



## IFPRI BRIEF TEMPLATE

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

<b>Descriptive Title</b>	Coupled effect of tribo-electrification and milling
<b>Working Title<sup>1</sup></b>	Coupled effect of tribo-electrification and milling
<b>Technical Area<sup>2</sup></b>	SR
<b>Date</b>	25 June 2019
<b>Short Description</b>	Milling operations are affected by tribo-charging. In extreme conditions mills could be completely blocked by particle deposition due to electric charge build up.
<b>Objectives</b>	Evaluation of tribo-charging and its influence on milling performance. Evaluate whether milling causes enhanced charge buildup, i.e. whether the formation of new surfaces brings about increased charge transfer.
<b>Scope</b>	Charging and milling are quantified simultaneously. Devise a rig where the charge transfer and breakage take place simultaneously, e.g. a simple breakage rig or a hammer mill inside a Faraday cage

<b>Recommended Contractors (2 or 3)</b>		
Name	Institution	Email Address
Poupak Mehrani	University of Ottawa	Poupak.Mehrani@uottawa.ca
Matti Murtomaa	University of Turku	matti.murtomaa@utu.fi
Geoffroy Lumay	University of Liege	Geoffroy.Lumay@uliege.com

<b>Submitted By:</b>	
Name	Organization
Kyle Sala	Keurig Dr Pepper
Jason Lang	Ecolab
Scott Limestoll	Lincoln Electric
Gary Liu	Du Pont
Jarrod Hart	Imerys
Chuck Compson	Almatis
Mark Snyder	Almatis
Rohit Kumar	Alkermes

<sup>1</sup> Title used in meeting agendas and file archives

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

Brian Levy Polis Lisa Taylor Pieter Vonk Filip Francqui	FMC Pfizer DSM GranuTool