Abstract

The multibillion-dollar sales of drugs make the pharmaceutical industry one of the most important pillars in the world economy. However, many of the pharmaceutical manufacturing processes have been designed empirically and known to be more of an art than science. Experimental research with process equipment are frequently expensive, time consuming and sometimes even dangerous. In such cases computer models can supplement and partially replace the experimental needs. This talk will entail systematic experiments and development of multi-scale computer models of pharmaceutical manufacturing processes and drug delivery systems.

Biography

Bodhi Chaudhuri is an Associate Professor of Pharmaceutics, Chemical Engineering and Material Sciences at UConn. He got his PhD in Mechanical Engineering from NJIT after obtaining his MS and BS both in Chemical Engineering from IISc, Bangalore and Jadavpur University, respectively. He performed postdoctoral research in Pharmaceutical Engineering at Rutgers University and has 3 years of industrial experience. He has published more than 60 peer-reviewed journal articles, book chapters, conference proceedings and delivered 30 invited talks. He acts as an editorial board member for Advanced Powder Technology, JPS, AJPS and several other international journals. His research has been funded by NIH, NSF, FDA, American Cancer Society, PhRMA, Pfizer, Genentec, BI, Astrazeneca, and several other pharmaceutical companies. He regularly consults pharmaceutical, biotechnology, and engineering companies. He received Young Investigator Award from US-FDA and several other prestigious awards.