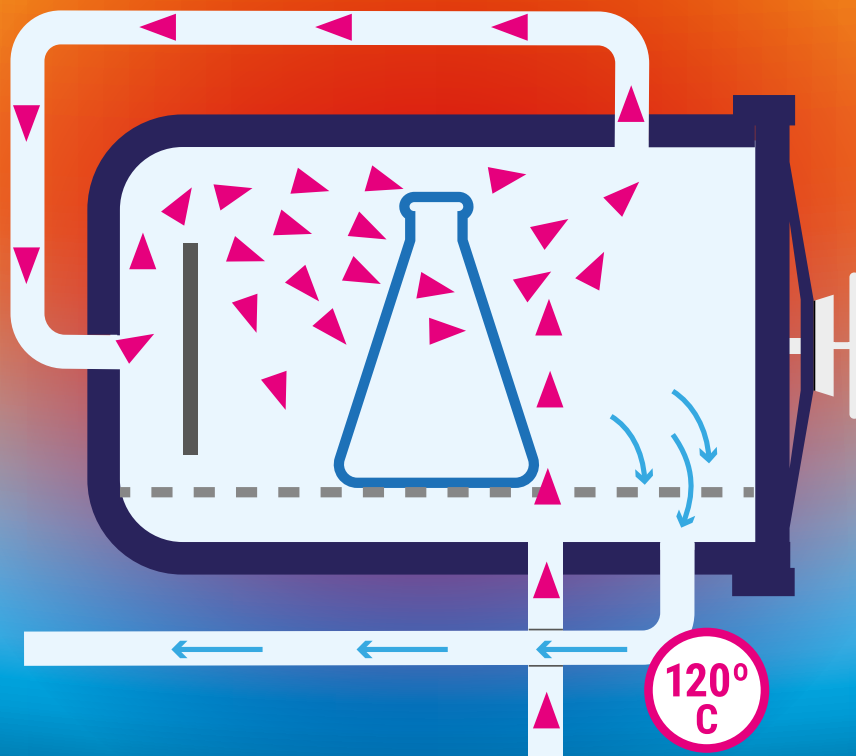


2020 PDA EUROPE TRAINING

# Understanding Sterilization



**18-20 FEBRUARY 2020**  
FEDEGARI AUTOCLAVI SPA  
ALBUZZANO, ITALY

## Overview

Three days fully dedicated to every sterilization aspect, from basic principles to validation activities. Starting from an overview of all sterilization methods, participants will have the opportunity to discover the secrets of moist-heat sterilization. Not only theoretical sessions, but also hands-on training with process machines for increasing your practical knowledge.

The course will be held at Fedegari's Tech Center, where participants will be able to discuss real-life problems while using Fedegari equipment to apply their new knowledge and capabilities. Finally, attendees will have the opportunity to share their experiences and challenges with experts in sterilization and contamination control.

### Attendees will learn how to:

- select the right machine according to the product to be treated
- create the perfect cycle for liquid and porous loads
- run biological and thermal validation

### Who Should Attend:

- Manufacturing Supervisors and Operators
- QA Managers
- QC Managers
- Facility Managers/Technicians
- Validation/Qualification Personnel
- Equipment Manufacturers
- Head of Production
- Process Engineers
- Process Developers

### Learning Objectives:

The participants:

- Have understood concepts of decontamination, disinfection and sterilization
- Have understood the principles of moist heat/dry heat sterilization
- Have an overview of other sterilization methods (gamma irradiation, E-Beam, EtO)
- Can calculate F and D values
- Have understood the different cycle requirements for various load types (solid, porous, liquid)
- Have understood approaches for qualification of equipment
- Have understood challenges and solutions for biological and chemical indicators

## Faculty



**Maria Luisa Bernuzzi**, *Manager R&D, Fedegari Group*

Graduated from University (Chemistry and Pharmaceutical Technology) at the University of Pavia, Maria Luisa started her career dealing with environmental analyses, and then moved to Chemical - Pharmaceutical industry. Being R&D manager and QC manager, in 2010, she also attended a Master degree about "Evaluation and control of the toxicological risk from environmental pollutants - legislation REACH, CLP - chemical risk assessment". Since 2011, Maria Luisa is R & D manager at Fedegari group: new technologies, a multidisciplinary approach at the Innovations, development of validation strategies and assessment of process efficacy, also with microbiological tests, are her main tasks. Specialties: Validation of equipment, Sterilization processes, Isolation technology in aseptic and containment applications, Decontamination.



