2nd Annual Summit
Visual Inspection in Parenterals

online | September 28th– 29th, 2026

Key Speakers:

3:30pm IST / 12:00pm CET / 6:00am EST

Chiara Sinito, CH
Head of AVI
WILCO AG

Bram Keymolen, BE
Co-Founder | Compliance Director
eyetec

Robin Van Mechelen, BE
Proces Engineer Visual Inspection
eyetec

Brian Turnquist, USA
Chief Technology Officer
Boon Logic

Massimo Frasson, IT
CEO & General Manager
Brevetti CEA s.p.a

Srivalli Telikepalli, USA
Research Chemist
National Institute of Standards and Technology

Elisabeth Wagner, CH
Senior Lead Visual Inspection
CSL Behring

2nd Annual Summit

Visual Inspection in Parenterals

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Conference Overview

The **Visual Inspection** in **Parenterals** summit is a premier event that brings together experts from the pharmaceutical and biotechnology sectors to explore best practices, technologies and advancements in the visual inspection of parenteral products.

In 2026 the industry is moving beyond simple detection toward a holistic life-cycle approach. This conference will cover a wide range of topics, from the latest innovations in Deep Learning and Generative AI to the integration of visual inspection into broader Contamination Control Strategies (CCS). Attendees will gain insights into cutting-edge technologies, evolving GMP Annex 1 requirements and clinical case studies aimed at enhancing the accuracy of inspections while ensuring patient safety.

Who Is It For?

The event covers key areas of product quality, regulatory compliance and manufacturing processes. The following departments would benefit from the insights shared at the conference:

- Quality Control (QC)
- Quality Assurance (QA)
- Regulatory Affairs
- Manufacturing/Production
- Research and Development (R&D)
- Engineering and Validation
- Packaging
- Supply Chain
- Product Development
- Microbiology
- Clinical Affairs
- Technical Operations

We Will Talk About

- Regulatory & CCS: Aligning visual inspection with Annex 1 and global compendial requirements.
- The Digital Shift: Moving from manual processes to AI-driven and paperless systems.
- Management over Detection: Holistic strategies for particulate matter and characterization.
- Clinical Relevance: Determining the patient safety risks of different defect categories.
- Operational Excellence: Reducing false rejects and improving yield through advanced validation.
- Complex Products: Inspection challenges for autoinjectors, cell therapies and BFS.
- Techniques for visual inspection of container integrity in parenterals.
- Challenges of visual inspection for suspensions, emulsions and BFS parenterals.

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September 28th, 2026

12:00 - 12:05 Registration

12:05 - 12:10 Opening Address from the Organizer

Strategy, AI, and Regulation

12:10 - 12:40

Massimo Frasson, IT
CEO & General Manager
Brevetti CEA s.p.a

brevetti cea

EU GMP Annex 22 (Draft 2025): A Compliance Framework in Inspection

- Annex 22 as the foundation for reliable, scalable, and inspectable visual systems.
- Static Model. • Explainability. • Risk-based AI Adoption.
- Quality of Data. • The Labeling Challenge.
- Synthetic Defect Injection. • AI-Assisted Annotation.
- Benefits: Increased Annotation Efficiency. • Conclusions.

12:40 - 12:50 Short Break

12:50- 13:20

Digitalization and the Lifecycle Approach

- Moving toward paperless documentation and digital data integrity (ALCOA+).
- Design, validation and ongoing monitoring stages for consistent lifecycle performance.

13:20 - 13:30 Short Break

13:30 - 14:00

Risk-Based Validation and Sustainability

- Importance of a risk-based approach in validation to minimize downtime.
- Reducing product waste and glass loss through optimized inspection sensitivity.

14:00 - 14:10 Short Break

14:10 - 14:40

Implementation of Automatic Visual Inspection (AVI)

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14:40 - 15:00 Break

15:00 - 15:30

Inspector Training: The Human-Machine Interface

- Modern qualification processes and the use of Virtual Reality (VR) for training.
- Managing human factors: Fatigue, cognitive bias and physiological limits.

15:30 - 15:40 Short Break

15:40 - 16:10

Elisabeth Wagner, CH
Senior Lead Visual Inspection
CSL Behring

CSL Behring

Two-Stage Inspection and Rejection Strategies

- Using two-stage systems to improve defect detection and reduce the risk of overlooked defects.
- Analyzing the «grey zone» to minimize false rejections and maximize yield.

