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## Controlling Agglomeration Tutorial - Seminar

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### What you will learn:

Agglomeration can occur in almost every unit operation or transfer step. In many unit operations agglomeration is unwanted, and the primary goal is to reduce or limit particle growth. Unchecked, particle growth can lead to process plugging caused by lump formation. Sometimes unit operations are specifically designed to achieve agglomeration. However, often the goal of these agglomeration processes is to create a product with a controlled particle size distribution without excessive recycle. In any case, the control of agglomeration is important to the creation of many products. We will approach agglomeration from a mechanistic point of view and teach course attendees the relationship between process behavior, key bulk material properties, binder properties, particle scale properties, and agglomeration tendencies. With this basis, we can then provide guidance to limit agglomeration in handling facilities or enhance and control particle size growth in agglomerators. The discussion will be based on sound scientific principles with practical applications to aid the practicing engineer.