



Industry Day Life Sciences



Your hosts today



Petter Moree
Industry Principal
OSIsoft



Bryan Pope
Industry Champion
OSIsoft



Tim Alosi
Director Analytics
Biogen

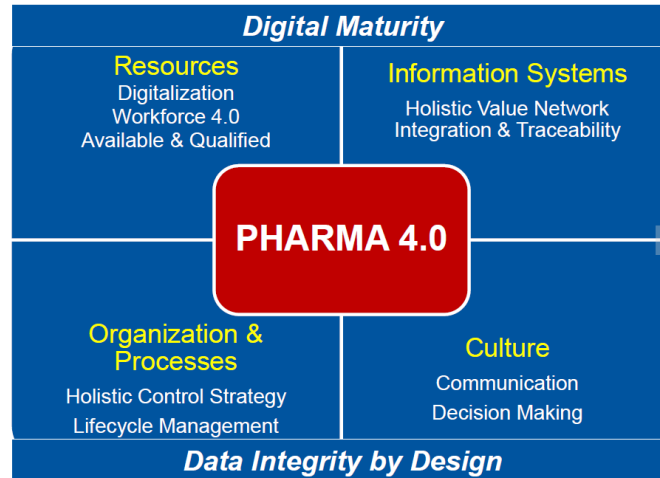
| Time | Title | Presenter(s) |
|---------------|---|--|
| 8:45 – 9:00 | Digitalization transforming the Life Sciences | Petter Moree, Bryan Pope – OSIsoft Tim Alosi – Biogen |
| 9:00 – 9:30 | Advantages of Deploying PI for the Collection of Discrete Data from an Automated Bioreactor Sampling System | Kristin O'Neill - Merck & Co., Inc. |
| 9:45 – 10:30 | It's The Data Stupid: How PI AF Analytics Rescued Our Real-time Multivariate Process Monitoring | Bing Zhang & Matthew Morrow - Bristol-Myers Squibb |
| 10:45 – 11:30 | New PI Cloud Data Reveals Three Critical Concepts for Best Results | Nick Clark & Craig Taylor - BioMarin Pharmaceutical Inc. |
| 11:45 – 12:30 | Enterprise PI and the Digital Plant | Greg White & Wilfred Mascarenhas - Eli Lilly and Company |
| 12:30 – 14:30 | Lunch | |
| 14:30 – 15:00 | Leveraging Data Analytics to Support Merck's Journey in Continuous Manufacturing | Lisa Graham - Seeq Corporation Laura Wareham - Merck & Co., Inc. |
| 15:15 – 16:00 | Implementation of an OSIsoft PI System in support of advanced pharmaceutical manufacturing | Wyatt Ling & Christopher Beaupre - NECI Dave Rabon & David Eisenberg – Pfizer |
| 16:00 – 16:45 | Big data management strategy for continuous pharmaceutical manufacturing | Douglas Hausner - C-SOPS, Rutgers University |
| 16:45 – 16:55 | Llife Sciences User Group Introduction | Tim Alosi – Biogen |
| 16:55 – 17:45 | Expert Panel Discussion | Chris, Gus, Dough, Craig & Myles |
| 17:45 – 18:20 | Workshop Breakout session | Liana, Ahmad, Mana, Allon and Ellery |
| 18:20 – 18:30 | Closing | Tim Alosi, Petter Moree |

What is going on?

PHARMA 4.0 – Operating Model

The PHARMA 4.0 Operating Model enables and controls the Holistic Control Strategy Lifecycle Management with Data Integrity by Design based on the organizations Digital Maturity within the Industrie 4.0 architectural framework.

Source: ISPE SIG "PHARMA 4.0"