16:10 - 16:20 Short Break

16:20 - 16:50

Robin Van Mechelen, BE
Proces Engineer Visual Inspection
eyetec

eyetec
compliant pharma solutions

AI and Generative Data for Visual Inspection

- Introduction to Deep Learning (DL) and the use of Generative AI for synthetic image training.
- Overcoming validation challenges for AI-based defect classification.

16:50 - 17:00 Organizer's closing remarks and end of day one

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September 29th, 2026

12:00 - 12:05 Registration

12:05 - 12:10 Opening Address from the Organizer

Particles, Integrity and Clinical Risk

12:10 - 12:40

Clinical Risk and Defect Classifications

- Categorizing defects based on patient safety risk rather than just appearance.
- Standardizing classifications (critical, major, minor) across global manufacturing sites.

12:40 - 12:50 Short Break

12:50- 13:20

Bram Keymolen, BE
Co-Founder | Compliance Director
eyetec

Holistic Particulate Matter Management

- Main sources of particlulate matter in manufacturing of sterile product (with real life examples).
- Strategies for particulate matter monitoring.
- Strategies for particulate matter avoidance.
- Product lifecycle management: linking identification to qualification.

13:20 - 13:30 Short Break

13:30 - 14:00

Srivalli Telikepalli, USA
Research Chemist
NIST

Development of New Visible Particle Reference Material for Biopharmaceutical Advancement (tentative)

- Particle Based Reference Materials in Development.
- Need for Visible Particle Reference Material.
- Development and Applications of Visible Particle Reference Material.

14:00 - 14:10 Short Break

14:10 - 14:40

Container-Closure Integrity (CCI) and Leak Detection

- Techniques for visual and instrumental leak detection in syringes, vials and ampoules.
- Integrating CCI testing with visual inspection for 100% product assurance.

14:40 - 15:00 Break

15:00 - 15:30

Brian Turnquist, USA
Chief Technology Officer
Boon Logic

Automated Inspection of Difficult-to-Inspect Products

- Why DIPs are a challenge for AVI.
- Human cognition and defect detection in DIPs.
- Applying high-dimensional unsupervised machine learning to replicate human visual cognition and inspect DIPs.

15:30 - 15:40 Short Break

15:40 - 16:10

Test Set Creation and Standard Reference Kits

- Best practices for creating and maintaining stable, reproducible defective test sets.
- Using 3D printing and precision seeding to simulate realistic defects.

16:10 - 16:20 Short Break

16:20 - 16:50

The Modern Knapp Test: Sensitivity and Limits

- Applications of the Knapp test for comparing human vs. machine performance.
- Determining the «threshold of detection» and the future of Digital Twins in sensitivity testing.

16:50 - 17:00 Organizer's closing remarks and end of day two

Speakers Biographies

September 28th– 29th, 2026

Chiara Sinito
Head of AVI
WILCO AG

Dr. Chiara Sinito obtained her PhD in Physics at the University of Bordeaux, where she specialized in the magneto-photoluminescence spectroscopy of individual semiconductor nanocrystals. As a Post-doctoral Researcher in France and in Germany, she continued to study the optical properties of semiconductor nanostructures for the realization of advanced semiconductor devices. As an Application Engineer at the Swiss company Attolight AG, she applied cathodoluminescence to the failure analysis of semiconductor-based devices for industrial customers. Since 2021 she leads the Automated Visual Inspection team at the Swiss company WILCO AG. With a team of research engineers, she develops new solutions in machine vision for the quality control of pharmaceutical products and medical devices, thus improving the manufacturing processes in the pharmaceutical industry. She is co-leader of the A3P (Association Produits Propres et Parénteraux) interest group on Visual Inspection, where she contributes to the harmonization of Visual Inspection practice across the pharmaceutical industry.

Brian Turnquist
Chief Technology Officer
Boon Logic

Brian Turnquist is CTO of Minneapolis AI company, Boon Logic, where he directs Boon's technical roadmap, identifies differentiated application areas for Boon's novel unsupervised machine learning technology, and develops those with his team into transformational applications in diverse fields such as pharmaceutical visual inspection, grid edge analytics, predictive analytics, cyber intrusion detection, and cognitive electronic warfare.
Turnquist's PhD is in Mathematics from the University of Maryland. Prior to joining Boon Logic, he spent 20 years in neuroscience at Johns Hopkins University and was a visiting researcher at the University of Nürnberg and University of Heidelberg. Turnquist has fifteen refereed publications in neuroscience and mathematics.

