

2025, APRIL 1-3

FREUND EUROPEAN LAB

VIA E. MATTEI, 2, 20852
VILLASANTA, ITALY



2025

IN-PERSON TECHNICAL SEMINAR...

Focusing on Granulation & Coating Technologies

 **FREUND**



OVERVIEW

FREUND

Since 1964, The FREUND group has been a global leader of processing solutions for powders, particles, beads, pellets, tablets, and other solid materials for industries including pharmaceutical, nutraceutical, food, industrial, energy, and many more.

Applications include wet and dry granulation, drying, agglomerating, coatings, layering, instantizing, densification, and powder handling.

WHY ATTEND?

In our workshop, participants will actively participate in a practical and theoretical introduction to solid material processing. A comparison overview of fluid bed granulation and coating, high shear wet granulation, roll compaction dry granulation, tablet pan coating and spray drying will be presented and demonstrated.



AGENDA

DAY ONE | Tuesday, 2025, April 1

It's a Matter of Understanding!		
8:30am to 8:45 am	Welcome/Introductions	Raffaella Colombo
8:45 am to 9:30 am	High Shear Technology: Wet Granulation & Milling <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Giuseppe Buratti
9:30 am to 10:15 am	Fluid Bed Technology: Top Spray Granulation <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Jonathan Scotti
10:15 am to 10:30 am	Break	
10:30 am to 11:15 am	Roll Compaction Technology: Dry Granulation <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Garrett Alfred
11:15 am to 12:00 pm	NIR PAT Applications for Process Monitoring <ul style="list-style-type: none"> • Moisture • Particle Size Distribution • Film Thickness 	Emiliano Genorini Viavi Solutions
12:00 pm to 13:00 pm	Catered Lunch	
LAB SESSIONS 13:00 pm - 17:00 pm		
	High Shear Wet Granulation <ul style="list-style-type: none"> • Proper Equipment Set-Up • Wet Milling • Fluid Bed Drying • Product Analysis (LOD Analysis) 	Giuseppe Buratti
	Fluid Bed: Top Spray Granulation + PAT <ul style="list-style-type: none"> • Proper Equipment Set-Up • Proper Product Movement • Process Optimization • Product Analysis (QICPIC + NIR Moisture and PSD) 	Jonathan Scotti
	Roll Compaction: Dry Granulation <ul style="list-style-type: none"> • Dry Milling • Process Optimization • Product Analysis (QICPIC) 	Garrett Alfred
17:00 pm	Wrap Up/Leave for Hotel	
19:00 pm	Dinner at LaBergamina Restaurant	

AGENDA

DAY TWO | Wednesday, 2025, April 2

It's a Matter of Understanding!		
8:30 am to 9:15 am	Fluid Bed Technology: Wurster Spray Coating <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Jonathan Scotti
9:15 am to 10:00 am	Fluid Bed Technology: GXR Rotor Processor Coating of Multi-Particulates <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Garrett Alfred
10:00 am to 10:15 am	Break	
10:15 am to 11:15 am	Basics of Film Coating Formulation: <ul style="list-style-type: none"> • Basic Formulation Ingredients – Polymers, Plasticizers, Colorants and Solvents 	Alberto Genovesi Colorcon
11:15 am to 12:00 pm	Excipients for granulation: State of the Art and Future Directions: <ul style="list-style-type: none"> • Selection of Excipients • Use of Binders, Fillers, Glidants, Lubricants & Disintegrants 	Prof. Anna Scomparin University of Torino
12:00 pm to 12:30 pm	Spray Drying Technology <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design 	Garrett Alfred
12:30 pm to 13:30 pm	Catered Lunch	
LAB SESSIONS 13:30 pm - 16:30 pm		
	Fluid Bed: Wurster (Bottom) Spray Coating <ul style="list-style-type: none"> • Proper Equipment Set-Up • Proper Product Movement • Process Optimization • Product Analysis (QICPIC) 	Jonathan Scotti
	Fluid Bed: Rotor Powder Layering <ul style="list-style-type: none"> • Proper Product Movement • Proper Spray System Set-Up • Process Optimization • Product Analysis (QICPIC) 	Garrett Alfred
16:30 pm	Wrap Up	
18:30 pm	Campari Tour/Dinner	

AGENDA

DAY THREE | Thursday, 2025, April 3

It's a Matter of Understanding!		
8:30 am to 9:15 am	Perforated Pan Coating Technology <ul style="list-style-type: none"> • Applications • Process Principles • Equipment Design • Scale-Up and Optimization 	Giuseppe Buratti
9:15 am to 10:00 am	Equipment and Process Trouble Shooting <ul style="list-style-type: none"> • Granulation Processes and Equipment • Coating Processes and Equipment 	Garrett Alfred
LAB SESSIONS 10:00 am - 13:00 pm		
Tablet Pan Coating + NIR <ul style="list-style-type: none"> • Proper Equipment Set-Up • Proper Product Movement • Process Optimization • NIR Film Thickness Analysis 		Giuseppe Buratti Jonathan Scotti
Spray Drying <ul style="list-style-type: none"> • Proper Atomization Techniques • Proper Spray System Set-Up • Process Optimization • Product Analysis (QICPIC) 		Garrett Alfred
13:00 pm to 14:00 pm	Catered Lunch/Seminar Complete	



