



Powder and Bulk Engineering's Southeast Conference & Exhibition

April 28-30, 2009
Cobb Galleria Centre
Atlanta, Georgia

Program Overview

Conference Hours

Tuesday, April 28 9:00 a.m. – 4:00 p.m.
Wednesday, April 29 8:00 a.m. – 4:00 p.m.
Thursday, April 30 8:00 a.m. – 11:00 a.m.

Exhibit Hours

Wednesday, April 29 10:00 a.m. – 5:00 p.m.
Thursday, April 30 10:00 a.m. – 3:00 p.m.

Attendee/Conference Registration

Advance registration for conference and exhibition attendance can be made online at www.powderbulk.com following the links to the appropriate information page. Walk-up on site registration will be available at an additional fee on the following dates and times:

Tuesday, April 28	8:00 a.m. – 4:00 p.m.
Wednesday, April 29	7:00 a.m. – 4:00 p.m.
Thursday, April 30	7:00 a.m. – 9:00 a.m.

Registration Restrictions: For trade only. No one under 18 admitted, including infants.



General Information

Badges

Badges are required to be worn during show hours by all persons attending or exhibiting at Powder and Bulk Engineering's 2009 Southeast Conference & Exhibition. Attendees and exhibitors who are preregistered can pick up their badges in the Registration area. On-site registrants must fill out the registration form and obtain a badge from the Registration area in order to be admitted.

Registrations Fees¹ applicable for all non-preregistered attendees:

Exhibits Only	\$ 35
Exhibits One+ Package	\$150
Admission to Powder and Bulk Engineering's 2009 Exhibition plus one conference session on a space-available basis, per person.	
Exhibits Two+ Package	\$250
Admission to Powder and Bulk Engineering's 2009 Exhibition plus two conference sessions on a space-available basis, per person.	
Full Conference Package	\$495
Admission to the entire Powder and Bulk Engineering's 2009 Conference & Exhibition including three or more conference sessions on a space-available basis, per person.	

Group Discount Rate

Discount rates for groups of three or more people from the same company may be available. Contact show management at 651-287-5600 for information.

¹ Once processed all fees are non-refundable. Substitutions of attendees is permissible with approval from PBE show management.



Conference Program

Powder and Bulk Engineering magazine reserves the right to modify session material or schedule or substitute presenters without notice.

Tuesday, April 28

8:00 a.m – Registration with complimentary coffee and juice.

Tuesday, April 28

9:00 a.m – Noon

101: Considerations for Selecting Pneumatic Conveying Systems

Presenter: **Paul Solt** of Pneumatic Conveying Consultants. Email: pccsolt@enter.net
Understanding Vacuum, Pressure and Combination Systems; differentiating between Dilute Phase, Two Phase and Dense Phase; choosing between Vacuum, Pressure, Combination systems; Dilute Phase, Two Phase and Dense Phase; design considerations for conveying line routing; choosing the best feeding devices, special material characteristics, proper air supply; the economics of pneumatic conveying systems.

102: A Mechanistic Approach to Reducing Particle Size

Presenter: **Kerry Johanson** of Material Flow Solutions. Email: matflowsol@bellsouth.net
Discuss relationships between size reduction and key material properties; the role that size reduction equipment geometry and operational parameters play in producing optimal product; review size reduction techniques; discuss strengths and weaknesses relative to particular materials; provide guidance in the selection of size reduction equipment.

Tuesday, April 28

Noon – Complimentary Lunch

Tuesday, April 28

1:00 p.m – 4:00 p.m.

201: Dust Control System Troubleshooting

Presenter: **Gary Q. Johnson** of Workplace Exposure Solutions. Email: gqjohnson2001@yahoo.com
Examine causes of dust problems in processing plants, learn methods of source dust control, the impact efficient dust collection & control has on plant safety, environmental quality and production; explore efficient ventilation and dust capture applications, their role in effective dust collection and control; maintenance tips to assure reliable system performance.

202: Mixing, Blending, and Sampling of Bulk Solids

Presenter: **Eric P. Maynard, Sr.** Consultant, Jenike & Johanson. Email: epmaynard@jenike.com
Methods of analyzing blend uniformity; sample collection, splitting, and analysis; discuss flow patterns within a bin or blender and effects on particle segregation; common segregation mechanisms and solutions; blending mechanisms, types of blenders by application, and sampling techniques.



Conference Program (Continued)

Wednesday, April 29

7:00 a.m – Registration with complimentary coffee and juice.

Wednesday, April 29

8:00 a.m – 11:00 a.m.

301: Getting Ready for an OSHA Combustible Dust Inspection.

Presenter: **Gary Q. Johnson** of Workplace Exposure Solutions. Email: gqjohnson2001@yahoo.com

Review combustible dust hazards; learn the five strategies and associated equipment commonly used to mitigate risks from those hazards; discuss the issues addressed by OSHA Combustible Dust Inspectors and the citations issued so far since the OSHA National Emphasis Program began; review current information about dust fires and explosions in 2008, as well as future legal and regulatory direction in the new Congress.

302: Considerations for Designing/Modifying Pneumatic Conveying Systems

Presenter: **Paul Solt** of Pneumatic Conveying Consultants. Email: pccsolt@enter.net

Examine the relationship between Line Length, Line Diameter, Capacity, Pressure/Vacuum and Air Volume (velocity); define and calculate Saltation Velocity, pressure drop around a bend, and in vertical conveying; simplified estimation for designing dilute phase systems, two-phase systems, and dense phase systems; stepped lines; review cohesive materials, controlling pressure tank conveying, listening to a conveying system to analyze conveying phase.

Wednesday, April 29

Noon – Complimentary Lunch

Wednesday, April 29

1:00 p.m – 4:00 p.m.

401: Fundamentals of Powder Flow Technology

Presenter: **Eric P. Maynard, Sr.** Consultant, Jenike & Johanson. Email: epmaynard@jenike.com

Typical bulk solids flow problems in silos, bins and hoppers. Learn results of common flow problems; how the right flow pattern eliminates those problems; how to characterize bulk solids flow properties, design hoppers to prevent flow problems; select the angle and materials of construction.

402: Combustible Dust Hazards and OSHA NEP

Presenter: **Erdem Ural** of Loss Prevention Science & Technologies. Email: erdem.ural@lpsti.com

Review combustible dust hazards. Learn how dust explosions initiate, propagate and wreak havoc. Discuss how OSHA Combustible Dust National Emphasis Program (NEP) provisions, consensus standards such as NFPA 654, NFPA 69, NFPA 68 and relevant test methods can be used to identify hazardous situations and eliminate/mitigate the consequences.

Thursday, April 30

7:00 a.m – Registration with complimentary coffee and juice

Thursday, April 30

8:00 a.m – 11:00 a.m.

501: How to Select or Troubleshoot Feeders

Presenter: **Eric P. Maynard, Sr.** Consultant, Jenike & Johanson. Email: epmaynard@jenike.com

Discuss advantages and disadvantages of various types of bin flow patterns; differences between feeders and conveyors; design techniques for screw feeders under elongated outlets; single vs. multiple screws and U-trough vs. Vee-trough comparisons; design techniques for belt feeder applications; comparison of screw, belt & rotary valve feeders and more.

502: Preventing Attrition in Process Equipment

Presenter: **Kerry Johanson** of Material Flow Solutions. Email: matflowsol@bellsouth.net

Understand how susceptible particular particles contribute to various types of breakage; what potential breakage events can be induced in a particular process; discuss the interaction of process behavior, particle breakage mechanisms, and operation parameters; provide guidance to reducing unwanted particle breakage in handling processes.