

Life Sciences.NOW

Webinar Series



8 Interactive Webinars

Interactive Discussions on Digital Plant Technologies

This Life Sciences.Now webinar series will provide direction and updates on key manufacturing operation initiatives to improve operational certainty, deliver cost effective quality and regulatory compliance and accelerate the product development pipeline.

The series format will provide: -

- 1) An update on key Life Sciences manufacturing operation initiatives,
- 2) Examples of the topic, and
- 3) An open question and answer session with panelists.

Why Attend: -

- Gain input from stake holders and peers on industry direction, challenges and solutions.
- Shape your strategy on the way solutions are being developed and how to apply them in your facility.
- Experience hands on demonstrations of automation solutions and packages.
- Learn best practices to help you understand the impact and future opportunities for your site.

Register for Series

Click the register button above, or copy the link below into a web browser.
<https://go.emersonautomation.com/life-sciences-now-webinar-2020>

Webinar Series: -

- **Apply the BioPhorum Digital Plant Maturity Model to Transform your Operation** – 30th June and 2nd July
- **Deliver Value of Manufacturing Execution Systems and Phased Deployment** – 7th and 9th July
- **Optimize Life Sciences Facility Throughput** – 14th and 16th July
- **Implement Easy Flexible Manufacturing Leveraging Common Modules and new Plug and Play Technologies** – 21st and 23rd July
- **Improve Life Sciences Equipment Uptime** – 28th and 30th July
- **Get to Market Faster and Reduce Risk with the Emerson Digital Twin** – 4th and 6th August
- **Accelerate the Technology Transfer Process for your Product Development Pipeline** – 11th and 13th August
- **Ensure Product Quality in Real-Time through Process Analytical Technologies** – 18th and 20th August

See overleaf for full details.

Apply the BioPhorum Digital Plant Maturity Model to Transform your Operations

30th June and 2nd July 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Alan Johnston – Life Sciences Industry Consultant, and Zigor Lizuain - Digital Transformation Solutions Architect

Beginning your digital transformation journey can be challenging. With Emerson's structured Digital Transformation approach, incorporating the BioPhorum Digital Plant Maturity Model, define your business challenges and benefits, assess your current state and identify key opportunities to move your operations to the next level. Determine how to get started, how to plan the strategy and where to focus.

Learn how you can: -

- Define your Digital Transformation strategy by collaborating with Emerson on a journey that starts with a clear and concise understanding of goals, benefits and values.
- Apply the Digital Plant Maturity to identify and plan manufacturing improvement opportunities.
- Adopt a portfolio of automation options and future digital technologies to realize the business benefits while minimizing risk to production.

Deliver Value of Manufacturing Execution Systems and Phased Deployment

7th and 9th July 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Johan Zebib - Business Development Leader, Syncade and, Vivek Kasture - MES Group Leader

'Right first time' manufacturing has always been important in the Life Sciences Industry. This can be particularly challenging when manual operations and paper documents are used across operations. Different types of MES solutions can be deployed to address specific challenges. Some of these solutions can be categorized as follows: -

- Paper on Glass.
- Electronic order management and material dispensing.
- Electronic Workflow with light integration with external systems.
- Electronic Workflow with full integration.
- Horizontal deployment versus vertical deployment.

Learn how you can:

- Define the pertinent MES functions that address your most relevant challenges.
- Evaluate different options to deploy the best solution.
- Deploy an MES solution in a phased approach.
- Realize the full benefits of MES.



Optimize Life Sciences Facility Throughput

14th and 16th July 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by David Zhang – Director Manufacturing Execution Optimization, and Ron Rossbach – Life Sciences Industry Consultant

Life Sciences companies strive to optimize utilization in their manufacturing operations and delivering maximum facility performance as part of the overall supply chain is an important operations initiative. As production volumes grow, it is critical to identify potential bottle-necks, determine how to address them, and avoid supply chain problems while ensuring patient safety. Additionally, when supply chain develops the overall production plan, continuously managing this plan in the face of changing priorities and problems on the production floor can be a real challenge.

Learn how you can: -

- Easily develop facility performance models to assess production bottle-necks and resolve them.
- Integrate real-time production floor performance information into a dynamic scheduling application for "always current" planning.
- Address facility resource changes and constraints in real-time to ensure planned production schedules are met and avoid potential shutdowns.



