



# **Cleaning Validation Summit 2022**

December 1-2, 2022, San Diego, CA

# Featuring Lessons Learned and Case Studies from Industry Experts:



STERIS



Kroeger-Fahnstock Avantor



Fred Ohsiek Ecolab



Neverovitch **BMS** 



**Dushyant** Varshney **Arcturus Therapeutics** 



Manix Eluhu Native Resource Group, Inc.



Cagnassola Pfizer



Meadows STERIS



**David Vincent** VTI Life Sciences



Ralph Basile Healthmark



Ramirez-Marrero



Koshy George Koshy & Assoc.



**Sharif Uddin** Rockline



Moussourakis Alconox



Stephen **Spiegelberg** Cambridge Polymer Group

Can you implement the best science-, risk-, and statistics-based approaches to cleaning validation? Today's regulators are now expecting ADE monographs and comprehensive risk assessments of your organization's cleaning validation protocols. Pharma Ed's Cleaning Validation Summit brings together leading industry experts to illuminate best practices and help you meet regulatory requirements.

# With Comprehensive Coverage On:

- Creating a Robust Cleaning Protocol and Report
- Global Validation and Transfers of mRNA Vaccines
- **Lifecycle Management Challenges in Cleaning Verification Analytical Methods**
- **How to Validate the Manual Cleaning Process**
- Manual Cleaning: Best Practices to Optimize the Process and **Qualify Your Operators**
- Addressing Concerns with Validated Legacy Cleaning Processes
- Answering Frequently Asked Questions from Cleaning Validation
- Risk-based Approaches to Cleaning Validation
- Meeting the New Cleaning Standards for Drugs and Med Devices
- How to Develop a Cleaning Program Based on Hygienic Design and Gap Analysis, Training and Continuous Monitoring
- Maintaining the Cleaning Validated State
- And More!

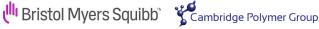
# With Representation From:



























**Contact: Kim Hubbard** khubbard@pharmaedresources.com or call (217) 721-5774

# Thursday, December 1, 2022

Sign-in & Complimentary Breakfast

8:00

7:00



Chairperson Beth Kroeger-Fahnestock's Welcome & Opening Remarks

8:05

#### Presentation Title Forthcoming

Beth Kroeger-Fahnestock, Director, New Biopharma Product Introduction, Avantor

Abstract forthcoming

**Processes** 

8:50

### **Creating a Robust Cleaning Protocol and Report**

Critical Issues—Validating Your Cleaning

Joe Cagnassola, Senior Validation Consultant, Pfizer

The key to success in any cleaning program is having a cleaning protocol and report that captures the critical steps and provides audit ready documentation. Understanding the cleaning process/program helps the users write polished documentation that stands up to the scrutiny of auditors. This presentation will go step by step through the inception of the cleaning project through the completion of the report. Understanding the process flow will help expedite the Validation time and ensure compliance to internal and external requirements. Learning Goals for this presentation include:

- User Requirements
- · Pre-Requisites to get started writing
- Understanding the Writing Process
- Execution and Report Writing

9:35

Midmorning Coffee and Networking Break

10:05

# Why Validate the Manual Cleaning Process?

Koshy George, President, Koshy & Associates **Consulting Services** 

At least some manual steps are involved in almost all cleaning processes. At some pharmaceutical facilities all cleaning processes are manual. Manual cleaning processes involves human intervention. This involvement can be intentionally systematic or at random. Manual cleaning processes are almost always fully operator controlled, while semi-automatic processes involve operator intervention at different stages of the process. The outcome of the manual cleaning processes. the success or failure of the process, depends upon the operator input. For a successful outcome, a deliberate and systematic approach by the operator to the cleaning process is required.