**Annick Gillet**, *Technical Director EO Pharma, Sterigenics*

Annick Gillet has a biochemistry background and began her career at Sterigenics up to 10 years ago as Quality Manager for one of the biggest EO Sterigenics plant located in Belgium. She acted as the main contact during customers and regulatory inspections (FDA, European Authorities ...etc.). Annick also gained ten years of experience in Medical Device industry (wound dressings) in R&D, Quality, and consultancy. She also worked for about two years as SME in sterilization at Allergan (Pharmaceutical industry) in a site manufacturing terminally sterilized hormonal Intra Uterine device. As a Technical Director for 3 years, Annick currently leads ethylene oxide sterilization projects in different Sterigenics plants and is supporting the plants as technical expert with pharmaceutical project responsibilities.

**Tuesday, 18 February 2020**  
9:00 – 17:30

- 9:00 Introduction to Current Decontamination Methods**
- Distinguish disinfection, sterilization and decontamination
  - E- Beam
  - EtO
- 10:30 Coffee Break**
- 11:00 Introduction to Current Decontamination Methods (cont.)**
- $\gamma$ -Irradiation
  - Hydrogen Peroxide: Principle and application in Pharma, Equipment
  - Regulations
- 12:30 Lunch Break**
- 13:30 Plant Tour**
- 14:30 Coffee Break**
- 14:45 Hydrogen Peroxide Decontamination in Practice**
- Group session with practical examples of correct / wrong cycles
  - Correct placement of probes and indicators for various load types
- 17:30 End of Day 1**

**Wednesday, 19 February 2020**  
8:30 – 17:00

- 8:30 Wrap-up of Day 1 and Questions**
- 9:00 Moist-heat Sterilization Principles**
- Sterility assurance concept (PNSU or SAL), D-values, z-values,  $F_0$
- 10:30 Coffee Break**
- 11:00 Moist-heat Sterilization, Load Types and Process/Autoclave Selection**
- Steam sterilization: general concepts
  - Case studies
- 12:30 Lunch Break**
- 13:30 Moist-heat Sterilization, Load Types and Process/Autoclave Selection**
- Counterpressure cycles
  - Case studies
- 15:30 Coffee Break**
- 15:45 Practical session: How to create the right cycle for a specific load**
- 16:45 Q&A Session**
- 17:00 End of Day 2**

**Thursday, 20 February 2020**  
8:30 – 16:45

- 8:30 Wrap-up of Day 2 and Questions**
- 9:00 Biological Indicators and Validation – Parametric Release**
- 10:30 Coffee Break**
- 11:00 Temperature Mapping and Practical Sessions Common Loads**
- 12:30 Lunch Break**
- 13:30 Routinely and Operational Tests**
- Vacuum and pressure leak test
  - Bowie & Dick test
  - Equilibration time
  - Steam quality test
- 15:30 Coffee Break**
- 15:45 Variables Affecting Validation**
- 16:15 Q&A Session**
- 16:45 End of Day 3**

**TRAINING LOCATION**

Fedegari Group  
Fedegari Autoclavi s.p.a.  
SS 235 km 8  
27010 Albuzzano (PV), Italy

**CONTACT INFORMATION**

Registration Customer Care  
Tel: +49 30 436 55 08-10  
registration-europe@pda.org

Training Program Inquiries  
Elke von Laufenberg  
training-europe@pda.org

## 3 WAYS TO REGISTER

- 1 online: [pda.org/EU/Sterile2020](http://pda.org/EU/Sterile2020)
- 2 FAX: +49 30 4365508-66
- 3 Email: [registration-europe@pda.org](mailto:registration-europe@pda.org)

This PDF-file provides an automatic fill-in function. Your signature, however, is needed in writing.

