IFPRI BRIEF TEMPLATE

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

Descriptive Title	Expansion of the Simplified Industrial Formulations beyond thixotropy or tribology
Working Title[1]	SIFs Collaboration
Technical Area[2]	Wet Systems
Date	25 June 2019
Short Description	There are three proposals currently submitted against the SIFs brief (Bottom up approach to define reduced-complexity systems that represent the behaviour of real [simplified] colloidal formulations). These are excellent proposals but take two different approaches to examination of the flow behaviour~~,~~: focus on the yield stress, aging and thixotropic behaviour, and focus on the of particle-particle contacts at either high loading or high-shear and the friction between the particles. We anticipate both areas to be of interest to the IFPRI membership and propose to fund a collaboration between one of the unsuccessful PIs and the successful PI to cover more of the rheological space. Given the SIFs are the same, it should be relatively simple to get leverage from the funding.
Objectives	• To keep IFPRI engagement with the unsuccessful PI who wrote a high quality proposal • To make a connection between PIs at the outset of the project
Scope	Progress the additional area of either tribology or thixotropy for the SIFs.

Recommended Contractors (2 or 3)		
Name	**Institution**	**Email Address**
Hsiao	NC State	
Vermant	ETH	
Petedekis	FORTH	

Submitted By:	
Name	**Organization**
John Hone	Syngenta
Rajeev Gorowara	Corteva

[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

Chris Rueb	Aveka
Marty Murtagh	Corning