Thiago Mastrangelo (CENA/USP) - Jorge de Souza (Abrafrutas)*

Session introduction by the chairman /5'
Alain Strasser (Aerial)

Food irradiation: challenges & limits /15'
What can be achieved with food irradiation?
Alain Strasser (Aerial)

Phytosanitary treatments /30'
Effect of phytosanitary irradiation of fresh fruit and vegetable quality.
Anuradha Prakash (Chapman University)

Surface decontamination (low energy E-beam) /15'
Reduction of microbial contamination on dry food ingredients by Low-energy electron beam.
Barbora Dubovcova (Bühler Group)

Decontamination with high energy radiations /15'
The Future outlook and practical considerations in the adoption of high-energy electron beam technology.
Suresh Pillai (Texas A&M)

Virtual coffee break /25'
Meetings with speakers
*Alain Strasser (Aerial) - Barbora Dubovcova (Bühler Group)
Anuradha Prakash (Chapman University) - Suresh Pillai (Texas A&M)*

Food sterilization /30'
Food irradiation applied to long shelf-life products
Celina Horak (International Atomic Energy Agency)

Packaging and combined treatments /15'
Active natural polymers and new combined treatments with irradiation.
Monique Lacroix (Canadian Irradiation Centre)

Wrap-up /30'
Discussion on the balance between positive and adverse effects.
Alain Strasser (Aerial) - Suresh Pillai (Texas A&M)

One to One meetings /45'

Workshops

Regulation



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DAY 2 Wednesday, March 10th



Workshop introduction by the chairman /15'
Florent Kuntz (Aerial)

Around coriander treated with low-energy electrons /30'
Bühler Group will present the low energy electron beam treatment (LEEB) of coriander for decontamination. Aerial will present examples of methodologies that can be implemented in sensory analysis and physicochemistry.
Dalal Werner (Aerial) Marie Hélène Desmonts (Aerial)

Panel - Discussion with experts /15'
Panel to answer questions after Workshop
*Marie Hélène Desmonts (Aerial) - Dalal Werner (Aerial)
Barbora Dubovcova (Bühler Group)
Heidi Maria Kotilainen (Bühler Group) - Mirjad Keka (Bühler Group)*

Around mangoes irradiation /30'
IBA and Aerial will present the process and dosimetry aspects of X-ray treatment of mangoes for phytosanitary purposes.
*François Vander Stappen (IBA) - Marie Hélène Desmonts (Aerial)
Dalal Werner (Aerial)*

Panel - Meeting with speakers /30'
Panel to answer questions after Workshop.
*François Vander Stappen (IBA) - Marie Hélène Desmonts (Aerial)
Dalal Werner (Aerial) - Florent Kuntz (Aerial)*

Virtual coffee break /30'
Meetings with speakers
*Marie Hélène Desmonts (Aerial) - Florent Kuntz (Aerial)
Dalal Werner (Aerial) - Barbora Dubovcova (Bühler Group)
Mirjad Keka (Bühler Group) - Heidi Maria Kotilainen (Bühler Group)*



Session introduction by the chairman /5'
Mirjad Keka (Bühler Group)

Overview of global regulations /45'
Carl Blackburn (AIEA)

Focus on European regulations /45'
Better regulations: evaluation by the European Commission of the current legislation
Jean-Baptiste Perrin (EU Com.)

Virtual coffee break /25'
Meetings with speakers
Carl Blackburn (AIEA) - Jean-Baptiste Perrin (EU Com.)

Focus on American regulations /15'
A deep insight on the regulations around food irradiation in the USA.
Lane Highbarger (FDA)

Focus on Asian regulations /15'
A deep insight on the regulations around food irradiation in Asia and specifically China.
Gao MeiXu (Chinese Academy of Agricultural Sciences)

Labeling impact /15'
Effect of labelling food products with varying information about food irradiation and related benefits on consumer's product acceptance
Kyösti Pennanen (VTT)

Panel - Perception from the Industry in Europe, America, Asia /60'
*François Trévisan (Groupe Colin) - Marc-Remo Kündig (Kündig)
Carl Blackburn (AIEA) - Kyösti Pennanen (VTT) - Eric Colin (Groupe Colin)
Gao MeiXu (Chinese Academy of Agricultural Sciences)
Jean-Baptiste Perrin (EU Com.) - Lane Highbarger (FDA)*

One to One meetings /45'

Dosimetry

Technical solutions

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Session introduction by the chairman /5'
Florent Kuntz (Aerial)

Food irradiation process control /30'
Tools and requirements for food irradiation process control.
Florent Kuntz (Aerial)

Monte Carlo simulations - High-energy /20'
Potential of Monte Carlo simulations. Study of the impact of density and spatial arrangement of products.
François Vander Stappen (IBA)

Monte Carlo simulations - Low-energy /20'
Challenges of simulations of low-energy electrons for surface irradiations.
Matthew Murdoch (Bühler Group)

Virtual coffee break /30'
Meeting with speakers
*Matthew Murdoch (Bühler Group) - Florent Kuntz (Aerial)
François Vander Stappen (IBA)*

A practical example of X-ray processing /15'
Phytosanitary X-ray processing: cold chain, dose mapping and process and facility controls
Barry Cox (Steritech) - Macdaragh O'Neill (Steritech)

Feedback on dose mappings of fruit pallets /15'
X-ray irradiation of full pallets of fruits. Dose mapping, methodology, and results.
François Vander Stappen (IBA)

Virtual coffee break /30'
Meet the speakers
*Barry Cox (Steritech) - Macdaragh O'Neill (Steritech)
Florent Kuntz (Aerial) - François Vander Stappen (IBA)*



Session introduction by the chairman /5'
Jeremy Brison (IBA Industrial)

Technical solutions: Low-energy electron beam (< 300 keV) /15'
Low-energy electron beam (LEEB) – A game-changing microbial reduction technology with minimal impact on quality.
Mirjad Keka (Bühler Group)

Technical solutions: High-energy electron beam (10 MeV) and X-rays (5-7 MeV) /30'
An overview of the technical solutions and typical cases of food irradiation.
Jeremy Brison (IBA Industrial)

Which technology for which application ? /40'
Panel discussion
*Mirjad Keka (Bühler Group) - Thomas Servais (IBA) - Alain Strasser (Aerial)
Marc-Remo Kündig (Kündig) - Jorge de Souza (Abrafrutas)
Yves Henon - Jeremy Brison (IBA Industrial)*

Virtual coffee break /30'
Meetings with speakers
*Mirjad Keka (Bühler Group) - Thomas Servais (IBA) - Alain Strasser (Aerial)
Marc-Remo Kündig (Kündig) - Jorge de Souza (Abrafrutas)
Yves Henon - Jeremy Brison (IBA Industrial)*

Global wrap-up /45'
Conclusions 5 practical actions to unlock
Alain Strasser (Aerial) - Thomas Servais (IBA) - Mirjad Keka (Bühler Group)

One to One meetings /90'

DAY 3 Thursday, March 11th

