

AAPS Connection

American Association of Pharmaceutical Scientists

January 2013

Put AAPS to Work for Your Success Today!

FREE and Exclusive AAPS Member Benefits

- Full year subscription to the *AAPS Newsmagazine*, AAPS's flagship publication
- Participation in over 30 live AAPS webinars, conducted on a variety of topics
- Deep AAPS member discounts on meeting and conference registrations
- Full article access to the three official AAPS journals: *Pharmaceutical Research*, *The AAPS Journal*, *AAPS PharmSciTech*
- Admission to the AAPS member directory
- Membership in any of the nine AAPS sections
- Access to explore the latest emerging research via AAPS Press, available only to AAPS members
- Ability to get involved and take advantage of leadership opportunities by volunteering to serve in an AAPS committee

Additional Benefits at Your Fingertips

- AAPS focus groups, discussion groups, and student chapters
- Funding and recognition through AAPS awards, fellowships, and travelships
- Opportunities to meet the best in the field at the AAPS Annual Meeting and Exposition
- Discussion across disciplines at the AAPS National Biotechnology Conference
- Continued learning through AAPS workshops and short courses

- Training from home or office through the AAPS Distance Learning Programs
- Career development and advice through the *Careers* magazine
- Job postings and résumés at the AAPS Online Career Center

Visit us at www.aasp.org/membership.

48th Annual AAPS Arden Conference: Pharmaceutical Materials Science and Engineering—Mechanical Characterization and Predictive Tools for Rapid Drug Product Development

March 4–6, 2013

USP Meetings Center, Rockville, MD

Over the last decade, pharmaceutical materials science has established itself as the foundation for quality-by-design (QBD) product development, and significant advances in the application of materials science have been made to understand the functionality of excipients and active pharmaceutical ingredients and how they influence the performance of formulations. Mathematical modeling can lend considerable insight and predictive ability to aid in development of difficult formulations, e.g., high drug loading, complex tablet shapes, or multilayer tablets. Both qualitative insight as well as quantitative modeling and prediction are possible when accurate material properties are known and their combined influence in a multicomponent formulation can be understood theoretically and empirically.

The implementation of QbD in pharmaceutical tablet product development has been largely relying on statistical approach, i.e., design of experiments (DOE). Although useful in identifying a design space, DOE typically is resource intensive and does not provide mechanistic understanding of the performance of a formulation. A seamless integration between materials science and DOE is a key for truly achieving QbD in product development.

In this conference, key materials science and engineering principles applicable to tablet design will be covered, e.g., relationship between mechanical properties and compaction behavior, crystal and particle engineering for superior tableting performance, powder flow measurement. This conference will provide formulation scientists with both basic knowledge in materials science and advanced techniques that can be used to facilitate the design of tablet product.

Goals and Objectives

- Review fundamental mechanical properties of pharmaceutical solids and the methods to measure them.
- Review theoretical modeling of particle mixing and simulation tools of powder compaction.
- Apply mechanical properties in drug product development following a (QbD) approach.

For more information visit www.aaps.org/Arden.

AAPS Workshop on Drug Transporters in ADME: From the Bench to the Bedside

March 17–20, 2013

Bethesda North Marriott Conference Center Bethesda, MD

This workshop will deliver cutting-edge science in a focused and state-of-the-art meeting. Key areas of focus will include

- the impact of drug molecules on physiological processes mediated by transporters,
- regulation of transporter expression and function in health and disease,
- state-of-the-art sessions on (i) effective transporter assays and (ii) emerging transporters and transporter sciences,
- the importance of understanding intracellular concentrations of drug and metabolites,
- transporters in translational medicine, and
- Food and Drug Administration-led session on regulatory perspectives on transporter-mediated DDI evaluation during drug development followed by an industry case study discussion forum.

For more information visit www.aaps.org/Transporters13.



AAPS announces the launch of its newest initiative, the AAPS Blog. The vision for the blog is to provide multiple, timely perspectives on the issues affecting pharmaceutical scientists. The blog allows readers to connect with AAPS leaders, staff, and membership, and it increases their knowledge base of the pharmaceutical sciences.

Read some of the most recent blog posts and express your opinion on them by commenting:

- *Gene Therapy Renaissance*, by Hongwei Zhang, Ph.D.
- *So You're Looking for a Job: Three Tips to Set Yourself Apart*, by Sam Gilchrist, Ph.D.
- *Asia Pacific*, by David Y. Mitchell, Ph.D.
- *Project ENCODE: Yesterday's Junk is Tomorrow's (State-of-the) Art!*, by Pramod B. Mahajan, Ph.D.
- *The Job Search*, by Prapti Desai, M.S., M.Sc. AAPS Blog

Connect with AAPS at <http://aapsblog.aaps.org>, and on Facebook, Twitter, LinkedIn, and YouTube.

Upcoming AAPS Meetings

Log onto www.aaps.org/meetings for details

- **March 4-6, 2013**

**48th Annual AAPS Arden Conference:
Pharmaceutical Materials Science and
Engineering—Mechanical Characterization
and Predictive Tools for Rapid Drug
Product Development**

USP Meetings Center, Rockville, MD

- **March 17-20, 2013**

**AAPS Workshop on Drug Transporters in
ADME: From the Bench to the Bedside
Conference**

Bethesda North Marriott Conference Center
Bethesda, MD

- **May 18, 2013**

**AAPS Workshop on Bioanalysis of
Antibody Drug Conjugates**

Sheraton San Diego Hotel and Marina, San Diego, CA

- **May 18-19, 2013**

**AAPS Workshop on Biologic Drugs: Recent
Developments in Formulation, Manufacture
and Characterization**

Sheraton San Diego Hotel and Marina, San Diego, CA

- **May 18-19, 2013**

**AAPS Immunogenicity Training Course II—
Advanced Topics in Evaluation of the
Immunogenicity of Biotherapeutics**

Sheraton San Diego Hotel and Marina, San Diego, CA

- **May 20-22, 2013**

**2013 AAPS National Biotechnology
Conference**

Sheraton San Diego Hotel and Marina, San Diego, CA

- **November 10-14, 2013**

2013 AAPS Annual Meeting and Exposition

Henry B. Gonzalez Convention Center, San Antonio, TX



AAPS Connection

2107 Wilson Blvd., Suite 700, Arlington, VA. 22201-3042 Ph: +1.703.243.2800

January 2013