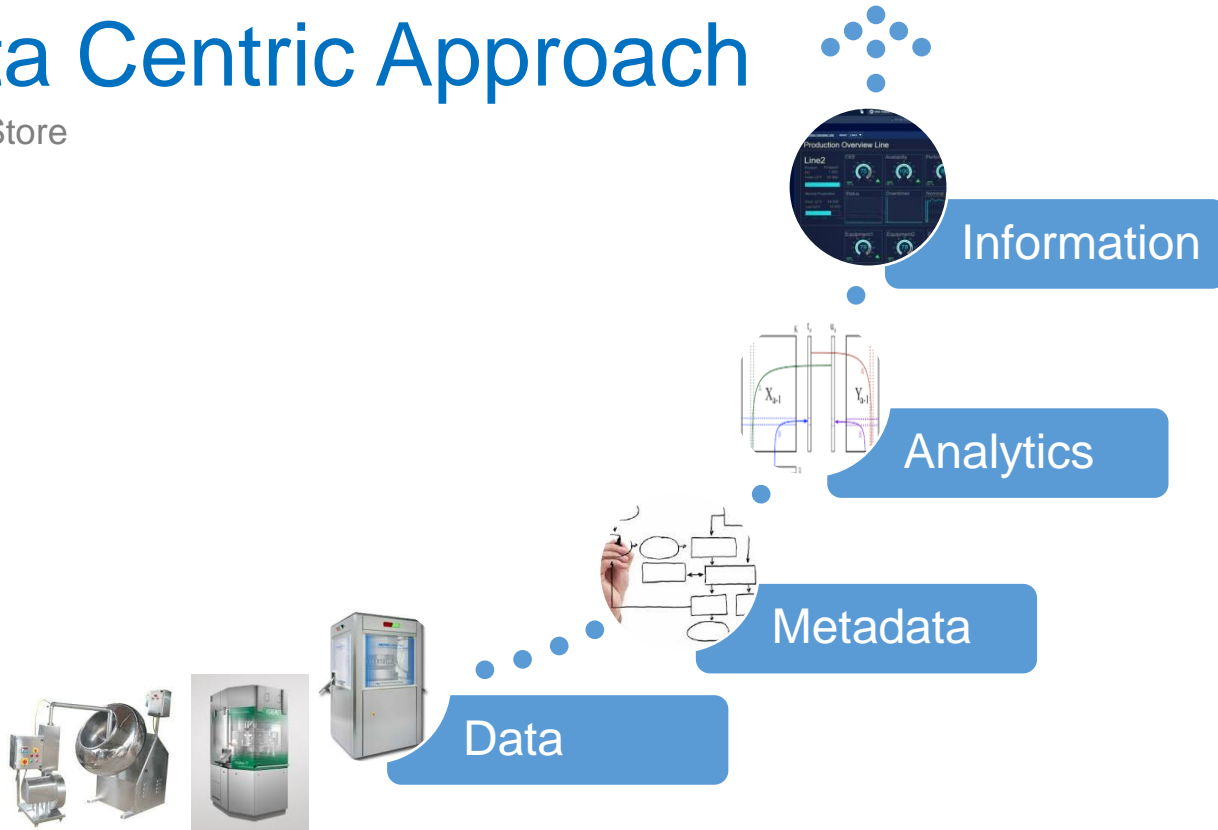
Data Integrity by Design

- Risk-based
- Process maps
- Data flows
- Flexibility
- Robustness

Ref Ian Thrussell, Expert Inspector WHO

Data Centric Approach

Plug & Store



Plug & Produce

Data Centric

- Accessible
- Scalable

User Driven

- Agile
- Transparent
- Value driven

Data Integrity

- Risk-based
- Audit Trail
- Process maps
 - Process Models
 - Asset Models
- Flexibility
- Robustness

USER GROUP MEETING

HILTON: Grand Ballroom A,
Grand Ballroom Level

All are welcome!

4:45 PM – 6:30 PM

Expert Panel Discussion

*Followed by Breakout sessions on Event frames,
Critical Operations, Selling to your leadership, etc!*

INDUSTRY DINNER

7:30 PM @ Lolinda
2518 Mission St

Want to RSVP:
community@osisoft.com

We will meet you at the restaurant.

PARTNER & PRODUCT EXPO

Going on all day
Golden Gate and Yosemite



GET READY FOR DAY 3 !

HILTON

- Opening Session & Product Track
- Best Practices Track
- Partner Marketplace Showcase

PARC 55

- Developer Track & Tech Talks
- PI Security Workshop – Not just for Security Gurus!



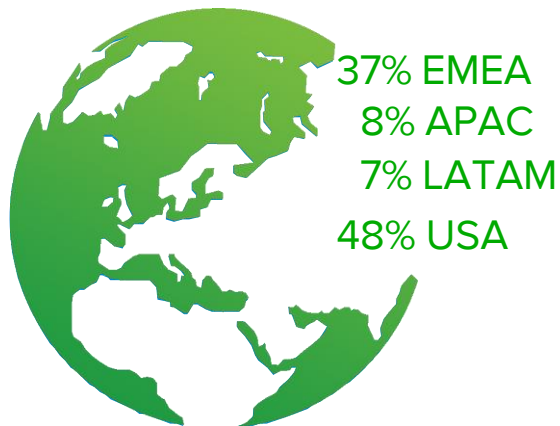
TRAINING LABS START TOMORROW

All labs require pre-registration

*Check the back of your badge for room locations
and visit the registration desk with any questions!*

LIFE SCIENCES USERS' GROUP

630
PLUS
MEMBERS



OVER
195
COMPANIES
REPRESENTED



<https://pisquare.osisoft.com/groups/life-sciences>

Today's Life Sciences PI User Group Program:

- **16.45 – 16.50 – Opening Remarks**
- **16.50 – 17.45 – Round Table Panel Discussion**
- **17.45 – 18.20 – Workshop Breakout Session**
 - **Trends in Successful Industrial Analytics Programs**
 - Ahmad Fattahi, Manager Data Science Enablement
 - **PI System for Critical Operations**
 - Mana Afshari
 - **Advanced Event Frames**
 - Ellery Murdok, Event Frames Initiative Lead
 - **Selling PI System to management**
 - Allon Shiff, Principal Business Advisor
 - **RtReports new version**
 - Liana Peysakhovich, Team Lead
- **18:20 – 18:30 – Wrap up**
- **19:30 – 22:00 – Pharma Industry Dinner**

Today's Panelists

Chris Beaupre

NECI



Craig Taylor

Bio-Marin



Myles Sumlin

Genentech



Gus Green

AveXis



Dough Hausner

Rutgers University



ASK QUESTIONS

slido.com
#LSPUG

*Vote on questions, ideas, and more!
No login required.*

Steering Committee Members

| Name | Company | Role |
|-------------------|--------------|---------------|
| Tim Alosi | Biogen | Chair |
| Cassandra Murillo | Regeneron | Secretary |
| Kurt Creutzburg | Novo Nordisk | Member |
| Brian Goldinger | Lilly | Member |
| Myles Sumlin | Genentech | Member |
| Thorsten Ulbricht | Roche | Member |
| Craig Taylor | Biomarin | Former Chair |
| Sarang Pande | Dr Reddy's | Member |
| Petter Moree | OSIsoft | Support Staff |
| Paula Baquer | | |
| Bryan Pope | | |
| Jarita Sirois | | |



“Connecting and Empowering PI System Users Worldwide”

Connect with all of OSIssoft - product managers, developers, support, industry experts, learning, leadership

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- Join one of 16 user groups and collaborate with others in your industry
- Free online courses, beginner and advanced
- Industry Asset Based Example Kits
- OSIssoft Development Support online
- Ask questions, get answers
- Open to everyone
- It's all free

<https://pisquare.osissoft.com/groups/life-sciences>