



IFPRI BRIEF TEMPLATE

Check One: **Project** **Review** **Collaboration**
 Workshop **Other**

Descriptive Title	IFPRI Design/Particle Technology Problem
Working Title¹	IFPRI Design/Particle Technology Problem
Technical Area²	Education and Advocacy
Date	June 25, 2019
Short Description	An IFPRI sponsored design/challenge problem would be available to university students. Students would submit solutions and vie for a cash prize and annual meeting attendance.
Objectives	The intent of this project is to advertise both particle technology and IFPRI to all academic institutions.
Scope	A subset of IFPRI members/contractors would create either a challenge problem or a design problem, which would be sent to all chemical and mechanical engineering departments approximately 6-8 months ahead of annual meeting. Teams of 3 or less would work on the problem for a given time and either submit a video or a design package to be judged by a small group of IFPRI people. The winning team would be invited to attend the annual meeting and present their solution. Prizes would be \$1000/\$500/\$300 for first, second and third place respectively. The problem would shift in geographic focus depending on siting of the annual meeting. The exact format of the problem has not yet been determined. Possibilities could include a problem similar to the "AIChE Contest Problem" (although with a significantly more limited design scope) or a video demonstrating some aspect of particle technology/solids processing.

Recommended Contractors (2 or 3)		
Name	Institution	Email Address
N/A		

Submitted By:	
Name	Organization
Olivia George	Keurig Dr. Pepper

¹ Title used in meeting agendas and file archives

² One or more from the following list: W = wet systems; D = dry systems; F = particle formation; SR = size reduction; M = modeling; SE = systems engineering

Karl Jacob	University of Michigan
Tim Bell	DuPont
Massih Pasha	Chemours
Jim Michaels	VP
Willie Hendrickson	President
Toby Frueh	Almatis
Jarrold Hart	Imerys
Marty Murtagh	Corning