



ISPE
CONFERENCE AND EXHIBITION

Singapore
Affiliate

28 - 30 AUG 2024 | SUNTEC SINGAPORE

Re-imagining a Sustainable Pharma

EVENT GUIDE

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2024 CONFERENCE CHAIR'S MESSAGE

Dear industry colleagues

On behalf of the Planning Committee, I'm delighted to invite you to ISPE Singapore Affiliate's 2024 Conference & Exhibition.

We look forward to meeting you and fellow professionals in the pharmaceutical industry this August. Our annual event has grown over the years to become a great gathering place to gain and exchange insights, as well as to have some fun!

This year's theme revolves around "**Re-imagining A Sustainable Pharma**". How is our industry future-proofing from ground up, to advance in a sustainable manner? How is this embedded within everything we do, from designing and planning new sites to operating and maintaining facilities? In this digital age, how is technology helping us to achieve this as we continue to provide medicines safely?

Shanshan Liu
Conference Chair
ISPE Singapore Affiliate
Conference & Exhibition

From digital transformation to industry best practices, regulatory trends, manufacturing technologies, and advanced therapies, we have curated a program that addresses the most pertinent issues facing us today.

Alongside the conference and exhibition, Open Tracks, site tours, workshops, networking and related events are available for you to optimise your available time.

Please join us as we explore the challenges and opportunities and discuss how we can work sustainably for the benefit of all. Whether in-person, online or on-demand later, we hope you'll find this event valuable and enjoyable.

Warm regards,
Shanshan Liu



28 AUG **Pre-Conference Workshop**

Designing an Effective Contamination Control Strategy (Cleaning and Disinfection) in Compliance to Annex 1

Site Tours

- FOYA Award Winning Pfizer API Facility Extension
- Rockwell Automation's Singapore Customer Experience Center

Exhibition/Conference

Opening Hours:

Thu, 29 Aug 9:00AM – 5:45PM

Pharmanite Networking 5:45PM – 7:00PM

Fri, 30 Aug 9:00AM – 4:00PM

27 & 28 AUG

ISPE GAMP® Basic Principles Training

Basic Principles of Computerized Systems Compliance: Applying the GAMP® 5 Guide: A Risk-based Approach to Compliant GxP Computerized Systems Second Edition (T07)



29 & 30 AUG

Main Conference

ONSITE & ONLINE (LIVESTREAM) for Registered Conference Attendees

Open Tracks

ONSITE ONLY for all (including visitors)



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 **Free Wi-Fi is available throughout Suntec Singapore**

Featured Onsite Events:

ISPE Communities of Practice (CoP) Meetings

29 Aug: 10:30 AM – 2:45 PM

Women in Pharma

Roundtable Lunch

30 Aug: 12:45 PM – 2:00 PM



Emerging Leader's Networking

The Queen's Pub, 9 Raffles Blvd, Singapore 039596

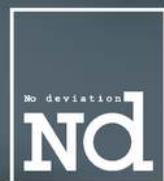
30 Aug: 4:30 PM – 6:30 PM

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Unlocking Value with GenAI | August 29th, 2:30pm**



Access our website here

LUNCH 'n' LEARN WORKSHOPS

Thursday 29 August | 12:30-1:30PM

Powering Sustainable Pharma Manufacturing with Digital Twin

Hosted By: **SIEMENS**

Digital twins enable the digitization of the pharmaceutical industry including drug discovery, tech transfer, equipment engineering, and smart manufacturing in smart buildings.

By utilizing digital threads, a comprehensive digital twin approach can be achieved, leading to sustainable efficiency.

In this session you will learn how digital twin solutions help digitize pharma manufacturing for sustainable efficiency, including in-silico testing for the development of optimized processes.

Comprehensive Approach to Future Lab Design – Flexible, Digital and Robotic Solutions

Hosted By: **exyte**

- Flexible lab design
- Digital lab design
- Lab design for robotics

Friday 30 August | 12:45-1:45PM

Contamination Control Strategy: Assessing the Risks of Contamination Control Measures and Processes

Hosted By: **ECOLAB**

Manufacturers must have a process of continuous improvement, including cleaning/disinfection practices.

This interactive workshop will explore the typical steps in change journey.

It discusses purpose of each step and support to expect from reputable suppliers of cleanroom detergents and disinfectants.

Best Practices for GMP Compliant Monitoring of Compressed Air Systems in Pharmaceutical Industry

Hosted By: **Ingersoll Rand**

1. Best GMP practices for Oil-free air compressors in the Pharmaceutical Industry.
2. Trends within the Pharma industry in Industry 4.0. Importance of 100% Oil-free Air
3. Compressor and Air Treatment in the Pharmaceutical Industry.

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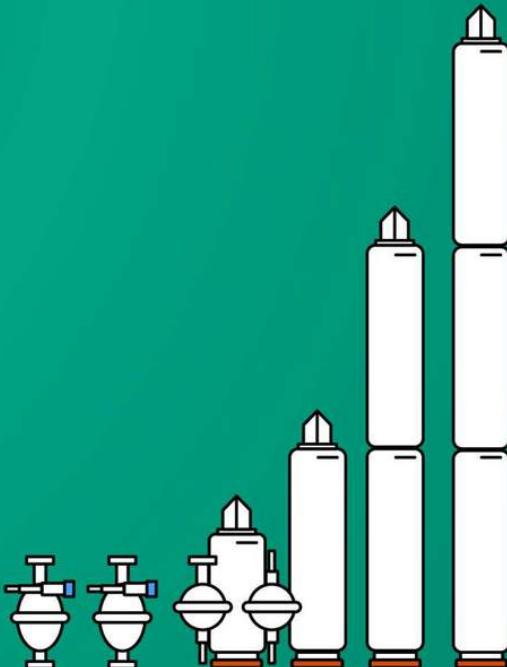
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MAIN CONFERENCE | 29 AUG

