

PBE's Midwest Powder Show™ & Conference preview

The Powder Show™ returns to the Midwest

Show Info

What:

PBE's Powder 17: Midwest Powder Show™ & Conference

Where:

Greater Columbus Convention Center
Columbus, OH

When:

September 27-29

Exhibition hours:

Thursday, September 28,
10:00 a.m. to 5:00 p.m.

Friday, September 29,
10:00 a.m. to 3:00 p.m.

Conference hours:

Free Seminars:

Thursday, September 28,
8:00 to 8:45 a.m.

Friday, September 29,
8:00 to 8:45 a.m.

Conferences:

Wednesday, September 27,
8:00 a.m. to 4:00 p.m.

Thursday, September 28,
9:00 a.m. to 4:00 p.m.

Friday, September 29,
9:00 a.m. to noon

Show Website:

www.pbepowdershow.com

Spend time face-to-face with powder handling equipment suppliers and professionals

*P*owder and Bulk Engineering's Powder 17: The Midwest Powder Show™ & Conference, an industry event for powder processing professionals, will be returning September 27-29 to the Greater Columbus Convention Center in Columbus, OH. This show will provide industry professionals interested in powder handling, processing, storage, and transport with educational conferences and an exhibition geared specifically to their powder processing needs.

Exhibition

The last *PBE* Powder Show held at this venue attracted more than 1,000 attendees and featured exhibitors specializing in solving powder and bulk solid handling problems. This year's event will host a wide range of exhibitors with equipment and services for mechanical and pneumatic conveying, mixing and blending, packaging, dust collection, and other bulk solids handling applications. Registration for the exhibition is free until September 20 and \$35 after that date. For a current exhibitor list, see page 50.

Conferences

During the show, conference sessions on various bulk-solids-related topics will be held in rooms conveniently located next to the exhibit hall. The conferences will span 3 days and for the first time will include two free seminars along with the 15 regularly scheduled seminars. Each conference session can provide professional development hours (PDHs), which can contribute to Continuing Education Units (CEUs). In total, attendees can earn up to 17 PDHs over the 3 days of the conference. The sessions are taught by industry experts from across the US and will cover bulk solids handling, material flow, pneumatic conveying, dust collection, and other related topics. Attendees have various session purchasing options, from attending a single half-day session to attending all 5 half-day sessions (2½ conference days). These conferences are a valuable opportunity to learn more about your processes, get your difficult questions answered by well-versed experts, attain educational PDHs (CEUs) for your engineering license, and network with peers in your industry.

The free seminars will be held from 8:00 to 8:45 a.m. on Thursday, September 28, and Friday, September 29. Each seminar requires a simple registration and is

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a basic introduction for attendees who need a refresher or would like to learn more about the dust collection or pneumatic conveying equipment at their plant.

Continental breakfasts and lunches, along with free entrance to the exhibit hall, will be provided for all registered conference attendees. All attendees are also invited to the show's welcome reception on Thursday, September 28, at 5:00 p.m., a networking opportunity with complimentary drinks and appetizers.

Venue and accommodations

Held at the Greater Columbus Convention Center in bustling downtown Columbus, the 2017 Midwest Powder Show & Conference will offer attendees not only an exhibition and conferences. The convention center provides convenient dining options in addition to the free continental breakfast and lunch for registered conference attendees, and both casual and fine dining options are available in the surrounding neighborhood for attendees to continue business discussions or network with other professionals.

Attendees can also make reservations at the official hotel for this year's show, the Hyatt Regency Columbus, which is connected directly to the convention center by an enclosed skyway. The hotel is now accepting discounted room reservations for Powder Show attendees.

For more information on show registration, conferences, and hotel booking, visit www.pbepowder.com or contact Shannon Flaherty, 651-253-7485 (sflaherty@cscpub.com). See you at the show!

Conference Program

Wednesday, September 27

100 – Introduction to Pneumatic Conveying Systems

**Session 100,
8:00 a.m. to 11:00 a.m.**

Jack Hilbert will present a basic introduction to pneumatic conveying systems, including the various pneumatic conveying system types and the operation principles of each. Presentation includes demonstrations using a tabletop pneumatic conveying model created by the presenter to effectively show attendees various pneumatic conveying system operational modes.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcchilbert@gmail.com)

101 – Pneumatic Conveying System Design Considerations

**Session 101,
1:00 p.m. to 4:00 p.m.**

Jack Hilbert will cover pneumatic conveying system design considerations. He'll discuss the various factors that influence system design, including material characteristics, upstream and downstream process conditions, conveying line geometry, and future expansion concerns.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcchilbert@gmail.com)

102 – Fundamentals in Powder and Bulk Solids Handling

**Session 102,
8:00 a.m. to 11:00 a.m.**

Eric Maynard's introductory workshop is geared to assist those new to the powder and bulk solids handling field and covers basic powder storage, handling, and material characterization. Session includes the knowledge needed to understand why powder or material flow problems occur. Session also presents cost-effective solutions to powder handling problems and provides an overview of the proven science of bulk material handling.

