

CHEMICAL & BIOMOLECULAR ENGINEERING

Center for Biomanufacturing  
Science & Technology

# CBST SEMINAR

Thursday, March 21, 2019

366 Colburn Lab

2:00 p.m.



## Raymond Lau Wai Man

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Singapore

Dry powder inhalation continues to be the demanding measure of drug administration in pharmaceutical industry. The number of asthma and chronic obstructive disease incidents are rising and the improvement of the therapies remains the main concern for the treatment. Generally, dry powder formulations are comprised of the micronized drug particles and coarse carrier particles in a blend form. Efficient delivery of drug particles is most critical to the successful development of dry powder formulation. This talk introduces the applications of particle engineering in the design and development of drug carriers for improved delivery efficiency.

Dr. Raymond Lau is an associate professor at the School of Chemical and Biomedical Engineering. He received his Ph.D. degree in Chemical Engineering at the Ohio State University. His research in multiphase flow system focuses on apply the fundamental principles to various applications in healthcare, energy, and process development. His current research interest is to apply particle engineering for inhaled delivery of powder drugs. He is currently serving as the associate executive editor of *Advanced Powder Technology* by Elsevier Science.



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