PAT SCHOOL
7-9 November 2023

NIR for blending monitoring from theory to practice

In all the manufacturing fields, blending is a critical step and optimization requires deep knowledge of the process for ensuring the blend uniformity of the final product. Sampling by "thief" causes significant process perturbation and the FDA is therefore pushing hard to move from process validation to continuous process verification.

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DAY 1

Time	Topic
10.30-11.00	**Introduction and welcome coffee**
11.00-12.00	**NIR theory and multivariate analysis** *Emiliano Genorini, MicroNIR Account Manager at VIAVI Solutions*
12.00-13.00	**Blending process: theory principles and process scale-up NIR aided: theory and process case study** *Giusi Mondelli, Process Technologist at IMA Active Laboratory*
13.00-14.15	Lunch
14.15-15.00	**Chemometrics tools for blending monitoring (MBSD and PCA)** *Eleonora Mustorgi, MicroNIR Application Specialist at VIAVI Solutions*
15.00-17.15	**Practical session:** **MicroNIR set up applied to blenders** **Blending Demo (including sensor mounting) using a MicroNIR** **PAT-tour**

DAY 2

Time	Topic
9.00-10.00	**Blending scale-up case study: interpretation of data from process perspective** *Giusi Mondelli, Process Technologist at IMA Active Laboratory*
10.00-11.00	**Blending process and scale-up case study: interpretation of data from engineering perspective** *Lorenzo Menarini, R&D Process Engineer at IMA Active*
11.00-11.15	**Coffee break**
11.15-12.00	**Quantitative approaches: why not a quantitative analysis? Regulatory aspects** *Emiliano Genorini, MicroNIR Account Manager at VIAVI Solutions*
12.00-12.45	**OPC communication for process integration** *Emiliano Genorini, MicroNIR Account Manager at VIAVI Solutions: and Marco Minardi, Automation Manager at IMA Active*
12.45-14.00	Lunch
14.00-14.30	**Raw materials identification and data base** *Eleonora Mustorgi, MicroNIR Application Specialist at VIAVI Solutions and Emiliano Genorini, MicroNIR Account Manager at VIAVI Solutions*
14.30-17.00	**Practical session:** **Raw materials identification MicroNIR OnSite-W for raw materials identification (RMID)** **Production scale process on Roto Mix HSMG**

DAY 3

9 November 2023

Time	Topic
09.00-10.00	**Real time monitoring with automated integration and Golden Batch** *Marco Minardi, Automation Manager at IMA Active*
10.00-11.30	**Advanced algorithms for blending monitoring (MCR and Rolling PCA)** *Eleonora Mustorgi, MicroNIR Application Specialist at VIAVI Solutions*
11.30-12.00	**PAT implementation on existing IMA blenders at customer's site** *Lorenzo Menarini, R&D Process Engineer at IMA Active*
12.00-13.00	**Round table**
13.00-14.30	**Buffet lunch and time for dedicated discussion**

Location
IMA Centro Servizi and IMA R&D Laboratory
Via Emilia, 237 - 40064 Ozzano dell'Emilia (Bologna), Italy

Registrations
In order to guarantee you an exclusive and focused experience, the number of participants is restricted.
We kindly ask you to apply for the event not later then October 18th, 2023 at
https://ima.it/pharma/pat-school/
After we receive your application, your registration will be confirmed in writing.

Hotel accommodation
Here some suggested hotels you can book:
▬ PHI Hotel Emilia (5 min by foot from IMA)
https://www.phihotelemilia.com
▬ Living Place Hotel (15 km far from IMA)
https://www.livingplacehotelbologna.com

▬ Palazzo di Varignana (8 km far from IMA)
https://www.palazzodivarignana.com

PLEASE NOTE: DUE TO AN IMPORTANT EXHIBITION THAT WILL BE HELD IN BOLOGNA
FROM NOVEMBER 7, 2023 TO NOVEMBER 9, 2023 WE STRONGLY SUGGEST YOU TO BOOK
YOUR HOTEL AS SOON AS POSSIBLE.

Fees
The workshop participation fee is € 1,980 which includes seminar documents and materials,
lunches and coffee breaks.

Transports
All the transfers that are not mentioned in this document are at your charge
and should be organized by yourself.

After the event
You will receive a certificate confirming your participation. Furthermore, we would like to
ask you to fill-in our evaluation sheet to make sure we get better every time.

Information
For any further information please send an email to: marketing.active.it@ima.it

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