

#ISPESingapore21
It was a pleasure and an incredible opportunity to attend the ISPE Singapore Conference 2021. The incredible panel of speakers provided knowledge of up-to-date affairs and technologies, which was extremely useful and interesting. I was particularly interested in "Process Development & Manufacturing Optimization for Biopharma using Predictive Model-Driven Monitoring, Control and Maintenance" presented by the esteemed speaker, David Lovett, APG Pharma Chief Strategy Officer, Applied Materials. He tapped on the usefulness of Data fusion and visualization, model adaptation, automated design of experiments, advanced process control and process monitoring. Predictive model-driven monitoring allows for proficiencies such as reduced maintenance frequency on equipment, reduced risk of product loss during manufacturing and allows for the convenient scheduling of maintenance tasks. He also shared that advanced manufacturing ML/AI tools have benefits such as effective statistical modelling of unit operations and batch, continuous, and semi-batch processes. Digital design support allows for reduced material costs with the help of real-time machine learning and has very strong support for industry 4.0.

Analytical and quality processes, product efficacy quality, and safety are vital in pharma manufacturing and unit operations. The conference has provided me with vital knowledge, and it is amazing to know that constant innovation has a strong foothold and is always called upon for the betterment of the industry. As a current year 3 student studying Pharmaceutical Engineering, the conference complements my academic journey so far.
As the VP of ISPE-SC, attending this conference was a once in a lifetime chance as a student. This reminds me of the important work the ISPE adults and students chapter does for the betterment of professionals and students all around the globe. This conference has inspired me and given me insights that will be unforgettable and is something to take note of as I transition from a student to a working adult.
I would like to thank @ISPE Singapore Affiliate for this rare opportunity to hear from an amazing group of speakers.

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Process Development and Manufacturing Optimisation for Biopharma using Predictive Model Driven Monitoring, Control and Maintenance
David Lovett: APG Pharma Chief Strategy Officer
Applied Materials
ISPE Singapore Conference 2021
25th Aug 2021
DAVID LOVETT
APPLIED MATERIALS