Onsite @ Suntec Singapore & Livestreamed

9:00AM Welcome from ISPE

Alfonso Karli, President, **ISPE Singapore Affiliate** & Director, GCMC Vaccines, **Pfizer**, Singapore

Jörg Zimmermann, Past Chair, **ISPE**; Vice President External Affairs; **Vetter Pharma Fertigung GmbH & Co KG**, Germany

9:05AM Chair's Opening Remarks

Shanshan Liu, Conference Chair, **ISPE Singapore Affiliate** & Technical Director, **No deviation**, Singapore

9:10AM Overview of WHO GMP Inspections in Asia

Vimal Sachdeva, Senior GxP Inspector, **WHO**, Switzerland

Dr Kentaro Hara, Division Director, Division of Inspection for Drugs I, Office of Manufacturing Quality for Drugs, **PMDA**, Japan

Jennifer Burnett, Assistant Secretary, Manufacturing Quality, **TGA**, Australia

Ellen Ying-Hua Chen, Deputy Director of Quality Compliance and Management, **TFDA**, Taiwan

12:30PM Lunch & Exhibition Visit | ISPE CoP Combined Lunch | Lunch 'n Learn Workshops

DIGITAL TRANSFORMATION PHARMA 4.0

Track Sponsor **NNIT**

1:45PM Chair's Opening Remarks

Wee Ming Chua, Associate Vice President, **NNIT Singapore**

1:50PM From Programming to Low Code/No Code, Aided by AI

Shaokai Hong, Digital Transformation APAC, **Tulip Interfaces**, Singapore

2:10PM Pharma 4.0+: Reimagining the Automation with Intelligence

Dr Pinghong He, Design & Sustain Director, **Johnson & Johnson**, Singapore

2:30PM Unlocking Value with GenAI: Case Studies in Pharma

Venkatesh Arunachalam, General Manager APAC, **Cognizant**, Singapore

2:50PM Digital Innovation: DDL Case Study

Jessica Hale, Global Regulatory Affairs & Clinical Safety, **Merck**, USA

3:10PM DIGITAL PHARMA PANEL: How Can Automation Help to Achieve Sustainability Goals?

Moderator:

Rajnish Narula, Director, Business Excellence, **Pfizer**, Singapore

Panelists:

Dr Pinghong He, Design & Sustain Director, **Johnson & Johnson**, Singapore

Jessica Hale, Global Regulatory Affairs & Clinical Safety, **Merck**, USA

Dr Knut Georgy, Global Market Manager Process Analytics, **Knick Elektronische Messgeräte**, Germany

Dr Gilad Langer, Head of DxP (Industry Practice Lead), **Tulip Interfaces**, USA

Wilbur Ho, Senior Director, Digital Manufacturing Operations, Asia Pacific, **MSD**, Singapore

PLENARY: SUSTAINABLE PHARMA

9:30AM OPENING PANEL: Re-Imagining a Sustainable Pharma: Harmonisation, Reliance, Convergence

Moderator:

Shanshan Liu, Conference Chair, **ISPE Singapore Affiliate** & Technical Director, **No deviation**, Singapore

Panelists:

Jörg Zimmermann, Past Chair, **ISPE**; Vice President External Affairs; **Vetter Pharma Fertigung GmbH & Co KG**, Germany

Jessica Hale, Global Regulatory Affairs & Clinical Safety, **Merck**, USA

Vimal Sachdeva, Senior GxP Inspector, **WHO**, Switzerland

Ellen Ying-Hua Chen, Deputy Director of Quality Compliance and Management, **TFDA**, Taiwan

10:15AM Networking Break

REGULATORY

11:00AM Chair's Opening Remarks

Vee Revithi, Senior Consultant to Pharmaceutical Regulatory Authorities on GMP, GDP; Greece

11:05AM Regulation | Reliance | Recognition – TGA and Manufacturing for Supply in Australia

Jennifer Burnett, Assistant Secretary, Manufacturing Quality, **TGA**, Australia

11:25AM PMDA Update – GMP Regulatory Requirements in Japan

Dr Kentaro Hara, Division Director, Division of Inspection for Drugs I, Office of Manufacturing Quality for Drugs, **PMDA**, Japan

11:45AM REGULATORY ROUNDTABLE: International Harmonization and Reliance

Moderator:

Bob Tribe, **ISPE Singapore** Regulatory Affairs Advisor, Australia

Panelists:

Chong Hock Sia, Director (Quality Assurance) & Senior Consultant (Audit & Licensing), Health Products Regulation Group, **Health Sciences Authority**, Singapore

Vimal Sachdeva, Senior GxP Inspector, **WHO**, Switzerland

3:55PM Networking Break

MAIN CONFERENCE | 29 AUG

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CQV: AI & Digitalization

Track Sponsor



4:35PM Chair's Opening Remarks

Sanjaya Nanjundaiah, Tech Lead, Quality & Compliance, **No deviation**, Singapore

4:40PM AI in Commissioning, Qualification & Validation

Pierre Winnepenninckx, CQV CoP Lead, **ISPE Singapore** Affiliate & CEO, **No deviation**, Singapore

5:00PM PANEL: The Good, the Bad, and the Ugly in CQV Practice: Navigating Challenges and Embracing Opportunities

Moderator:

