



Powder and Bulk Engineering

July 2017

Volume 31 Number 7

www.powderbulk.com

On the cover: Pan idler conveyor is shown at a seed corn conditioning facility in Remington, IN. Conveyor features a cross belt tripper system that allows seed corn to fill multiple bins of various hybrids. Conveyor is 42 inches wide and 430 feet long and receives wet ear corn from a husk-and-sort building, transitioning from horizontal through a radius upturn to elevate through a radius nose-over to feed a dryer. Courtesy of Chantland MHS, Humboldt, IA, 515-332-4045 (www.chantland.com).

INDUSTRY PERSPECTIVE

8 Bulk solids education helps avoid economic losses

John Lawrence

MECHANICAL CONVEYING



27 Using aeromechanical conveyors for difficult-to-handle materials

Nick Webber

32 Product summary

64 Suppliers' tips

Suppliers discuss often-overlooked considerations when choosing a mechanical conveyor.

GENERAL FEATURES



20 Pneumatic points to ponder...

Columnist Jack D. Hilbert explains the importance of "listening" to a material when designing and specifying a pneumatic conveying system.

37 The challenges of powder characterization

Jamie Clayton

44 Engineering solution: Screening out tough agglomerates

46 PBE's Midwest Powder Show™ & Conference preview

Here's everything you need to know to attend the September show.

51 Nanotechnology

53 Trade show preview: Powtech 2017

DEPARTMENTS



9 PBE update

10 Industry news

16 Markets update

18 Research notes

25 Special section:

Filter media

52 Special section:

Vacuum cleaning equipment

55 Calendar

55 Continuing education

57 Call for papers

57 What's new

58 Supplier notes

58 People news

59 Product news

62 Classified advertising

63 Advertiser index

Powder and Bulk Engineering (ISSN 0897-6627) is published monthly, twelve times a year by CSC Publishing Inc., 1155 Northland Drive, Saint Paul, MN 55120. Periodical postage paid at Saint Paul, MN and additional mailing offices. POSTMASTER: Send address changes to: Powder and Bulk Engineering, 1155 Northland Drive, Saint Paul, MN 55120.