Srivalli Telikepalli
Research Chemist
National Institute of Standards and Technology

Dr. Srivalli Telikepalli is a recognized expert in biopharmaceutical analytical science with more than 10 years of experience specializing in protein aggregation, particle characterization, and monoclonal antibody stability. As a Research Chemist at National Institute of Standards and Technology, she has led the development of several industry-first reference materials, including the first subvisible and visible protein-like particle standards, and supported the NIST monoclonal antibody reference material, which are now widely used across the biopharmaceutical industry for analytical benchmarking and quality control. Dr. Telikepalli currently leads major cross-industry collaborations involving global biopharmaceutical companies to advance standards for protein aggregation and visual inspection methodologies, helping shape emerging regulatory and industry best practices. An internationally invited speaker and thought leader in biologics stability and analytical characterization, she has authored numerous high-impact publications and received multiple honors from the U.S. Department of Commerce for her contributions to measurement science and biopharmaceutical standards.

Bram Keymolen
Co-Founder | Compliance Director
eyetec

Bram Keymolen, a Qualified Person with a master's degree in Industrial Pharmacy from the University of Antwerp, brings over 20 years of GMP experience in roles spanning qualification, validation, QA, and QP. His extensive background includes key positions in biotech companies, startups, corporations, and university hospitals, with a strong focus on sterile production.
In 2011, Bram founded eyetec, specializing in Visual Inspection (VI) and Container Closure Integrity Testing (CCIT) under GMP standards. Together with Gunther Coenen, his co-founder at eyetec, who has a strong background in pharmaceutical manufacturing, they offer a unique blend of production, engineering, and compliance expertise.
A key differentiator of eyetec is its expertise in developing specialized Visual Inspection Test Sets, including Particle Test Samples (PTS) and container defects, designed to validate both manual and automated inspection systems. Furthermore, eyetec offers CCIT samples, known as Leak Test Samples (LTS), which serve as certified positive controls with precisely calibrated leak defects. eyetec also sells GMP and lab equipment and provides critical after-sales support, including maintenance, and calibration for GMP and lab equipment.

Massimo Frasson
CEO & General Manager
Brevetti CEA s.p.a

Massimo Frasson holds a master's degree in mechanical engineering and has a successful career in the automation industry. He began his journey with Brevetti C.E.A. in 2000 as the Mechanic Systems Design Manager and progressively assumed more significant roles. In 2007, he played a pivotal role in Brevetti C.E.A.'s restructuring and the introduction of new vision technologies. Simultaneously, he led a department focused on pharmaceutical process analysis using artificial vision systems and neural algorithms.
In 2010, Mr. Massimo Frasson took on the responsibility for the entire operations process and was appointed General Manager in February 2014. His leadership and dedication led to his promotion to CEO in 2019. Today, he continues to drive Brevetti C.E.A.'s growth and development with his extensive industry knowledge and commitment to excellence.

Elisabeth Wagner
Senior Lead Visual Inspection
CSL Behring

Elisabeth Wagner is the Senior Lead Visual Inspection at CSL Behring. She joined the company in 2017 and held roles of increasing responsibility in visual inspection.
Elisabeth was involved in the qualification of an automated inspection system for Albumin in molded glass containers and led the production team before the ramp-up to routine production. In 2021, she moved to the global function.
As the business process owner for this area, Elisabeth is involved in internal and external tech transfer projects and leading the global visual inspection program within the CSL network. She is the main responsible for standardization of processes and implementing the best practice at all sites.

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	Digital certificate, List of participants.	Digital certificate, List of participants.	List of participants.
	Recording of 2 days event sessions, PDF.	Recording of 1 day event sessions, PDF.	PDF presentations.

1st Attendee

Full Name:
Job Title:
Company:
Country: Phone:
Email:

2nd Attendee

Full Name:
Job Title:
Company:
Country: Phone:
Email:

3rd Attendee

Full Name:
Job Title:
Company:
Country: Phone:
Email:

4th Attendee

Full Name:
Job Title:
Company:
Country: Phone:
Email:

SEND

INVOICE DETAILS

Full Name:
Job Title:
Company:
Country: City:
Address:
Postcode: Phone:
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