Pierre Winnepenninckx, CQV CoP Lead, **ISPE Singapore** Affiliate & CEO, **No deviation**, Singapore

Panelists:

Jernice Li, Associate Director, Global Engineering C&Q, **Lonza**, Singapore

Nazema Latiff, Associate Director – FE, **Wuxi Biologics**, Singapore

David Margetts, CEO, **Factortalk**, Thailand

5:45PM Chair's Remarks & Pharmanite Networking

OPEN TRACKS | 29 AUG

Open To All

TRACK 1 (Room 1)

DIGITALIZATION

9:10AM Session Chair

Lalit Banger, **ISPE Singapore 4.0 CoP**, Digitalisation Consultant, **Siemens**, Singapore

9:15AM Cybersecurity Insights for Pharmaceutical Industry

Chao Yian Soon, Information Development Services Division Leader, **RoviSys Asia**, Singapore

Phillip Taylor, ASEAN Segment Lead of Network Security and Industrial Communications, **Siemens AG**, Singapore

9:35AM EBR Insights and Challenges: Cell Therapy Case Study

David Margetts, CEO, **Factortalk**, Thailand

9:55AM Best Practice: How Automation and Standardization Improve Compliance & Productivity

Dr Knut Georgy, Global Market Manager Process Analytics, **Knick Elektronische Messgeräte**, Germany

TRACK 2 (Room 2)

QUALITY

9:10AM Session Chair

Jen Chen, Conference Vice-Chair, **ISPE Singapore**, QA/QC Manager, **Schneider Electric**, Singapore

9:15AM Quality & Compliance in Emerging Markets

Mrs Dang Thanh Tam, Vice Technical Director, **Stellapharm J.V. Co., Ltd**, Vietnam

9:35AM Quality Cultural Excellence in Japan: Developing Leaders for a Sustainable Pharma Industry

Dr Hiroshi Yamaguchi, Co-Chair, **ISPE APAC Council** & VQL Japan, Global Quality, **UCB**, Japan

9:55AM Data Integrity – Beyond the Theory

Veronique Veillette, Associate Director, Head of Quality Control, **Lonza**, Singapore

10:15AM SESSION BREAK

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OPEN TRACKS | 29 AUG

Open To All

TRACK 1 (Room 1)

10.30AM **Pharma 4.0 Plug & Produce SIP**

Joachim Komar, Innovation Manager, **ZETA GmbH**, Austria

11.45AM-12.15PM **Introduction to Pharma 4.0**

David Bartlett, SME Automation, **ISPE Singapore Affiliate**, Senior Manager, **No deviation**, Singapore

12:30-1:30PM ***LUNCH 'n LEARN Workshop 1: Powering Sustainable Pharma Manufacturing with Digital Twin**

Hosted by **SIEMENS**

12:30-1:30PM **Combined CoPs Lunch**

REGULATORY

1:40PM **Session Chair**

Alfonso Karli, President, **ISPE Singapore Affiliate** & Director, GCMC Vaccines, **Pfizer**, Singapore

1:45PM **Regulatory Quality Harmonization Committee (RQHC) Asia Pacific Focus Group**

Dr Stephen Firmer, Immediate Past President, **ISPE Australasia** & Director, **Asia Pacific Consultants Pty Ltd**, Australia

Ryan Chan, Head of Market Specific Requirements, Content Delivery, Global Regulatory Affairs, **GSK**, UK

Yu Liang, Associate Director, Regulatory CMC/Technical Advocacy & Policy APAC, **MSD Singapore**

Dr Yuan Zhao, CTO, **Jiangsu Hilegene Biopharma Co Ltd**, China

Alfonso Karli, President, **ISPE Singapore Affiliate** & Director, GCMC Vaccines, **Pfizer**, Singapore

2:45PM **GMP Compliance – Asia Pacific**

Presenters:

Vimal Sachdeva, Senior GxP Inspector, **WHO**, Switzerland

Ellen Ying-Hua Chen, Deputy Director of Quality Compliance and Management, **TFDA**, Taiwan

Panel: (Speakers plus...)

Bob Tribe, **ISPE Singapore** Regulatory Affairs Advisor, Australia (moderator)

Dr Kentaro Hara, Division Director, Division of Inspection for Drugs I, Office of Manufacturing Quality for Drugs, **PMDA**, Japan

Jennifer Burnett, Assistant Secretary, Manufacturing Quality, **TGA**, Australia

4:30PM **Drug Shortage Prevention: Where are We?**

Jessica Hale, Global Regulatory Affairs & Clinical Safety, **Merck**, USA

4:50PM **Session Close**

TRACK 2 (Room 2)

10:30-11:00AM **Workshop 2.1 – Fully Automated Online Bioburden Monitoring for Pharmaceutical Water Systems**

Dr Jürgen Illerhaus, Pharma Marketing and Business Development Manager, **BWT AQUA**, Switzerland

11:15-12:00PM **Critical Utilities in Pharma: International Collaboration for Excellence**

Stefan Raabe, CU CoP Lead, **ISPE DACH**, Head of Strategic Account Management, **Endress + Hauser**, Switzerland

12:30-1:30PM ***LUNCH 'n LEARN Workshop 2: Comprehensive Approach to Future Lab Design – Flexible, Digital and Robotic Solutions**

Hosted by **exyte**

12:30-1:30PM **Combined CoPs Lunch**

HANDS ON CQV

1:40PM **Session Chair**

Pierre Winnepenninckx, CQV CoP Lead, **ISPE Singapore Affiliate** & CEO, **No deviation**, Singapore

1:45PM **CQV CoP**

Pierre Winnepenninckx, CQV CoP Lead, **ISPE Singapore Affiliate** & CEO, **No deviation**, Singapore