Operators must be trained and their training documented, which is a compliance requirement. Operators must follow a written standard operating procedure. SOPs for manual processes must be written in detail with no ambiguity so that any operator can follow the instructions without getting confused. The cleaning process must be repeatable with a consistent outcome. For manual cleaning process the main variable is the human input. Critical Cleaning Parameters (CCPs) such as TACT (Time, Action, Concentration, Temperature) must be monitored during manual cleaning processes also. It is a regulatory expectation that all processes in the pharmaceutical industry are validated and the processes are repeatable, consistent and meets certain predetermined limits. Manual cleaning processes are validatable despite claims from some people that manual cleaning processes are not validatable. This presentation will cover points to consider for successful manual cleaning processes and explain why manual cleaning processes must be validated.

10:50

### Improving Cleaning Performance and **Prospective Future Performance**

Walid El Azab, Senior Manager, Technical Services, STERIS Corporation

Through some examples, the presentation discusses the elements to consider in improving cleaning performance, such as laboratory studies to design cleaning cycles, on-site observation, and data analysis to identify the drivers for cleaning improvement. Finally, how to use statistical analysis to confirm if the improvements made were successful.

**Key takeaways:** 

- Understand the elements to analyze or monitor to be able to improve cleaning performance
- Understand basic statistics to analyze retrospectively and prospective potential cleaning performance
- Share some case studies

# Spotlight on Manual Cleaning Methods

11:35

### Manual/COP Cleaning: Methods and Validation

Michael Moussourakis, Senior Director, Strategic Affairs, Alconox

A brief introduction will be presented reinforcing general cleaning concepts, chemistry and detergency. Aqueous detergent cleaning methods will be reviewed

with a detailed focus on manual and clean-out-of-place cleaning methods, associated pros and cons, and equipment. The necessary pre and post cleaning steps, vital to any cleaning application are presented as a lifestyle approach. Their goal being to facilitate cleaning validation programs. This includes needs for focus on set up and procedures before cleaning steps are introduced, during the cleaning process itself, and methods for good practice in post cleaning—long after the final rinse has been completed. Finally, a recent manual cleaning validation

of a pharmaceutical product is presented as a case study and reviewed. The requirements, results and procedure followed. The residue detection methods chosen for both residual product and detergent will be discussed.

12:20 Complimentary Lunch

1:35

2:20

3:05

3:35

Manual Cleaning: Best Practices to Optimize the Process and Qualify Your Operators

Maria E. Ramirez-Marrero, Quality Assurance Specialist, Microsize, Inc.

Manual cleaning is a variable process that requires detailed steps to guarantee a successful validation. Once the process is validated you need to qualify your operators in order to obtain acceptable results that compare to the ones obtained during the validation process.

# Spotlight on Visual Inspection

Application and Qualification of Visual Inspection

Ralph J. Basile, Vice President of Marketing & Regulatory Affairs, Healthmark

Failure to properly and effectively visually inspect clinically-used medical devices, prior to their use on the next patient, has been directly linked to poor patient outcomes, including death. A summary of these events, as documented in the FDA Maude Database, will be reviewed. Measures that can and should be taken to avoid these unfortunate events will then be presented. This will include discussion of industry standards and research that supports these measures

Afternoon Networking Break

What is That Residue? When Visual Assessment and TOC is Not Enough in Cleaning Testing

Stephen Spiegelberg, President, Cambridge Polymer Group

Cleaning validation activities often involve nonspecific qualitative and quantitative assessment of residues using total organic carbon, weighing of residue, and visual assessment. In most cases, these levels of analysis are sufficient to establish consistency in cleaning operations. When cleaning operations drift out of control, or a downstream failure occurs, specificity in residue identification and quantitation is sometimes needed to determine the source of the issue. In this presentation, case studies of cleaning operations that required additional analysis are presented, with analytical techniques selected to help identify issues with cleaning operations as part of a root cause investigation.