LIST OF PRESENTERS



Raffaella Colombo

International Sales Manager

raffaella.colombo@freundglobal.com

Raffaella's background is in the packaging equipment for the pharma industry and has been working in that industry for more than 10 years. She was with our sister company FRUEND S.r.l for six years before joining FREUND Inc. six years ago. She has a degree in Foreign Languages and Literatures by IULM University in Milan, and can speak six languages: English, Russian, French, German, Italian and very basic Modern Chinese. With over 35 years of sales experience, Raffaella enjoys talking with customers and figuring out the right solutions for their products.



Giuseppe Buratti

Deputy Branch Manager

giuseppe.buratti@freundglobal.com

Having graduated in industrial chemistry, Giuseppe took his first steps in the pharmaceutical industry as an analyst of formulations intended for clinical trials. He has been involved in formulation and development of oral solid forms for approximately 25 years as well as scaling up and technology transfer from laboratory to industrial scale. Since 2016, he has been working at the FREUND Inc. European Laboratory and is involved in the development of processes for customer support and equipment demonstration for the pharmaceutical, nutritional, chemical, and nuclear sectors. He contributed to company visibility by publishing posters and scientific articles.



Jonathan Scotti

Junior Process Development Scientist

jonathan.scotti@freundglobal.com

Jonathan Scotti achieved the master's degree in Pharmaceutical Chemistry and Technology in 2024. While completing his studies, he worked on a project in collaboration with the department of Pharmaceutical Technology of the University of Milan and FREUND Inc. involving the equipment of Fluid Bed Dryer and the techniques of Solution Coating and Powder layering. The experience he had during this period highlighted his interest in the field and at the end of 2024, he joined FREUND Inc. European Laboratory as Junior Process Development Scientist.



Garrett Alfred

Technical Sales Manager

garrett.alfred@freundglobal.com

Garrett is the Technical Sales Manager at FREUND Inc. and has been with the company since 2018. He works with customers in a variety of customized applications to ensure the machines they purchase are suited to their specific needs. Prior to sales, he worked in the lab as a process development scientist, working with customers in-house and in the field on new process and product developments. He graduated from the University of Iowa with a BS in chemical engineering.

LIST OF PRESENTERS



Emiliano Genorini

Account Manager, EMEA & LATAM - MicroNIR, Viavi
emiliano.genorini@viavisolutions.com

Dr. Emiliano Genorini (*1973) has a degree in chemistry with a specialization in analytical chemistry of environmental pollutants. He has more than 20 years of experience in the field of NIR spectroscopy and extensive market knowledge in the pharmaceutical and food industries. After working for manufacturers of various top instrument brands, he has been responsible for the EMEA and LATAM regions for VIAVI Solutions as an account manager since 2015. Since 2003 he has been an honorary professor of chemometrics at the Universities of Milan and Pavia.



Anna Scomparin

Associate Professor, University of Torino
anna.scomparin@unito.it

Anna Scomparin holds a M.Sc. degree in Pharmaceutical Chemistry and Technology (2006) and a Ph.D. in Molecular Sciences (2010) from the University of Padova. Since 2021 she is an Associate Professor in Pharmaceutical Technology at the Department of Drug Science and Technology at the University of Torino. Anna's research focuses on the development of polymer-based nanomedicines, including polymer therapeutics, polyplexes, and nanoparticles for cancer vaccination. Furthermore, Anna is working on the development of polysaccharide-based granules and orodispersible dosage forms for paediatric formulations.



Alberto Genovesi

Senior Area Technical Manager, Colorcon
agenovesi@colorcon.com

Alberto Genovesi obtained the degree in Pharmaceutical Chemistry and Pharmaceutical Technology at the University of Bologna. Since 2005 he works as Senior Technical Manager for Colorcon. On his role, he has a technical responsibility of Italy, Greece, Malta, Cyprus, Israel and Italian speaking part of Switzerland.

Prior to Colorcon, he worked in a Pharmaceutical Company as R&D process development Scientist and for a Manufacturing Equipment Supplier as R&D Manager specialised on Film Coating and Granulation Technology supporting Customers with in-house and on the field trials.

INTERNATIONAL SALES

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STAY CONNECTED

We are always here for you to answer questions or talk solutions for current or upcoming projects!

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FREUND Inc. Granulation & Coating Technology Seminar

1-3 April, 2025

REGISTRATION FORM *(editable PDF)*

Name: _____

Title: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Bus.Tel: _____

Email: _____

SEMINAR FEE: €950.00

Dietary Restrictions: Y N

If Yes, Please Explain: _____

Bank Wire (Payable to FREUND Inc.)

Credit Card

VISA Master Card American Express Security Code: _____

Card # _____ Exp. Date: _____ (mm/yy)

Cardholder's Name: (Please Print) _____

Signature: _____ Zip Code: _____

Return Registration Form:
email: matt.winkler@freundglobal.com