2:30PM **CQV Toolkit: Vendor Turnover Package**

Dan McAlister, CEO, **EIDA**, Ireland

2:50PM **CQV Toolkit: Thermal Mapping**

Bhavesh Panchal, Area Sales Manager, APAC, **Ellab Singapore**

3:10PM **Workshop 2.2: Realising Savings Through Paperless C&Q Execution – True or False?**

Joon Leong NG, Director, **No deviation**, Singapore

Hans van den Hoogen, Business Manager, **No deviation**, Singapore

3:55PM **Session Close**

MAIN CONFERENCE | 30 AUG

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SUSTAINABLE MANUFACTURING

9:00AM Chair's Opening Remarks

Stephanie Ledwidge, Co-Chair, Women in Pharma, **ISPE Singapore Affiliate**, Associate, Life Sciences, **Linesight**, Singapore

9:05AM Delivering the Facility of the Year During a Pandemic

Michael O'Hagan, Senior Project Manager, **Exyte Singapore**
Michael Donegan, Vice President, Growth & Sales Life Science, **Jacobs**, Ireland

9:25AM Sustainability Initiatives in BioPharma Manufacturing

Ngee Ping Ng, Head of Facilities and Engineering, **Roche Singapore Technical Operations**, Singapore

9:45AM PANEL: Can the Biomanufacturing Industry Reach Net Zero Carbon Emissions?

Moderator:

Firman Ghouze, Director of Global Strategy and Alliances, **Cytiva**, Singapore

Panellists:

Ngee Ping Ng, Head of Facilities and Engineering, **Roche Singapore Technical Operations**, Singapore

George Lam, Site Head, **Takeda**, Singapore

Gary Khoo, VP, CMC, **Hummingbird Bioscience**, Singapore

James Cai, Head of Engineering & Sustainability, Industrial, **AtkinsRéalis**, China

Dr Bess Ng, Principal Sustainability Consultant, **Schneider Electric**, Singapore

Fujie Yeo, Principal Manager, **Workforce Singapore**

10:30AM Networking Break

CMC & QUALITY

11:00AM Chair's Opening Remarks

Alfonsus Karli, President, **ISPE Singapore Affiliate** & Director, GCMC Vaccines, **Pfizer**, Singapore

11:05AM KEYNOTE: Navigating CMCs for ATMPs

Dr Yuan Zhao, CTO, **Jiangsu Hillegene Biopharma**, China

11:25AM Global Implementation of Post-Approval Changes: How Differences in Global Requirements Can Lead to Drug Shortages

Ryan Chan, Head of Market Specific Requirements, Content Delivery, Global Regulatory Affairs, **GSK**, UK

11:45AM Are We Ready for the Paradigm Shifts in the Upcoming ICH M4Q (R2)?

Yu Liang, Associate Director, Regulatory CMC/Technical Advocacy & Policy APAC, **MSD Singapore**

12:05PM ASK ANYTHING! CMC

Alfonsus Karli, President, **ISPE Singapore Affiliate** & Director, GCMC Vaccines, **Pfizer**, Singapore (moderator)

Dr Yuan Zhao, CTO, **Jiangsu Hillegene Biopharma**, China

Ryan Chan, Head of Market Specific Requirements, Content Delivery, Global Regulatory Affairs, **GSK**, UK

Yu Liang, Associate Director, Regulatory CMC/Technical Advocacy & Policy APAC, **MSD Singapore**

Dr Niki Wong, Director, Global Technical Operations, CMC, **AbbVie Operations Singapore**

12:30PM Lunch & Exhibition Visit

12:45PM Lunch 'n Learn Workshops | Women in Pharma Roundtable Lunch

ATMPs MANUFACTURING

2:00PM Chair's Opening Remarks

Peiqing Zhang, Vice President, **ISPE Singapore Affiliate**, Strategic Technology Partnership Leader Cell and Gene Therapy, APAC, **Cytiva**, Singapore

2:05PM ATMPs KEYNOTE: Strategies for CART Manufacture Process and Analytical Method Development

Dr Xinpo Jiang, Associate Vice President, Catalog Product Business Unit, **GenScript**, China

2:25PM ATMP Developments in Japan

Tsutomu Igarashi, Director & Biomanufacturing & ATMP CoP, **ISPE Japan**; Director Regional Lead, Capital Project & Portfolio / Automation; Global Engineering, **Takeda**, Japan

2:45PM Challenges for CGT Organizations in APAC

John Ng, General Manager, APAC, **Dark Horse Consulting Group**, Singapore

3:05PM PANEL: Expediting Affordable Advanced Therapies for Patients in Asia

Moderator:

Peiqing Zhang, Vice President, **ISPE Singapore Affiliate**, Strategic Technology Partnership Leader Cell and Gene Therapy, APAC, **Cytiva**, Singapore

Panellists:

Dr Xinpo Jiang, Associate Vice President, Catalog Product Business Unit, **GenScript**, China

Tsutomu Igarashi, Director & Biomanufacturing & ATMP CoP, **ISPE Japan**; Director Regional Lead, Capital Project & Portfolio / Automation; Global Engineering, **Takeda**, Japan

Dr Yuan Zhao, CTO, **Jiangsu Hillegene Biopharma**, China

Dr Kitipong Uaesootrachoom, CSO, **Genepeutic Bio**, Thailand

Dr Sissi Lin, Deputy Director, R&D Strategy, **Nucleic Acid Therapeutics Initiative (NATI)**, Singapore

