

GEA-NUS PHARMACEUTICAL  
PROCESSING RESEARCH LABORATORY  
&  
MEDELPHARM

present

**Workshop on Compaction Simulation**  
*Small Group Workshop – Theory & Practice*

“Complete & Innovative Solutions to the Art of  
Compaction”

Workshop Venue: GEA-NUS PPRL, Pharmacy, NUS

**25 – 27 September 2017**

*Programme:*

*Theory & Practice*

0900 – 1800 Hr, 25 - 26 Sept 2017

0900 – 1400 Hr, 27 Sept 2017

*Complimentary Networking Dinner*

1830 - 2100 Hr, Tuesday 26 Sept 2017

*Objective:*

This workshop on compaction simulation follows a series of highly successful hands-on workshops on pharmaceutical processing science and technology. The workshop is designed to give a comprehensive overview of tablet preparation technologies through lectures, small group hands-on practice and demonstrations. There will be opportunities to apply theoretical knowledge to compaction and understand the mechanics of compaction. Simulation of bilayer tableting and roller compaction will be covered.

*Who Should Attend:*

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

- ✓ Quality assurance/ Quality control
- ✓ Product formulation and development
- ✓ Production, Contract manufacturing
- ✓ Pharmaceutical excipient marketers

*Course Conductors:*

*Bruno Leclercq, MedelPharm, France*

**Bruno Leclercq** is a senior pharmacist working in business development at Medelpharm, a company dedicated to a continuous search for innovative solutions in powder compression and processing technologies. Bruno is an experienced pharmaceutical technical manager with extensive knowledge in solid form technology and processes. He has more than 15 years of international experience in meeting, advising and solving customers' formulations and production problems in Europe, SEA and the US.

*Regis Cazes, MedelPharm, France*

**Regis Cazes** is the strategic marketing director at Medelpharm. He is in charge of global business development of the fully instrumented Styl'One™ R&D press. Previously, he worked in the excipient business of Seppic for 10 years, first in film coating as national sales manager, then as head of the marketing and development team. His areas of expertise include coating, modelling of hydrophilic matrices, excipients, tablet press instrumentation, compression and tablet characterizations. Regis has an engineer diploma (MS) in physico-chemistry from the Graduate School of Bordeaux, France, and holds a MBA from the University of Lyon, France.

*Paul Heng, National University of Singapore*

**Paul Heng** has a degree in Pharmacy and a PhD degree in pharmaceutical technology from NUS. He is currently teaching at the NUS and is the Principal Investigator of GEA-NUS PPRL. His research interest is in pharmaceutical technologies, with focus on encapsulation, delivery systems, particle engineering and characterization, compaction and solid processing. He has published over 250 international refereed research articles and several book chapters among others. He is the editor-in-chief of the Asian J Pharm Sci and member of several other editorial boards.

*Notes:*

- Course materials will be supplied
- Daily lunches and teas will be provided
- Limited class size; registration subjected to availability & on a first-come-first-served basis

**WORKSHOP PROGRAMME**

*Theory:*

- The mechanics of tableting
- Styl'One: a compaction simulator for R&D
- Analysis of compaction data with Analis software
- Roller compaction formulation development using the Styl'One
- Sticking problems and how to assess sticking
- Ejection force: use of lubricants and how to assess ejection forces
- Solving other common tableting issues
- Opportunities with the compaction simulator

*Practice:*

- Styl'One features and advantages compared to other tablet presses
- Mimicking rotary tablet presses on Styl'One
- Heckel plot
- Compaction - granule porosity
- Sticking studies
- Bilayer tablets, multilayer + GMP production module

*I hear and I forget. I see and I remember. I do and I understand.* **Chinese Proverb**

**Please note:** Information provided is only a guide for the workshop. Workshop content may be modified, in cases of unforeseen circumstances.



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