# Critical Issues—Validated Legacy Cleaning Processes: Challenges and Opportunities

4:20 Concerns with Validated Legacy Cleaning Processes



Fred Ohsiek, Senior Global Technical Manager, Life Science (Cleaning Validation), Ecolab

Dated cleaning validation packages can have hidden or known compliance risks. In this presentation, different areas of the validation process will be dissected (dated practices and rationales, documentation practices, product and equipment grouping, and use of risk-based decision). Even newer validations (5 years or less) may have compliance risks. In this presentation, we will examine:

- Quick review of regulatory guidelines for cleaning validation
- Legacy cleaning validation concerns and pitfalls
- Explore the benefits for revalidating legacy cleaning processes
- Tour and examine the revalidation process

5:05 Happy Hour Mixer

Join us in the lounge for informal networking. Complimentary appetizers provided.

Friday, December 2

7:30 Complimentary Breakfast

8:15 Global Validation and Transfers of mRNA Vaccines



9:00

Dushyant Varshney, CTO, Arcturus Therapeutics

**Abstract forthcoming** 

Spotlight on Lifecycle Management & Analytical Methods

Analytical Methods: Frequently Asked Questions from Cleaning Validation Teams Around the World



Brook Meadows, Senior Technical Service Associate, STERIS

Ever feel locked into an ultra-strict pharma guidance document with nowhere to turn as regards your cleaning agents? Why is the HPLC marker in the method not the most toxic component, in fact, not even the active? What is the justification? Ever need a lower limit of quantitation (LOQ) than what's given in the CV method you're handed? Why do methods have one analyte for rinse water and another for swabs? Ever request a purified reference standard for your CV only to discover there is none? These are just a few of the many questions posed by Cleaning Validation Teams at Pharma and BioPharma companies around the world. Professionals who are highly trained experts in the manufacture and analysis of drugs and biologics are often recruited to fill roles in the CV Team. Yet what's at stake in the manufacture and analysis of pharmaceuticals and biologics is not exactly the same as what's at stake in the analysis of the cleaning agent. A shift in perspective is sometimes just what's needed to unlock the CV conundrums and ease the way forward while adding efficiency to the timeline. If you've ever wondered what's on the minds of your CV colleagues and the kinds of questions they are asking, then this presentation is your chance to find out.

Midmorning Coffee & Networking Break

9:45

10:15

# Lifecycle Management Challenges in Cleaning Verification Analytical Methods



Equipment Cleaning is a critical GMP element of the Manufacturing Process. It ensures quality and safety of future batches. Cleaning validation/verification is a measurement of the effectiveness of the cleaning process.

In this presentation we will go over advantages and challenges of specific and nonspecific analytical methods based on risk assessment of the residual product.

Case studies, training and qualification programs will also be discussed.

# 11:00 Steps to a Successful Cleaning Cycle Development Program

Manix Eluhu, Validation Engineer, Native Resource Group, Inc.

I'll outline the cleaning validation needs and strategy for product contact manufacturing equipment and parts used to formulate, transfer, and fill products for those who are just getting started with cleaning validation. This presentation will provide a framework for validating product contact equipment cleaning operations. I'll also go through the processes necessary to guarantee that the product contact equipment and parts used in manufacturing are properly cleaned in order to comply with current Good Manufacturing Practices (cGMP).

11:45 Complimentary Lunch

#### Steps to a Successful Cleaning Cycle Development and Validation Applying a Life Cycle Approach

David Vincent, CSO, VTI Life Sciences



1:00

Participants will benefit from surveying a hands-on approach to support the life science industry in the development and establishment of compliant cleaning programs that meet or exceed regulatory expectations. Key topics to be covered include:

- Current Regulatory Expectations
- Life Cycle Approach to Cleaning Validation (FDA 3 Stage Approach)
- How to Gain Cleaning Process Understanding by utilizing Risk Based Approach
- CIP and Automated Systems Design and Qualification of Equipment
- Sprayball Coverage Studies
- Washout Curve
- Holdup Volume, Acceptable Flow
- Dead legs
- Cleaning Equipment Characterization Report
- Cleaning Cycle Development and Validation
- Sampling and Testing Requirements (Bioburden/ Endotoxin)
- Continued/Ongoing Cleaning Process Verification
- Tools That Enable Effective and Efficient Validation
- Change Management/Process Monitoring Stage