Presenter: Eric Maynard, Jenike & Johanson (epmaynard@jenike.com)

103 – Methods for Implementing an Effective Bin Feeder Design

**Session 103,
1:00 p.m. to 4:00 p.m.**

The afternoon workshop covers a step-by-step selection process of powder and bulk solids storage and feeding equipment. Presentation reviews vital flow properties to help attendees understand the application of material flow data to equipment design, and critical feeder tips will be provided with a focus on screws, belts, and rotary valves.

Presenter: Eric Maynard, Jenike & Johanson (epmaynard@jenike.com)

104 – Essentials for Practical Dust Collection System Design Level 1

**Session 104,
8:00 a.m. to 11:00 a.m.**

Jack Osborn's session covers the introductory information necessary for successful design and operation of a typical dust collection system. Workshop covers essential system components and will review general design

requirements using “balance-by-design” methodology.

Presenter: Jack Osborn, Airdusco (josborn@airdusco.com)

105 – Essentials for Practical Dust Collection System Design Level 2

**Session 105,
1:00 p.m. to 4:00 p.m.**

Jack Osborn will cover best practices, operation and maintenance topics, and specific hood design requirements for dust collectors. Attendees will work through real solutions to dust collection problems and have the opportunity to submit details of their dust collection issues to the instructor prior to the session to develop interactive design solutions.

Presenter: Jack Osborn, Airdusco (josborn@airdusco.com)

Thursday, September 28

2A – What the #&!#@ is a Dust Collection System – Basic Overview – FREE

**Session 2A,
8:00 a.m. to 8:45 a.m.**

Have you ever wondered what a dust collection system actually is? Even if you don't care, but have one of these systems in your plant, it would be good to have at least a basic understanding of the system's major components, purpose, and limitations.

Presenter: Jack Osborn, Airdusco (josborn@airdusco.com)

200 – Pneumatic Conveying System Components

**Session 200,
9:00 a.m. to noon**

Jack Hilbert will discuss the major pneumatic conveying system components along with their applications, operating parameters, and available options.

He'll also provide recommended sizing and selection guidelines for pneumatic conveying systems.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcchilbert@gmail.com)

201 – Designing a Pneumatic Conveying System

**Session 201,
1:00 p.m. to 4:00 p.m.**

Jack Hilbert will present pneumatic conveying system design theory and formulae to allow the participants to make basic system designs and specify various system components. Several system sizing examples will be demonstrated, and attendees will participate in designing a basic pneumatic conveying system.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcchilbert@gmail.com)

202 – Achieve Powder Blend Uniformity and Avoid Costly Segregation

**Session 202,
9:00 a.m. to noon**

Eric Maynard focuses on advanced powder blending and segregation issues that will help attendees to achieve and maintain blend uniformity, which is vital in many industries such as pharmaceuticals, foods, and specialty chemicals. He'll review common blenders and mixers, give the pros and cons for each technology, and advise how to prevent powder segregation after proper material blending.

Presenter: Eric Maynard, Jenike & Johanson (epmaynard@jenike.com)

203 – Preventing Caking in Bulk Handling Processes

**Session 203,
1:00 p.m. to 4:00 p.m.**

Kerry Johanson explains the many causes of material caking or clumping responsible for lost production hours and unscheduled downtime in bulk solids processes, particularly those with powders. He'll suggest methods to identify the caking phenomena through measuring key material flow properties. The remainder of the workshop will be dedicated to solving caking problems in process facilities, including presenting and ranking flow aid devices and over-viewing the use of flow aid materials.

Presenter: Kerry Johanson, Material Flow Solutions (kjohanson@matflowsol.com)

204 – How the new NFPA 652 (Standard on the Fundamentals of Combustible Dusts) Affects All Industries Handling Combustible Dust Level 1

**Session 204,
9:00 a.m. to noon**

Jack Osborn will explain the various effects the new NFPA 652: Standard on the Fundamentals of Combustible Dust has on the other industry- and commodity-specific standards. The 652 standard has required significant changes in all the other standards and inherently affects all industries that have combustible dusts.

Presenter: Jack Osborn, Airdusco (josborn@airdusco.com)

205 – How the new NFPA 652 (Standard on the Fundamentals of Combustible Dusts) Affects All Industries Handling Combustible Dust Level 2

**Session 205,
1:00 p.m. to 4:00 p.m.**

Jack Osborn will overview the new *NFPA 652: Standard on the Fundamentals of Combustible Dust*, which is now in effect and is causing significant changes in other industry- and commodity-specific standards. Since OSHA's National Emphasis Program makes the NFPA the prime source of compliance rules, any industry that handles combustible dust needs to know what's required for compliance.

