

Pharmaceutical Science & Technology Seminar 2023

Theme: *Advances in Technology Science and Research*

Venue: Raffles Town Club (RTC), 1 Plymouth Avenue, Singapore 297753

24 – 27 May 2023

Objective:

This seminar provides an updated comprehensive overview of the latest advances in pharmaceutical science and manufacturing technologies for dosage form design through concise lectures by the experts. Participants will gain useful insights in industry-relevant research and the art on preparation and characterization of pharmaceutical dosage forms, particularly solids, for the healthcare sector.

Who Should Attend:

Personnel involved in pharmaceutical science, R&D and manufacture of pharmaceutical products:

- ✓ *Pharmaceutical education and research*
- ✓ *Production / QA / QC*
- ✓ *Product formulation and development*
- ✓ *Contract manufacturing*
- ✓ *Regulation and marketing*

Note:

- Presentation materials will be supplied
- Daily lunches and teas will be provided
- Complimentary networking dinner: 25 May 2023

Programme:

24 May 2023

0800-0830 Hr: Registration (RTC) 0830-1800 Hr: Lectures (RTC)

25 May 2023

0830-1800 Hr: Lectures (RTC)

1900-2100 Hr: Gala Dinner / Celebration of GEA-NUS 25th Anniversary (St Regis Singapore)

26 May 2023

0830-1800 Hr: Lectures (RTC)

27 May 2023 (Courtesy of Shimadzu)

0900-1100 Hr: Visit to Shimadzu (Asia Pacific) Application Development & Support Centre,

Singapore Science Park 1 1200 Hr onwards: Half-day Singapore City Tour

Lectures:

- Basics of batch granulation. *TBD, GEA Process Engineering*
- Dry granulation – How does using roller compaction reduce costs. *Fraser Gow, Alexanderwerk*
- Technology advancements in pharma solids processing. *Yeswanth Suryadevara, GEA Process Engineering*
- Process optimisation, scale-up and cleaning of batch wet granulation equipment and systems. *Dilwyn Patterson, Consultant*
- Recent lactose developments and advances in solid dosage form production. *Thomas Pilgram, Meggle*
- Advances in mannitol as an excipient. *Chow Keat Theng, Roquette Asia Pacific Innovation Center*
- Recent innovations in pharmaceutical formulation and film coating. *Glenn Russell, Colorcon*
- Influence of compression tooling on manufacturing success – from development to production. *Parthiban Anbalagan, Natoli Engineering*
- The use of compaction simulator during the whole tablet lifecycle. *Bruno Villa, MedelPharm*
- Structure-property of pharmaceutical solids. *Cai Ting, China Pharmaceutical University*
- Taking a deep dive into factors affecting drug release from amorphous solid dispersions. *Hiew Tze Ning, University of Iowa*
- Formulation development of drug stability improvement by HME process and DOE approach. *Neo Li Xiaohai, STA PDS*
- Developing poorly water soluble NCEs faster: strategies and case studies. *Wang Likun, Nanjing HaiWei*
- A study on the development of once-a-week transdermal patch containing donepezil. *Park Eun-seok, Sungkyunkwan University*
- Putting patients first: Enabling value-added formulations for improved patient outcomes and customer appeal. *Tan Bing Xun, Roquette Asia Pacific Innovation Center*
- Design of extrusion-spheronization pellets. *Celine Liew, Monash University Malaysia*
- Powder flow and specialty tablets. *TBD, GEA Process Engineering*
- Design of diminutive granules for minitablets production. *Loo Shang Jun, National University of Singapore*
- Development of cushioning filler for MUPS tablet. *Maria Lucia Ardhani Dwi Lestari, Airlangga University*
- Measuring fast disintegration – Introduction to visometric disintegration tester. *Audrey Zheng Yi, National University of Singapore*
- Novel complex dosage forms in drug delivery: do we need a new biopredictive toolbox? *Matthias G Wacker, National University of Singapore*
- Meeting regulatory challenges in pharma. *Kanimozhi Sivarajan, Shimadzu (Asia Pacific)*

- Artificial intelligence and expert systems in pharmaceutical applications. *Metin Celik, PTI*
- Global pharmaceutical supply chain - research to commercialisation. *Oh Ching Mien, Zuellig Pharma*
- Isolation of oleanolic acid from *Clematis armandii* for differentiation from adulterants by HPTLC/HPLC. *Ha Minh Hien, Institute of Drug Quality Control - HCMC*
- Impurity identification and quantification. *Liw Wan Tung, Shimadzu(Asia Pacific)*
- Methodology and application of process analytical technology (PAT) for traditional Chinese medicine manufacturing. *HongxiaHuang, Zhejiang University City College*
- Precision medicine: Critical roles of pharmaceutical technologists. *Wong Tin Wui, University Technology MARA*
- Pharma spray drying, *David Costes, GEA Process Engineering*
- Intelligent manufacturing technology for personalized traditional Chinese medicine preparation. *Yanlong Hong, Shanghai University of TCM*
- Resorbable polymer for long-acting injections - Essential considerations to accelerate drug development projects. *Lee ChinChiat, Corbion*
- Lipid-based nanocarriers for precise drug delivery. *Changyou Zhan, Fudan University*
- Enhancing bioavailability using lipid-based formulation. *OuyangHongyi, Gattefosse.*
- Recent advances of functional peptides in medical applications. *Zhu Yishen, Nanjing Technical University*
- Evaluation of diversity and variability of excipients based on functional indexes and their transmission rules in direct compression tablet formulations and products of traditional Chinese medicine. *Lan Shen, Shanghai University of TCM*

Registration Fee(net):

SGD 390 per person;

[after 8 May 2023, SGD 500]

Registration Fee(net):

1. Fee is inclusive of the cost for workshop materials, refreshments and lunches.
2. Acceptance of registration will be notified by e-mail.
3. Fee paid is non-refundable but the registered participant may nominate a substitute.
4. Payment by crossed cheque, bank draft or telegraphic transfer is acceptable.

In celebration of 25 years of technology science & research
 “It’s not years that count, it’s the life in the years”

Adapted from quote by Abraham Lincoln

REGISTRATION FORM & QUERIES

to: secretary@sperpharma.org

Organizer: Geanus Technology, Singapore

Co-organizer: Society of Pharmaceutical Education & Research (SPER), India