**Regulatory Spotlight—Meeting the New Cleaning Standards for Drugs and Med Devices** 

# 1:45 Cleaning Standards Covering Both Drugs and Devices

Ralph J. Basile, Vice President of Marketing & Regulatory Affairs, Healthmark

This year, 1 new AAMI Standard, 1 new ISO standard and 1 updated ISO standard on processing of clinical medical devices have published. ANSI/AAMI ST98 is the first standard to establish requirements for validation of cleaning instructions supplied by manufacturers of medical devices to their healthcare customers. The standard sets very clear requirements for how to develop and test the steps for cleaning their medical device prior to use on the next patient. An overview of this important new U.S. national standard will be provided. Also of significance, ISO 17664, has been broken into two parts. Part 1 is a slight update to the original document published in 2017, and provides requirements for the information on processing critical and semicritical medical devices that medical device manufacturers are to provide to healthcare facilities. Part 2 is brand new and provides similar requirements for noncritical devices that are not intended to be sterilized. A brief review of both documents will be presented.

Afternoon Break

Develop a Cleaning Program Based on Hygienic Design and Gap Analysis, Training and Continuous Monitoring

Sharif Uddin, Senior Engineer, Process Cleaning, Rockline Industries

To perform a successful cleaning and sanitation program, equipment and piping systems need to be designed in such a way, so it could be cleanable to an acceptable level. It is important for the design and quality engineers to have complete understanding of the equipment design before making any decision on the cleaning. The presentation will focus on three key areas which each facility needs to understand to perform robust cleaning and validation: importance of training required in hygienic design, understanding and practice of hygienic design principles during equipment and CIP systems design and continuous monitoring of CIP systems.

3:30 Maintaining the Cleaning Validated State

Fred Ohsiek, Senior Global Technical Manager,
Life Science (Cleaning Validation), Ecolab

The frequency and the type of testing needed for routine monitoring is not easily determined. Once the monitoring program is established, determining the best rationale for reducing the frequency is also difficult. In this presentation, a robust science and risk-based method will not only determine the frequency, but also how to reduce it.

- Quick review of FDA 2011 Continued Process Verification (CPV) regulatory guidelines
- In-depth discussion on periodic review, CPV, and dated validation packages
- Risk-Based approach to Continued Process Verification
- Determining and reducing routine monitoring frequency
- Routine monitoring risk assessment case study

4:15 Close of Program





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### About your conference destination:

Located in Mission Valley, the Marriott San Diego Mission Valley is the ideal gateway to experience the best of San Diego. Enjoy easy access to San Diego State University, SDCCU Stadium (formerly Qualcomm), Old Town, or hop on the Rio Vista Trolley and explore Mission Bay, SeaWorld, and Downtown San Diego including PETCO and Gaslamp District. See our refreshed meeting spaces including our all-new event lawn ideal for memorable outdoor gatherings. Enjoy a host of amenities and services, from views and casual dining at DEN to our fully equipped fitness center and outdoor pool with a waterfall. Well-appointed guest rooms and spacious suites offer 55" SMART TV's, high-speed Internet and balconies and are perfect for groups visiting San Diego. You will appreciate our Mission Valley hotel's unmatched charm and sophistication.

# **Registration Information**

Register for the conference using one of three options:

Online: www.pharmaedresources.com Phone: (217) 721-5774

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VENUE INCORNATION.			

# VENUE INFORMATION:

Dates: December 1–2, 2022

Venue: Marriott San Diego Mission Valley

**Venue Address:** 8757 Rio San Diego Drive

San Diego, CA 92108

Venue Phone: (619) 692-3800

# Please register me for:

# **Cleaning Validation Summit, 2022**

Early Bird (by September 1)	\$1,395	
Standard Registration	\$1,595	
Call for government, academic, or non-profit rate		

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To pay by check, please provide a purchase order below. Please note that all payments must be received five (5) days prior to the conference to ensure space. Attendees will not be admitted to the conference without full payment.

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#### PLEASE NOTE:

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