Presenter: Jack Osborn, Airdusco (josborn@airdusco.com)

Friday, September 29

3A – The Basic ABCs of Pneumatic Conveying – FREE

**Session 3A,
8:00 a.m. to 8:45 a.m.**

This seminar is for the engineers or operators who find themselves involved in the selection, operation, or optimization of pneumatic conveying systems and need fundamental information and guidance. The presentation will feature a tabletop pneumatic conveying model and will provide a basis for individuals in the field to expand their pneumatic conveying knowledge.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcc hilbert@gmail.com)

300 – Pneumatic Conveying System Optimizing and Troubleshooting

**Session 300,
9:00 a.m. to noon**

Jack Hilbert will describe how to optimize and troubleshoot pneumatic conveying systems and related components to improve the operation of existing systems. He'll review specific checklists and guidelines and will use a tabletop pneumatic conveying model to supplement the training.

Presenter: Jack Hilbert, Pneumatic Conveying Consultants (pcc hilbert@gmail.com)

301 – Solve Powder Caking Problems and Prevent Particle Attrition

**Session 301,
9:00 a.m. to noon**

Eric Maynard will overview techniques to avoid powder caking and particle attrition with bulk materials, subjects not generally covered in academia but that cause costly problems in industrial applications. The workshop will cover reasons for powder caking along with proven methods to reduce unwanted agglomeration. He'll also cover the underlying causes of powder fines generation (attrition), as well as solutions to avoid particle damage.

Presenter: Eric Maynard, Jenike & Johanson (epmaynard@jenike.com)

302 – Optimizing Product Quality through Particle Size Reduction

**Session 302,
9:00 a.m. to noon**

Kerry Johanson's workshop will examine the relationship between particle scale properties, bulk properties, mill operation, and mill geometry on particle size reduction using scientific principles. He'll discuss traditional particle size energy relationships, providing session attendees with an understanding of the mechanistic size reduction obtained by population balance models. He'll also examine the relationship between the type of particle breakage and proper mill selection and review several mill types and rank how they operate with materials that have specific properties.

Presenter: Kerry Johanson, Material Flow Solutions (kjohanson@matflowsol.com)

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Powder Show™ Exhibitors

The following suppliers will display their powder and bulk handling, processing, and storage equipment and services at *PBE's* Midwest Powder Show™ & Conference. This list of suppliers and booth numbers was current as of June 1, 2017. Suppliers advertising in this issue are listed in **bold**.

A

ABC Polymer Industries104

Ag Growth International202

B

B&P Littleford212

Beckman Coulter312

Bepex International408

BinMaster**407**

Blue Level Technologies311

Bulk Solids Innovation Center (Kansas State University)803

C

Camfil APC**200**

Cleveland Vibrator Co.**402**

CST Storage204

Clyde Bergemann Power Group511

CV Technology**310**

D

Donaldson Company**602**

E

Economy Ball Mill307

F

Filtrartech704

Flexicon**400**

H

Herding Filtration205

I

IEP Technologies**404**

Imperial Industries100

J

Jenike & Johanson**303**

K

Komline-Sanderson708

K.R. Komarek607

Kuriyama of America809

M

Manardi Filters508

Magnetic Products Inc. (MPI) **203**

Microtrac608

N

Nordfab Ducting605

P

Powder and Bulk Engineering Magazine**610**

Prater Industries409

Procedyne505

Progressive Products**502**

Pulva603

S

Schenck Process308

Schust Standard Products305

T

Tank Connection**504**

V

Vortex**805**

Vorti-Siv102

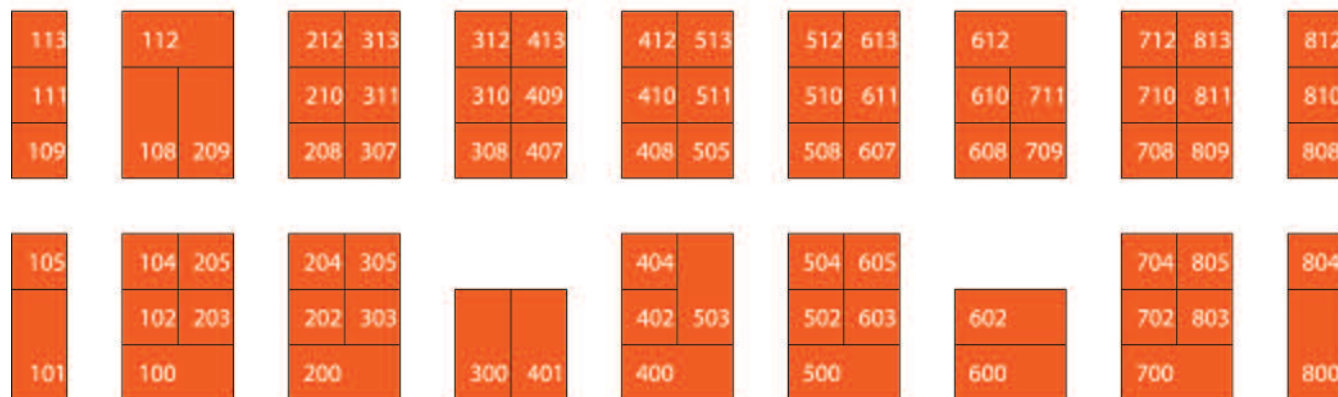
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EXHIBITION FLOOR PLAN

CONCESSION AREA



ENTRANCE