

**IFPRI Workshop**  
**PARTICLE TECHNOLOGY EDUCATION IN THE 21ST CENTURY**

Most practicing engineers in the chemical, biopharmaceutical, materials, energy, and consumer products industries will confront particle processing sometime during their careers, and many of us spend our careers designing, making, and manipulating particles. We typically have been required to learn particle technology on the job – because education in particle technology is largely missing from undergraduate and graduate engineering curricula. Often, most engineering departments provide no courses in particle technology or, at best offer a single survey course.

We believe that the scientific advances made in the discipline over the last twenty years provide an opportunity to develop a modern particle technology curriculum and re-energize particle technology education. To achieve this, we need to develop a modern framework that defines the discipline and provides the structure for the development of new courses, textbooks, and educational programs that are attractive to prospective students and prepare them well for industrial practice.

This workshop is intended to assemble this framework. The workshop brings together academic and industry experts in Particle Technology from Europe, North America, and the Asia-Pacific to consider four major questions:

- What is the current state of particle technology education?
- What does industry need from particle technology education?
- What is the framework for a modern particle technology education?
- How should particle technology education be implemented?