

Storage and Flow of Bulk Solids Course Schedule

Tuesday

8:00 am	Check-in
8:30 am	Welcome
8:45 am	Bulk Solids Innovation Center Tour
9:15 am	Common Flow Problems and their Results
10:15 am	Break
10:30 am	Flow Properties Measurement and Hopper Design Principles
11:45 am	Lunch served in east room
12:30 pm	Flow Property Testing - Group Exercise
1:30 pm	Procedure for Designing a Hopper/Bin
3:00 pm	Break
3:15 pm	Design of Chutes
4:00 pm	Venting of Hoppers/Air Filtration/Dust Control
5:00 pm	Industry Tour and Dinner <i>Optional - see following pages for details</i>

Hosted by Coperion K-Tron - tour may not be given due to Covid restrictions.

Wednesday

8:30 am	Feeder Selection and Design
9:15 am	Aeration and Flow Aids
10:00 am	Break
10:15 am	Flow Aids continued
10:45 am	Particle Segregation and Solutions
12:00 pm	Lunch served in east room
12:45 pm	Caking, Agglomeration, and Moisture Effects
1:45 pm	Magnets, Metal Detectors and Separators
2:30 pm	Break
2:45 pm	Flow of Bulk Solids in Different Size Hoppers - Group Exercise
3:15 pm	Screw Conveyors
4:15 pm	Valves used in Bulk Solids Handling
5:00 pm	Industry Tour and Dinner <i>Optional - see following pages for details</i>

Hosted by Vortex Valves

Thursday

8:30 am	Dust Explosion Protection
9:30 am	Structural Design Considerations for Silo and Bins
10:15 am	Break
10:30 am	Silos - Sizing and Specifications
11:15 am	Level Measurement and Weighing in Bins and Silos
12:15 pm	Lunch served in east room
1:15 pm	Material Sampling and Particle Characterization Tests
2:00 pm	Instrumentation and Control in Bulk Solids Handling
3:00 pm	Break
3:15 pm	Overview of Discrete Element Method (DEM) Modeling of Solids Flow
4:00 pm	Closing and Evaluation