John Ng, General Manager, APAC, **Dark Horse Consulting Group**, Singapore

3:50PM Chair's Remarks, Conference Ends

OPEN TRACKS | 30 AUG

Open To All

TRACK 1 (Room 1)

TRACK 2 (Room 2)

ASEPTIC MANUFACTURING & ANNEX 1

9:00AM Session Chair

Jörg Zimmermann, Past Chair, **ISPE International**; Vice President External Affairs; **Vetter Pharma Fertigung GmbH & Co KG**, Germany

9:15AM Contamination Control – Lessons Learnt from Regulatory Observations

Richard Chai, Senior Technical Service Manager, **STERIS Corporation**, Singapore

9:35AM Next Level Clean: Cleanroom Cleaning Guidance Updates

Zhao Fei Ming, Commercial Director, **Vileda Professional – Freudenberg Home and Cleaning Solutions**, China

9:55AM Using Hydrogen Peroxide Vapour Bio-Decontamination to Meet Sustainability Goals

David Keen, Director Pharmaceutical Microbiology & Consulting, **Ecolab**, UK

FACILITIES OF THE FUTURE

9:00AM Session Chair

Austin Lock, Technical Director, Group Head of Technology, **PM Group**, UK

9:15AM Simulation Enhanced Shopfloor Operations

Magesh Ramadoss, Business Development Manager, **ZETA GmbH**, Austria

9:35AM Energy Simulation in Sustainable Planning

Neeraj Goel, General Manager, **Jacobs**, India

9:55AM Considerations for Multi-Product Manufacturing Facilities

Sabrina Xu, Head of Novel Modalities and Investment Projects, **Merck Life Science**, Singapore

10:15AM SESSION BREAK

10:30AM Annex 1 – What Has Changed, What Has Not, and How to Get Compliant

Kevin Owen, Director of Aseptic Technologies-EMEA, **IPS-INTEGRATED PROJECT SERVICES PTE LTD**, UK

10:50AM Case Study: Changeover of Quaternary Ammonium Compound Disinfectant

Li Wei Chan, Microbiology Manager, **MSD Singapore** & **Richard Chai**, Senior Technical Service Manager, **STERIS Corporation**, Singapore

11:10AM Establishing Contamination Control Strategy: A Risk-Based Approach

Sanjaya Nanjundaiah, Tech Lead, Quality & Compliance, **No deviation**, Singapore

11:30AM How AI is Increasing the Efficiency of Sterile Filling Lines

Thorsten Meiser, Technical Sales Manager Turnkey, **OPTIMA Pharma**, Germany

CDMOs

10:30AM Session Chair

Chris Lee, SME – CDMOs, **ISPE Singapore Affiliate**, Site Head, **WuXi Biologics**, Singapore

10:35AM Empowering Sustainability: The Vital Role of CDMOs in Pharmaceutical Supply Chain Resilience

Richard Lee, Chief Executive Officer and Member of the Board, **LOTTE BIOLOGICS**, Korea

10:55AM Challenges and Strategies on ADC Commercial Process Development and Manufacturing

Dr Jimmy Li, CEO, **WuXi XDC**, China

11:15AM PANEL DISCUSSION: Facility Design and Building in Sustainable Manufacturing

Austin Lock, Technical Director, Group Head of Technology, **PM Group**, UK (Moderator)

John Chen, Vice President, Global Engineering, **WuXi Biologics**, China

Sam Williamson, Senior Director Operations Asia Pacific, **BioNTech Pharmaceuticals Asia Pacific**, Singapore

Wallace Torres, VP Site Operations, **Amgen**, Singapore

Luca Mussati, Vice President Technology Management BLS GBU, **Exyte**, Germany



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TRACK 1 (Room 1)

11:50-12:20PM **ASK ANYTHING!**

Session chair and speakers

12:45-1:45PM ***LUNCH 'n LEARN Workshop 3: Contamination Control Strategy: Assessing the Risks of Contamination Control Measures & Processes**

Hosted by **ECOLAB**

12:45-2:00PM **Women in Pharma Roundtable Lunch**

2:00-2:20PM **Next Generation of Aseptic Filling – Highest Flexibility Meets Regulations of Annex 1**

Patrick Wieland, Global Lead Business Development
Tobias Wetzel, Area Sales Manager, **Bausch+Ströbel**, Germany

2:25-2:55PM **Workshop 3.1 Flexible Facilities Design for Regulatory Compliance and Contamination Control Strategies**

Austin Lock, Technical Director, Group Head of Technology, **PM Group**, UK

3:00PM **Workshop 3.2: Developing a Successful Contamination Control Program for ATMP Facilities**

Jim Polarine, Senior Technical Service Manager, **STERIS Corporation**, USA

3:45PM **Session Close**



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TRACK 2 (Room 2)

12:00-12:25PM **FOYA Facilities of the Year Awards: Preview and Invitation for 2024**

Jörg Zimmermann, Past Chair, **ISPE**; Vice President External Affairs; **Vetter Pharma Fertigung GmbH & Co KG**, Germany

12:45-1:45PM ***LUNCH 'n LEARN Workshop 4: Best Practices for GMP Compliant Monitoring of Compressed Air Systems in Pharmaceutical Industry**

Hosted by **IR** *Ingersoll Rand*.