Implement Easy Flexible Manufacturing Leveraging Common Modules and new Plug and Play Technologies

21st and 23rd July 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Kelsey Hill – Life Sciences Marketing Manager, and Klaus Erni – Sr. Technical Consultant.

As organizations respond quickly to changing market demands, a flexible manufacturing “ballrooms”, where it’s easy to change the manufacturing process line to create a new product, has been a goal for many years. The lack of standardized data and service interactions as well as the difficulties integrating the automation components across various types of process equipment have made this too complex to easily achieve. New integration technologies such as OPC UA and industry application approaches like the NAMUR 148 Module Type Package (MTP) are simplifying this approach to make it easy to connect equipment to “balance of plant” automation management systems.

Learn how you can: -

- Apply the standards being developed by NAMUR 148 / MTP and the associated BioPhorum Life Sciences guidelines.
- Compare the options available - from DeltaV PK Merge to MTP for PLC’s.
- Realize the potential benefits of leveraging this approach for a new flexible manufacturing strategy.

Improve Life Sciences Equipment Uptime

28th and 30th July 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Dennis Belanger – Director Operational Certainty Consulting, and Nick Lubenetski – Business Development Manager for Bio-G Scheduling Applications

As Life Sciences companies move to continuous manufacturing with fully utilized facilities, avoiding unplanned equipment problems and associated downtime has become an important reliability initiative. Asset Lifecycle Programs that identify and prioritize critical equipment, change from routine preventive maintenance practices to predicting failures, and manage equipment performance in real-time have become the new norm.

Learn how you can: -

- Easily Update life sciences production and facility maintenance programs to improve equipment uptime.
- Apply new diagnostic measurements and tools to proactively identify equipment problems before they occur.
- Realize the potential benefits of this approach.
- Optimize your production by integrating predictive maintenance and Real-Time Scheduling.



Get to Market Faster and Reduce Risk with the Emerson Digital Twin

4th and 6th August 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Ronnie Bains – Director, Process Simulation Europe, and Zachary Sample - Simulation Sales Manager

Historically, Process simulation has not been widely applied in the Life Sciences industry. However, the Emerson Digital Twin provides game changing technology to this industry, which can be applied to a wide range of activities throughout the lifecycle of a facility.

Learn how you can: -

- Reduce risk to both patients and projects.
- Get product to market quicker through virtual commissioning.
- Reduce project cycles and save time associated with regulatory compliance and validation support.
- Enable detailed testing & development of the automation system.
- Provide a decision support and competency assessment platform.

Accelerate the Technology Transfer Process for your Product Development Pipeline

11th and 13th August 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by Michalle Adkins – Director Life Sciences Consulting, and Ron Rossbach – Life Sciences Industry Consultant

As recent events demonstrate, reducing time to market for a new therapy is a key opportunity for Life Sciences companies. New developments in Process Knowledge Management, information exchange standards and overall Life Sciences data management and data exchanges are making this historic “wish list item” for process automation a reality. As common execution system building blocks align with high level process design and development tools, the ability to automate data collection and deploy execution system recipes across the enterprise is expanding.

Learn how you can: -

- Easily utilize emerging knowledge management solutions to streamline process and recipe design.
- Organize execution system building blocks to align with high level recipe design elements.
- Leverage data collection, reporting and exchanges to ensure key process parameters are aligned and exchanged across lab scale, pilot/clinical scale, and commercial manufacturing.
- Ensure proper management of change across the lifecycle.

Ensure Product Quality in Real-Time through Process Analytical Technologies

18th and 20th August 2020 - 15:00 Central European Time / 09:00 US Eastern Time

Webinar led by John Caldwell – DeltaV Product Manager, and Mark Brewer – Senior Advanced Control Consultant

Although Process Analytical Technologies have been successfully applied for many years, the current solution is managed across several systems, making it rigid and difficult to maintain. Moving lab quality measurements to in-line, real-time, “closed loop” control is a growing requirement as the industry transforms to continuous manufacturing.

Learn how you can: -

- Identify opportunities and overcome challenges to implement PAT.
- Bring analytical device measurements and chemometric modeling directly into an automation system.
- Integrate these measurements in advanced control schemes to manage product quality in real-time.
- Apply change management tools and other approaches to meet regulatory compliance.

Registration

Register for all Webinars and choose which of interest.

Visit: <https://go.emersonautomation.com/life-sciences-now-webinar-2020>

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