

# AAPS Update

THE PHARMACEUTICAL SCIENTISTS' SOURCE FOR TOP EXPERTS, INNOVATIVE PROGRAMS, AND KEY NETWORKING!

April 2003

## AAPS Offers Distance Learning Opportunities

AAPS Distance Learning offers a growing selection of continuing education opportunities in the form of multi-media CD-ROMs and on-demand Webcasts, covering a variety of topics in the pharmaceutical sciences. Our distance learning offerings enable you to enhance your professional development from the comfort of your home or office, with no concerns about travel, lodging, or time away from work or family.

Visit [www.aapspharmaceutica.com/DL](http://www.aapspharmaceutica.com/DL) for complete details on all of the AAPS Distance Learning products including:

### Advances in Pulmonary Drug Delivery

*Presenter: Anthony J. Hickey, Ph.D.*

*Professor of Drug Delivery and Disposition in the School of Pharmacy and Adjunct Professor of Biomedical Engineering and Mathematics in the School of Medicine at the University of North Carolina at Chapel Hill.*

The development of new drug delivery technologies and techniques is at the forefront of R&D. These technologies enable safer and more effective delivery of drug products and can often reduce side effects and increase cost effectiveness. Drug delivery systems and formulations have become an essential part of the development process. As these new technologies emerge, they open a wide range of new opportunities.

This CD-ROM short course will cover the recent advances in pulmonary drug delivery, to include physical, chemical, and biological considerations, plus current and prospective approaches. General topic areas include physico-chemical properties of aerosols, mechanics of dispersion, deposition, and clearance.

Members: \$175; Non-members: \$262

### The Basics of Prodrugs

*Presenter: Kenneth B. Sloan, Ph.D.*

*Department of Medicinal Chemistry University of Florida*

Prodrugs are pharmacologically inactive derivatives of an active drug designed to ameliorate some identified, undesirable physical or biological property. The physical properties are usually solubility (too much or not enough lipid or aqueous solubility) or stability related, while problematic biological properties include too rapid metabolism or poor bioavailability which itself may be related to a physicochemical property.

For each undesirable property a functional group(s) can usually be identified as being a major source of the undesirable property. A moiety comprised of functional groups designed to change that property is then transiently attached to the problematic functional group with an enabling group that releases the active drug at the appropriate time.

This text and graphics instructional program will provide insights into implementing these steps in the development of a prodrug approach. The respective advantages of alkyl and acyl moieties in the design of drugs will be discussed. The importance of the inclusion of lipid and aqueous solubility considerations in the design of the prodrug will be discussed. Finally, examples of the use of prodrugs to improve topical and oral delivery and extrapolation of animal models to human applications will be given.

Members: \$150; Non-members: \$225

## About AAPS Webcasts

AAPS Distance Learning has archived a series of webcasts from workshops conducted during the year and from the Annual Meeting in Toronto. Our partial lineup includes:

- ▶ Address of the 2003 AAPS President, Vinod Shah, Ph.D.
- ▶ Presentations from the 2002 Research Achievement Award Roundtables
- ▶ A seminar on Bioterrorism, by Catherine A. White, Ph.D., University of Georgia, College of Pharmacy

Plus many others!

For an up-to-date listing of archive webcasts, visit [www.aapspharmaceutica.com/DL](http://www.aapspharmaceutica.com/DL).

## Calling All Authors!

AAPS has launched a new book program called AAPS Press. Whether you're an established author, or a recently minted Ph.D. with research to discuss, send AAPS Press your manuscript and AAPS Press will share it with the world.

Visit [www.aapspharmaceutica.com/news/press](http://www.aapspharmaceutica.com/news/press) for AAPS Guidelines for Book Proposals a listing of current AAPS Press book titles. To learn more about this groundbreaking book program, contact the AAPS Director of Publications, Victor Van Beuren at 703-248-4760 or [VanBeurenV@aaps.org](mailto:VanBeurenV@aaps.org).

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## AAPS Pharmaceutical Technologies Summer Conference: Advances in Wet Granulation Technology for Solid Oral Dosage Forms

This is a teaching conference for scientists involved in solid dosage formulation and process development. It is being held June 8-13, 2003 at the National Conference Center in Lansdowne, VA. Wet granulation is a widely used technology in the development of oral immediate and controlled release dosage form, yet not in the core curriculum in pharmacy and engineering programs. This conference addresses issues related to wet granulation in-depth and the fundamentals, applications and recent advances in granulation technologies in the pharmaceutical industry. It is located in a secluded setting to enhance opportunity for attendee interaction and discussion with leading experts in the field.

### Workshop Objectives:

- ▶ Provide a forum to discuss theory, application and recent advances in wet granulation technologies.
- ▶ Provide scientists with fundamentals of granulation and knowledge of different granulation processes such as high shear, fluid bed top-spray and wurster coating.
- ▶ Learn scale-up and process optimization.
- ▶ Discuss advances in determination of granulation end point, and monitoring of in-process controls in product development.

### Workshop Attributes:

- ▶ Gain information on recent advances in monitoring and process control
- ▶ Hear speakers from pharmaceutical and process equipment companies and academia
- ▶ Case studies of granulation technologies, including precision layering and continuous granulation
- ▶ Exhibits from process equipment companies in granulation technologies.
- ▶ Participation is limited—please register early!

## AAPS Pharmaceutical Technologies Conference: Advances in Pharmaceutical Processing

This conference, being held June 19-20, 2003 in the Hilton Parsippany, Parsippany, NJ, focuses on areas of interest to those in pharmaceutical development. Mid-level and junior scientists and graduate students are encouraged to attend and network with academic, industrial and regulatory scientists present.

### Conference Objectives:

- ▶ Gain knowledge on a broad range of pharmaceutical technologies
- ▶ Provide a forum for pharmaceutical scientists of all levels and students to learn about and exchange ideas on pharmaceutical processing

### Conference Topics:

- ▶ Industrial, academic and regulatory perspectives on Process Analytical Technologies
- ▶ Applications of Process Analytical Technologies
- ▶ Presentations by academic and industrial scientists on issues of solids modifications
- ▶ Updates on excipient functionality and harmonization
- ▶ Presentations on artificial intelligence and expert systems in formulation studies
- ▶ Presentations by academic and industrial scientists on processing of proteins and microencapsulation.

## Upcoming AAPS Meetings

Log onto [www.aapspharmaceutica.com/meetings](http://www.aapspharmaceutica.com/meetings) for the latest meeting news and registration details.

### ▶ April 30-May 2 2003

AAPS Workshop on Particle Size Analysis  
Co-Sponsored with FDA, PQRI and USP  
Crystal Gateway Marriott, Arlington, VA

### ▶ May 12-13 2003

AAPS Workshop on Bioanalytical Method Validation for Macromolecules in Support of Pharmacokinetic Studies  
JW Marriott Hotel, Washington DC

### ▶ May 19-21 2003

AAPS Workshop on Pharmaceutical Profiling in Drug Discovery for Lead Selection  
Hanover Marriott, Whippany, NJ

### ▶ June 8-13 2003

AAPS Pharmaceutical Technologies Summer Conference: Advances in Wet Granulation Technology for Solid Oral Dosage Forms  
The National Conference Center, Lansdowne, VA

### ▶ June 19-20 2003

AAPS Pharmaceutical Technologies Conference: Advances in Pharmaceutical Processing  
Hilton Parsippany, Parsippany, NJ

### ▶ October 26-30 2003

2003 AAPS Annual Meeting and Exposition  
Salt Palace Convention Center, Salt Lake City, UT