12:45-2:00PM **Women in Pharma Roundtable Lunch**

ADVANCED TECHNOLOGIES

2:00PM **Session Chair**

David Bartlett, SME Automation, **ISPE Singapore Affiliate**, Senior Manager, **No deviation**, Singapore

2:05PM **Bioreactor Monitoring & Decision Support Using Digital Twins to Improve Batch Success Rates**

Dr Bhavik Mehta, Solutions Consultant, **Siemens Digital Industries Software Ltd**, UK

2:25PM **Continuous Buffer Management System (CBMS): A Viable Alternative for Buffer Tank Farm**

Zuwei Jin, VP Business Development, **Lisure Technology Co**, USA

2:45PM **Innovation: GMP in Single Use**

Alex Mueller, Senior Expert Industry Manager Life Sciences, **Endress+Hauser**, Switzerland

3:05PM **Identification of Microorganisms: Challenges and Recent Trend in Pharmaceutical Laboratories**

Meng Hua ONG, Applications & Business Development Specialist-SEA, **Bruker Singapore Pte Ltd**

3:25PM **Smart Biomanufacturing through Technology Innovation – AI/ Digital Twin**

Jing Zhou, Life Science GM, Group VP, **Shanghai Shugao**, China

3:45PM **Session Close**



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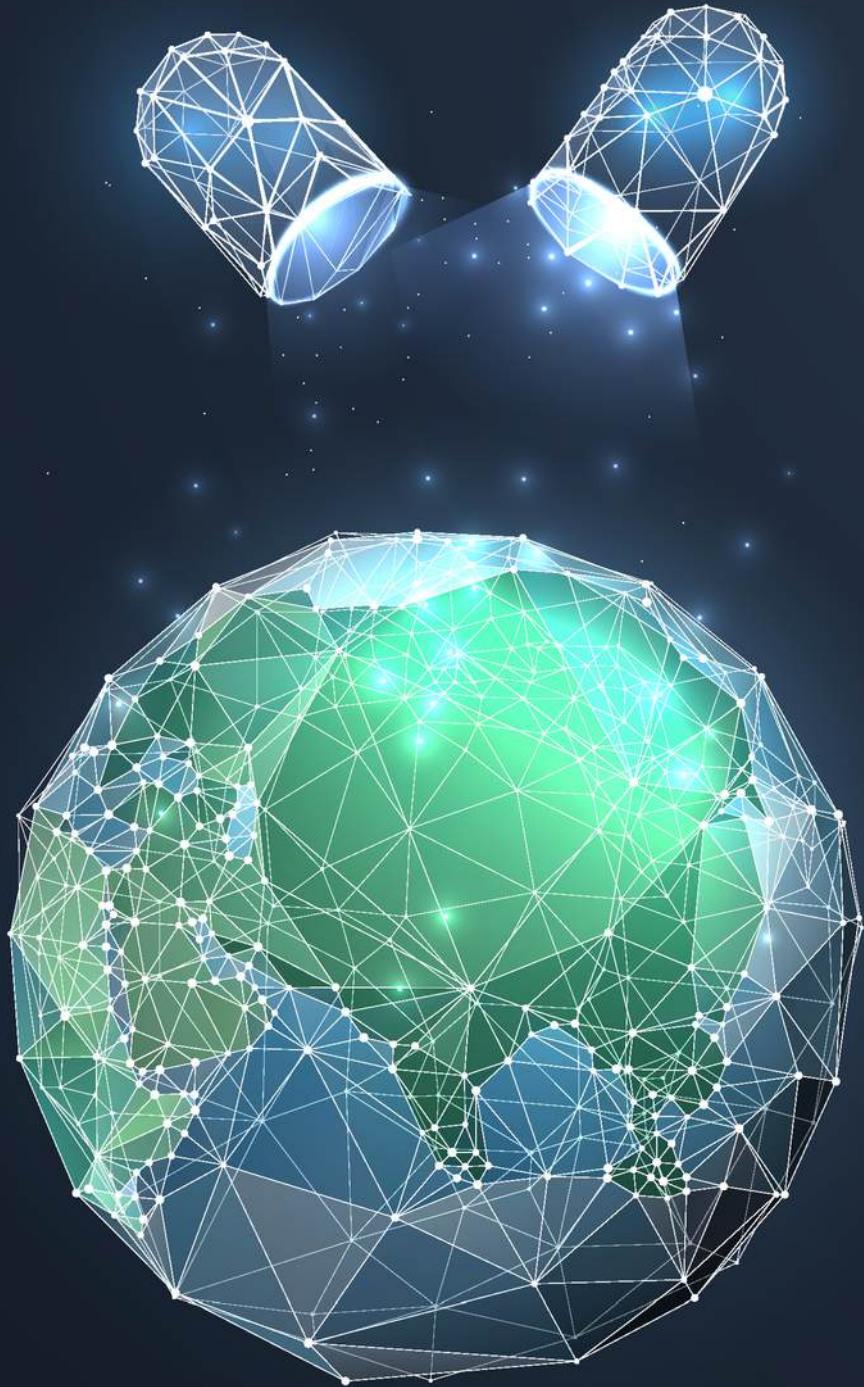
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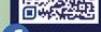
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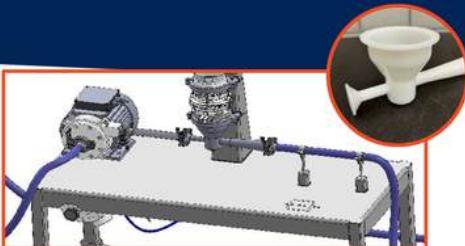
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info@uhlmann-singapore.com
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<https://ce.vileda-professional.com/>
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+60 162 233 813



Booth #225

Wisely Gobal Solutions Pte Ltd / Levitronix / ZETA

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Booth #351A

YOKOGAWA

Yokogawa Engineering Asia Pte Ltd.

