

# Theoretical and Practical Dosimetry course for Radiation Processing

March 17 ➔ 21, 2025

Aerial CRT, 250 rue Laurent Fries, Parc d'Innovation  
67400 ILLKIRCH / France

This five-days course will provide training in both the theory and practical implementation of dosimetry for radiation processing through lectures, irradiations, measurements and their interpretation. Particular emphasis will be placed on medical device sterilization and the requirements of standard EN/ISO 11137, but the course will also be applicable to dosimetry for other radiation processing applications.

The practical aspects of the course will be carried out using the Aerial 10 MeV e-beam facility. Gamma and X-ray processing will be addressed in the theoretical parts of the course, and differences to e-beam will be highlighted.

**This course is limited to 12 participants.**

## Provisional program

### Day 1 (start at 9 am):

Radiation and Dosimetry Fundamentals  
Reference Dosimetry Systems  
Routine Dosimetry Systems  
Influence quantities and Uncertainties  
Practical session on dosimetry system calibration

### Day 2:

Practical session on dosimetry system calibration (continued)  
Overview of standards/guides (ISO 11137-1, -3, and -4, ASTM 51261, 52628, ...)  
Installation and Operational Qualification (IQ/OQ)  
Practical session on IQ/OQ

### Day 3:

Practical session on IQ/OQ (continued)  
Overview of ISO 11137-2 (Microbiology aspects)  
Impact of radiation dose on polymeric material properties  
Process Definition – Sterilisation Dose and Maximum Acceptable dose

### Day 4:

Performance Qualification (PQ)  
Practical session on Performance Qualification  
Establishing the process.

### Day 5 (finish at 2 pm):

Control and monitoring the process (ISO 11137-4)  
Maintaining Process Effectiveness

## Speakers

Mark Bailey Risø HDRL, DTU, Denmark  
Florent Kuntz Aerial CRT, France  
Peter Sharpe National Physical Laboratory, UK

Arne Miller Risø HDRL, DTU, Denmark  
Nicolas Ludwig Aerial CRT, France  
Marie-Hélène Desmonts Aerial CRT, France

## Location

The course will be held at the premises of Aerial CRT (Illkirch) and there are several lodging possibilities around the area:

### 7Hotel&Spa

550 Bd Sébastien Brant, Parc d'innovation  
67400 Illkirch

Phone: +33 (0)3 88 40 84 84

Mail: [commercial@7hotel.fr](mailto:commercial@7hotel.fr)

<http://www.7hotel.fr/>

⇒ *benefit from the Aerial rate by specifying 'Aerial dosimetry course' when booking*

### Aloft hotel

2 avenue du Rhin  
67100 Strasbourg

Phone: [+33-3-67707810](tel:+33-3-67707810)

Mail: [strasbourg-etoile@naoshotel.com](mailto:strasbourg-etoile@naoshotel.com)

<https://www.marriott.com/en-us/hotels/sxbal-aloft-strasbourg-etoile/overview>

### Hôtel Mercure Strasbourg Centre Gare

14-15 Place de la gare  
67000 Strasbourg

Phone: [+33 3 88 15 78 15](tel:+33-3-88-15-78-15)

Mail: [H2149@accor.com](mailto:H2149@accor.com)

<https://all.accor.com/hotel/2149/index.fr.shtml>

### Hôtel Hannong

15 rue du 22 Novembre  
67000 Strasbourg

Phone: +33 3 88 32 16 22

Mail: [info@hotel-hannong.com](mailto:info@hotel-hannong.com)

<https://www.hotel-hannong.com/>

## Registration Form

Title ..... First name ..... Family Name .....

Company ..... Address .....

Post Code ..... City ..... Country .....

Tel No ..... E-mail .....

**Fee is 3800 €** (+ VAT for French attendees), including course notes, refreshments and course dinner.

*NB: on receipt of registration form a confirmation of registration will be sent with payment instructions (Bank transfer or Credit card).*

## Course cancellation

- early cancellation (more than 4 weeks prior to the course): 100% of the registration fees will be reimbursed
- late cancellation (less than 4 weeks prior to the course): 50% of the registration fees will be reimbursed
- cancellation less than 2 weeks prior to the course will not be reimbursed but participant may be substituted
- cancellation by Aerial: 100% of the registration fees will be reimbursed

Please send completed form to **both**:

Florent KUNTZ / Aerial CRT

250 rue Laurent Fries

Parc d'innovation

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