PNEUMATIC CONVEYANCE SYSTEMS ENERGY MANAGEMENT

September 13, 2017
7:30 am until 4:30 pm
Hilton Garden Inn
2465 Grant Road
Billings, MT 59102

Registration Fee: $139

Class size is limited to 25 attendees

Key Learning Objectives
- Discuss design examples
- Understand segregation mechanisms and solutions to segregation problems
- Learn about the material flow process
- Evaluate options available for pneumatic conveying systems
- Conduct troubleshooting methods

Who Should Attend
- Food processing, bulk storage, and pulp and paper
- Biotechnical, biochemical, chemical, and fermentation
- Pharmaceuticals and cosmetics
- Mining/mineral and plastics processing
- Consultants and utility staff

Course Description: This training will provide attendees the skills and knowledge necessary to optimize existing pneumatic conveying systems or specify reliable systems to meet conveying requirements. Systems design, operation, component selection, advantages and disadvantages, and other characteristics of different conveying systems will be discussed.

Instructor: Jack Hilbert is a principal consultant at Pneumatic Conveying Consultants, in Schnecksville, Pennsylvania. His diverse experience derives from more than 40 years of experience installing and troubleshooting pneumatic conveying systems. He is well-known for his column, “Pneumatic Points to Ponder,” which has been appearing in Powder and Bulk Engineering magazine three times a year for the past 20 years. He has a Bachelor and Master’s Degree in mechanical engineering from Pennsylvania State University. Jack is also a registered professional engineer in New York, New Jersey and Pennsylvania.

Agenda

7:30 Registration (breakfast provided)
8:00 Morning Session
- Economics: pneumatic conveying vs. other methods
- Material properties and the effect on conveying
- Types of systems: vacuum vs. pressure and dilute vs. dense
- Approximation method of sizing a dilute phase pneumatic conveying system.
11:30 Lunch (provided)
12:30 Afternoon Session
- Phase diagrams: energy required vs. phase diagram
- Designing for minimum energy usage
- Air supplies: fans, blowers, compressors and their effect on energy
- Material separation: cyclones and filters
2:00 Break
2:15 Afternoon Session Continued
- Feeding devices and their energy requirements: venturi, rotary feeder, gate lock, screw feeder, and pressure pots
- Conveying line orientation and effect on energy: diverter valves, couplings, and bends
4:15 Summary and Evaluation
4:30 Adjourn
Hosting Sponsor

Co-Sponsoring Organizations

This training is provided by Jack Hilbert. For more information: pcchilbert@gmail.com (610) 657-5286.

The Northwest Regional Industrial Training project is coordinated and funded by the Northwest Energy Efficiency Alliance (NEEA), a private non-profit organization funded by Northwest utilities, Energy Trust of Oregon and Bonneville Power Administration. NEEA and its stakeholders subsidize up to 85% of the cost to attendees, which means the cost listed on the front of this brochure is significantly less than the average price in the marketplace. NEEA works in collaboration with its stakeholders and strategic market partners to accelerate the sustained market adoption of energy-efficient products, technologies, and practices. NEEA’s market transformation efforts address energy efficiency in homes, businesses, and industry.

How to Register

Registration deadline is August 30, 2017

Register online: https://www.regonline.com/186neea-industrialtraining

Or fax, email, or mail the below registration form to:

Phone: 888-720-6823
Fax: 503-525-4800
Email: industrial-training@industrial.neea.org

NEEA Industrial Training c/o Ecova
100 SW Market St, Suite 200
Portland, OR 97201

Please make checks payable to NEEA Industrial Training c/o Ecova#2300

Questions

Visit http://neea.org/get-involved/calendar or contact the training center at 888.720.6823 or industrial-training@industrial.neea.org

Registration Form – Please register me for the Pneumatic Conveyance Systems training on September 13:

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Participation approved by:

Supervisor name

E-mail Address

Payment Options

Please enclose a check with this registration form and mail to the above address.

Discount Code: __________  Purchase Order: __________

Cancellation Policy: Full refund of registration fee if attendance is cancelled by August 30; half refund thereafter.