<https://www.yokogawa.com/sg/industries/pharmaceutical/#Overview>

Booth #704



Booth #223

ZETA GmbH (works with Wisely)

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	Talk 1	Talk 2	Talk 3	Talk 4
10:25 - 10:40	241 Ecolab	350 Uhlmann, Harro Höfliger, pester pac automation	250 Xyte	240 Tulip Interfaces
	Disinfectant Residue Management: An introduction	Latest Trends in Pharma Production & Productivity	Digital Solutions for the Engineering of the Future	AI for the Operators: Using Tulip Frontline Copilot to Improve Operations
10:45 - 11:00	210 Schneider Electric	330 Bausch+Ströbel / Rieckermann	336 RoviSys Asia	215 Siemens
	Next Generation Pharma Manufacturing	Update on Annex I with Fill & Finish & Pharma Engineering Services	Optimizing Quality: MES Execution Strategy for Enhanced Manufacturing	Enabling Smart Manufacturing with Agile Production in Challenging Environments
11:05-11:20	254 Merck	332 Shanghai ShuGao Mechanical & Electric	244 Thermo Fisher Scientific	201 ILC Dover
	Bioconjugation at the Forefront: Innovating for ADCs	Bioreactor Design Experience Sharing	Cutting-edge Steriles Manufacturing and Technology Transfer: Enhancing Efficiency and Quality	Novel Single-Use JetMixer for Powder-to-Liquid Media and Buffer Mixing
11:25-11:40	211 Cognizant Technology Solutions	203 No deviation	325 SaniSure	233 Ingersoll Rand Enterprises
	Enhancing Process Control with Integrated Batch & Continuous Strategies to Drive Innovation	Using Kneat As A Tool for Always Audit-Ready	Enhancing Single-Use Mixing Processes for Small Volume Parenteral Formulations	Maintaining Reliable 100% Oil-Free Air For Pharmaceutical Applications
11:45-12:00	212 Cobetter Filtration Equipment	220 Cytiva	310 Gaia Science	101 Lisure Science
	PUPSIT - Design Considerations for Final Sterile Filtration	Advancement Hardware and Automation in Chromatography System	(Dickson) Best Practices of Wireless Environmental Monitoring in the Pharma Industry	Advances in Downstream Processing Technologies and Continuous Buffer Management System (CBMS)
2.00-2.15	114 BWT Pharma Water	314 Ellab Singapore	210 Schneider Electric	
	The First Primary Validated Online Bioburden Monitoring System for Pharmaceutical Water	Save Time and Money by Optimising your Thermal Validation Setup		Achieving your Sustainability Goal Through Digitalization
2.20-2.35	211 Cognizant Technology Solutions	310 Gaia Science	325 SaniSure	
	Utilising Digital Transformation to Advance Through Level 3 Connected and Beyond	(IKA) Pharmaceutical Manufacturing Solutions		Enhancing Single-Use Mixing Processes for Small Volume Parenteral Formulations
2.40-2.55	203 No deviation		215 Siemens	
	Latest Trend in QbD		Simplifying Integration of OEM Machines in Secondary Pharma	
4.00-4.15	322 Knick Elektronische Messgeräte	212 Cobetter Filtration Equipment	101 Lisure Science	
	Automation and Standardization with cCare for Pharma	Cobetter Platform for Cell and Gene Therapy Processes		Advances in Downstream Processing Technologies and Continuous Buffer Management System (CBMS)
4.20-4.35	220 Cytiva	114 BWT Pharma Water	201 ILC Dover	
	Single-Use Quality by Design & PUPSIT	Flow Cytometry as Alternative to Heterotrophic Plate Count for Pharmaceutical Water		Novel Single-Use JetMixer for Powder-to-Liquid Media and Buffer Mixing

	Talk 1	Talk 2	Talk 3
10.05-10.20	240 Tulip Interfaces	330 Bausch+Ströbel / Rieckermann	203 No deviation
10.05	Practical Implementation of Validation 4.0 for eBR	Update on Annex 1 with Fill & Finish & Pharma Engineering Services	[Blynksolve] : A Digital Platform for Simplified Tech
10.25-10.40	250 Exyte Central Europe GmbH	241 Ecolab	350 Uhlmann, Harro Höfliger, pester pac automation
10.45-11.00	Enhancing Digital Integration in the Production Plant	Hydrogen Peroxide Vapor Bio-decontamination	Latest Trends in Pharma Production & Productivity
11.05-11.20	233 Ingersoll Rand Enterprises	310 Gaia Science	325 SaniSure
11.25-11.40	Maintaining Reliable 100% Oil-Free Air For Pharmaceutical Applications	(Sotax) Improving Drug Quality with Automated Testing Using Data Integrity to Outsourcing	Enhancing Single-Use Mixing Processes for Small Volume Parenteral Formulations
11.45-12.00	244 Thermo Fisher Scientific	332 Shanghai ShuGao Mechanical & Electric	210 Schneider Electric
1.40-1.55	Sustainability in Bioprocessing: Maximizing Efficiency While Reducing Environmental Impacts	Bioreactor Design Experience Sharing	Next Generation Pharma Manufacturing
2.00-2.15	254 Merck	220 Cytiva	212 Cobetter Filtration Equipment
2.20-2.35	An Innovative Approach to Streamline Raman Implementation for Cell Culture Processes using One-Batch Calibration	Data Management Systems for Filter Integrity	mRNA Vaccine Manufacturing Strategy and Cobetter Offerings
2.40-2.55	114 BWT Pharma Water	211 Cognizant Technology Solutions	215 Siemens
3.45-3.55	Validation Procedure for (IPC) and QC of Online Bioburden Monitoring for Pharmaceutical Water Systems	Transforming Project Vision into Reality Through an Effective Automation Engineering Office	Integrating AI-powered solution for Predictive Maintenance in Pharma
4.00-4.15	314 Ellab Singapore	310 Gaia Science	336 RoviSys Asia Company
4.20-4.35	The Next Generation of Wired Validation	(Yokogawa) Accurate & Efficient testing of Biopharma Samples for USP787/788	MEES: Turning Data into Actionable Intelligence
4.40-4.55	322 Knick Elektronische Messgeräte	210 Schneider Electric	203 No deviation
4.55-4.55	Automation and Standardization with cCare for Pharma	Achieving your Sustainability Goal Through Digitalization	[Eida]: Electronic Document Management
5.00-5.15	325 SaniSure	212 Cobetter Filtration Equipment	215 Siemens
5.20-5.35	Enhancing Single-Use Mixing Processes for Small Volume Parenteral Formulations	Tangential Flow Filtration Solutions to Meet Complex and Novel Biologic Processes	Innovative Sitewide Documentation Management for Pharma Compliance and Efficiency
5.40-5.55	201 ILC Dover		220 Cytiva
5.55-5.55	Novel Single-Use JetMixer for Powder-to-Liquid Media and Buffer Mixing		Cytiva Housings Design and Compliance Documentation



