



Center for Nanoscale
Chemical-Electrical-Mechanical
Manufacturing Systems

Macro Issues with Nano/Micro Particles for Drug Delivery

Nano/micro particles have been used for decades as carriers for drug delivery. Most of the current nano/micro particles are made of emulsion technology, resulting in a number of limitations. Recent advances in nanofabrication have allowed preparation of nano/micro particles with homogeneous size distribution. While the advances have been significant, nanofabrication methods need further improvement for effective drug delivery and for scale-up production.

This presentation deals with the issues related to current nanofabrication approach for preparation of nano/micro particles for drug delivery. This presentation will also describe our recent approach on nanofabrication of drug delivery particles based on natural polymers.



Wednesday, Oct. 1, 2008

4:00 PM

**1000 Micro and Nanotechnology
Laboratory**

Kinam Park, Ph.D.

**Showalter Distinguished Professor of Biomedical Engineering
Professor of Pharmaceutics
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Kinam Park received his Ph.D. degree in pharmaceutics from the University of Wisconsin in 1983. After two years of postdoctoral training in chemical engineering at the same university, he joined the faculty of Purdue University in 1986 and was promoted to Full Professor of Pharmaceutics in 1994. Since 1998, he has had a joint appointment in the Weldon School of Biomedical Engineering, and he became Purdue's Showalter Distinguished Professor of Biomedical Engineering in 2006.

He is the Editor-in-Chief of the Journal of Controlled Release and a member of the editorial boards of a dozen journals. His research has been focused on applications of various polymers and hydrogels for biomaterials and drug delivery. His current research is focused on nanofabrication of nano/micro particles for drug delivery.