

**Amgen Seminar Series in Chemical Engineering**  
in  
Cherry Auditorium, Kirk Hall, 1 PM

**Presents on November 17, 2011**

**Bulk Solids Handling Fundamentals**

By

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Identifying the lines or equipment that handle solids in a chemical plant is easy: they're the ones with all the hammer marks. Although chemical engineers possess the education and experience to design or recommend systems for handling liquids and gases, their training on the principles that describe the flow of bulk solids is sometimes lacking in comparison.

This seminar will discuss how the fundamental properties of bulk solids, including cohesive strength, wall friction, permeability, and compressibility, can be used to predict if and how bulk materials will flow and how to design systems for reliable flow.

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