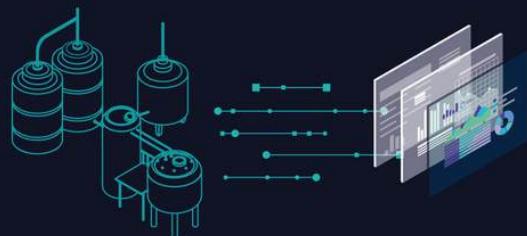
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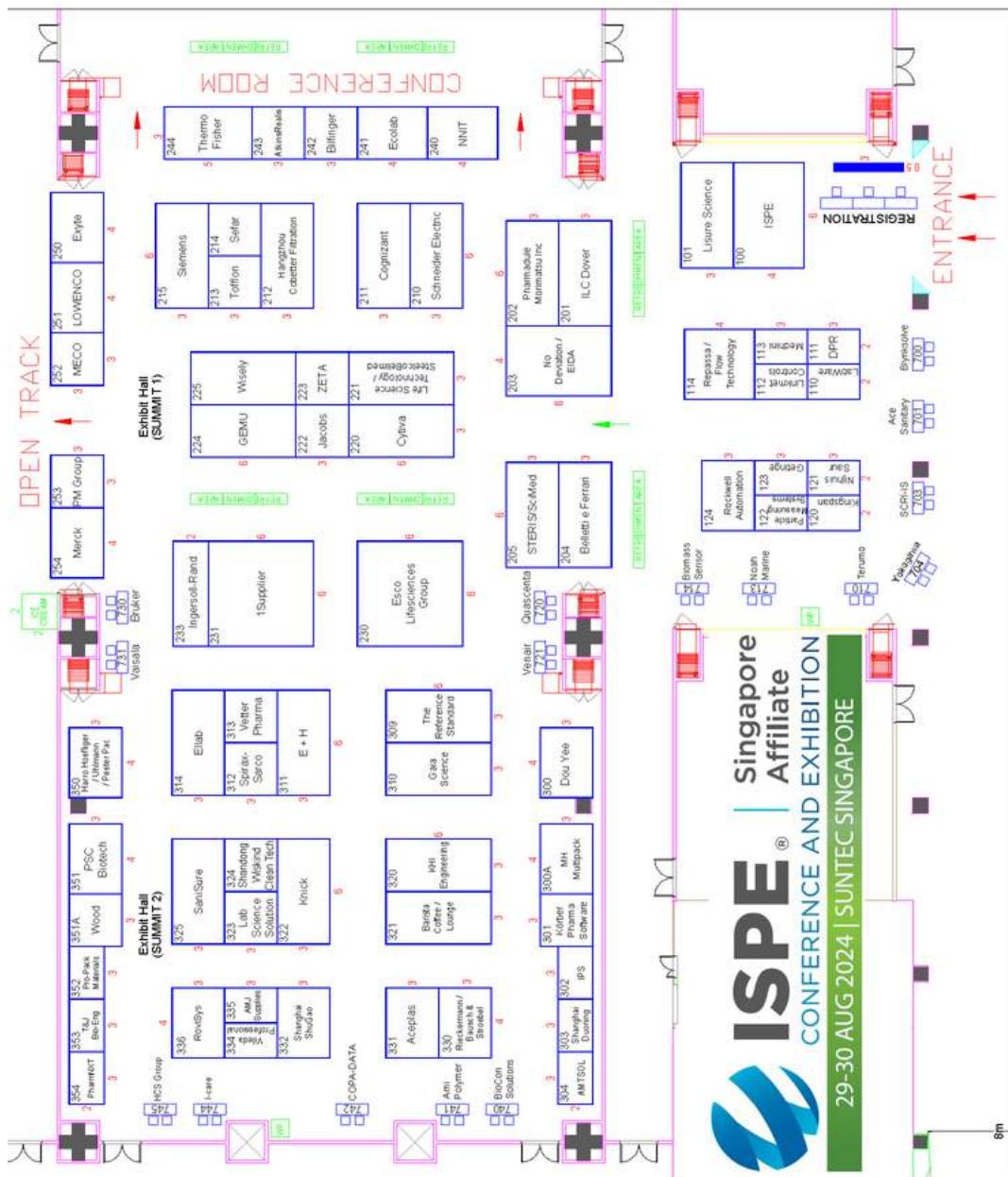
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