GENERAL ADDRESS: PDA Europe gGmbH | Am Borsigturm 60 | 13507 Berlin, Germany | Tel: +49 30 436 55 08-0 | Fax: +49 30 436 55 08-66

### 1 Your Contact Information

If this form is an update to a previously submitted form, please check here.

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(Check only if you are substituting for a previously enrolled colleague; a nonmember substituting for member must pay the membership fee.)

### Information about Visa Matters

- All registrations which will involve visa matters will have to be submitted to PDA EU four weeks prior to the start of the event at the latest. For later registrations, PDA Europe will be unable to assist participants in any visa affairs.
- All costs incurring in connection with visa affairs shall be borne by registrants. (This applies in particular to costs for submitting documents by courier.)
- Potential participants must be clients of UPS shipping agency and submit their UPS customer reference number to PDA EU (together with their registration).

### 2 Registration

**Competition Clause:**  
 We ask you for your understanding that participants of competing companies cannot take part in the training course.

All fees given in Euro and excluding VAT (22 %)

Training Course (18-20 February 2019)	net
Day 1 + 2: Sterilization Overview and Practice <input type="checkbox"/>	1595
Day 3: Validation and Qualification <input type="checkbox"/>	895
Day 1 + 2 + 3: Sterilization – All You Need to Know <input type="checkbox"/>	2345

**Your consent is important. We manage your personal data responsibly.**  
 For more information, please visit [pda.org/privacy-policy](http://pda.org/privacy-policy)

**RESPONSE REQUIRED – By checking the box(es) below, I consent to:**

- My contact information (name, company, job title, city, state, country) being printed on the attendee list distributed at the event.
- PDA recording and/or photographing me and using those recordings and/or photographs in future PDA promotional and marketing materials.
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### 3 Payment Options

- By Credit Card**
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**Beneficiary:** PDA Europe gGmbH  
**IBAN:** DE73 1007 0024 0922 8735 00  
**BIC (SWIFT-Code):** DEUTDE33HAN  
**Bank Address:** Deutsche Bank, Welfenallee 3-7, D-13465 Berlin, Germany

**By Purchase Order** Purchase Order Number \_\_\_\_\_

**PDA Europe VAT I.D.:** DE254459362

**Billing Address:**  Same as contact information address above. If not, please send your billing address to: [registration-europe@pda.org](mailto:registration-europe@pda.org)

**Your Company VAT I.D.:** \_\_\_\_\_

This number starts by your country code with two characters  
 (example: PDA Europe's country code starts with: DE | followed by the number)

Date \_\_\_\_\_ Mandatory Signature \_\_\_\_\_

**CONFIRMATION:** Transmitting your filled-in registration form constitutes a binding application for the specific event. PDA Europe will send you a confirmation including payment details. **A legally binding contract is concluded once PDA Europe has sent a written invoice by mail to you.** A letter of confirmation will be sent to you within one week once payment has been received. You must have this written confirmation to be considered enrolled for this PDA event. PDA Europe reserves the right to deny access to anyone unable to provide written confirmation that all dues have been fully settled.  
**SUBSTITUTIONS:** If you are unable to attend, substitutions are welcome and can be made at any time, including on site at the prevailing rate. If you are registering as a substitute attendee, please indicate this on the registration form. Changes are free of charge until 2 weeks prior to the start of the event. After this two-weeks period, there will be a charge of € 100 excl. VAT per name change.  
**REFUNDS: Refund requests must be sent to PDA Europe.** If your written request is received on or before **19 January 2020** you will receive a full refund minus a 150 € excl. VAT handling fee. After that time, no refund or credit requests will be approved. If you are an unpaid registrant and do not attend the event, you are responsible for paying the registration fee. On-site registrants are not guaranteed to receive conference materials until all advanced registered attendees receive them. PDA Europe works PCI-Compliant. **EVENT CANCELLATION:** PDA reserves the right to modify the material or speakers/instructors without notice, or to cancel an event. If an event must be canceled, registrants will be notified by PDA as soon as possible and will receive a full refund. PDA will not be responsible for airfare penalties or other costs incurred due to cancellation. For more details, contact PDA at [registration-europe@pda.org](mailto:registration-europe@pda.org) or fax to +49 30 4365508-66.