



**IFPRI**

International Fine Particle  
Research Institute

# **45<sup>th</sup> Annual General Meeting Agenda**

**June 11-15, 2023**

**Holiday Inn City Centre**

**Lafayette, IN USA**

**Zoltan Nagy Host**

**Purdue University**

**Paul Mort Host**

**Purdue University**



# Technical Program Agenda<sup>1</sup>

Sunday, June 11

Registration & tea/coffee available outside Grand Ballroom

All Meeting Attendees and Accompanying Persons

from 8:00

AGM Welcome and IFPRI Reviews

Grand Ballroom

All Meeting Attendees

Judith Bonsall, Chair

9:00	Welcome and Introduction of Guests	Willie Hendrickson (IFPRI)
9:10	Opening Comments	Judith Bonsall (Unilever – Uk))
9:20	Welcome to Purdue University	Zoltan Nagy (Purdue University - USA)
10:00	Coffee	
10:30	Particle Shape Characterization	Basavaraja Gurappa (Indian Institute of Technology - India)
11:10	Pore Size and Saturation Characterization	Matthias Thommes (Friedrich-Alexander University - Germany)

Lunch

Hotel Restaurant

11:50 – 13:30

Project Reviews

Grand Ballroom

All Meeting Attendees

Judith Bonsall, Chair

13:30	Model Based Control of Crystallization	Zoltan Nagy (Purdue University - USA)
13:40	Crystal Shape Prediction	Mike Doherty (University of California Santa Barbara - USA)
13:50	Drying Kinetics and Morphology	Maciej Jaskulski (Lodz University – Poland)
14:00	Characterization of Spray Nozzles at Industrial Conditions	Nasser Ashgriz (University of Toronto - Canada)
14:10	Spray Drying of Pastes	Volker Gaukel (Karlsruhe Institute of Technology - Germany)
14:20	Numerical Modeling of Spray Droplet Formation	Olivier Desjardins (Cornell University - USA)
14:30	Coffee	

<sup>1</sup> All times are *Eastern Daylight Time*. All sessions except the General Poster Session on Wednesday and the Technical and Business Meetings on Thursday can be attended remotely via Zoom at the link provided by Willie. Sessions highlighted in grey are open to all meeting attendees. Sessions highlighted in red are restricted to IFPRI members, prospective members, and consultants – academics should not attend.

14:45	Drying Wet Powders with Shear	Alban Sauret (University of California Santa Barbara - UK)
14:55	Selection of Flow Aids	Raj Dave (New Jersey Institute of Technology - USA)
15:05	A Systems Engineering Approach to Dry-Milling with Grinding Aids	Arno Kwade (Technical University of Braunschweig – Germany)
15:15	Dem Round Robin	Kit Windows Yule and Jonathan Seville (University of Birmingham - UK)
15:25	Poster Organization	Judith Bonsall (Unilever – UK)
15:40	Poster Session Part I	
16:55	Coffee	
17:10	Poster Session Part II	
18:25	Adjourn for Day	

# Monday, June 12

<b>Project Reviews (Continued)</b>	<b>Grand Ballroom</b>
All Meeting Attendees	Judith Bonsall, Chair

8:00	Session Introduction	Judith Bonsall (Unilever)
8:15	Model-Based Design of Granular Products	Rachel Smith (University of Sheffield - UK)
	Collaboration Project	Daniel Markl (University of Strathclyde – UK)
8:30	Slurry and Paste Rheology	Erin Koos (KU Leuven - Belgium)
8:40	Simplified Industrial Formulations	Jan Vermant (ETH Zurich – Switzerland)
	Collaboration Project	Roseanna Zia (Stanford University – USA)
8:55	Powder Adhesion to Metal Surfaces During Compaction	Casba Sinka (University of Leicester)
9:05	Air-Induced Defect Formation During Compaction	Ken Kamrin (Massachusetts Institute of Technology – USA)
9:15	Coffee	
9:30	Aeration and Deaeration of Geldart Class C Powders	Olivier Pouliquen (Aix-Marseille - France)
9:40	Precision Powder Feeding	Prahbu Nott (Indian Institute of Science - India)
	Collaboration Project	Karen Daniels (North Carolina States University - USA)
9:55	Poster Session Part III	
11:10	Coffee	
11:25	Poster Session Part IV	

<b>Lunch</b>	<b>Pittman Room</b>
	12:40 – 13:40

<b>Project Reviews (Continued)</b>	<b>Grand Ballroom</b>
All Meeting Attendees	Judith Bonsall, Chair

13:40	Feedback from Academics	Research Associates
15:25	Coffee	

<b>Members Discussion of Technical Program</b>	<b>Grand Ballroom</b>
Members, Prospective Members, Consultants	Judith Bonsall, Chair

15:40	Discussion of Current Projects and Quality Review of New Proposals	Members, Consultants
18:10	Adjourn for day	

## Tuesday, June 13

**Plenary and Prospective Member Talks** **Grand Ballroom**  
 All Meeting Attendees Judith Bonsall, Chair

8:15	Session Introduction	Judith Bonsall (Unilever)
8:20	Predicting and Preventing Segregation for Small, Dense, Irregular and Fine Particle	Rich Lueptow (Northwestern University)
9:00	Modeling Agricultural Grain Damage	Carl Wassgren (Purdue University)
9:40	Prospective Member Talks	Willie Hendrickson (IFPRI)
10:35	Coffee	

**Consultants' Comments** **Grand Ballroom**  
 All Meeting Attendees Judith Bonsall, Chair

11:05	Powder Flow	Michel Louge (Cornell University - USA)
11:13	Wet Systems	Eric Furst (University of Delaware- USA)
11:21	Systems Engineering	Satoru Watano (Osaka Prefecture University - Japan)
11:29	Particle Formation	Karen Hapgood (Deakin University - Australia)
11:37	Size Reduction	Wolfgang Peukert (Friedrich-Alexander-Universität Erlangen-Nürnberg - Germany)
11:45	Characterization	Wilson Poon (University of Edinburgh - UK)
11:53	Education	Paul Mort (Purdue University - USA)

**Lunch** **Pittman Room**  
**12:00 – 13:00**

**Technical Program Planning Session** **Grand Ballroom**  
 New Brief Generation  
 All Meeting Attendees Judith Bonsall, Chair

13:00	Session Introduction: New Brief Generation	Jim Michaels (IFPRI) and Judith Bonsall (Unilever)
13:10	Breakout into Small Group Discussions	All
15:00	Coffee	
15:15	Idea Feedback	All
16:30	Idea Refinement	All
18:00	Adjourn for the Day	

## Tuesday Evening Program: Tutorials

All Meeting Attendees

18:30 – 19:30

Topic	Presenter(s)	Location
ADDICT v4.0 Crystal Morphology Prediction Using Monte Carlo Simulation Approaches	Toby Mazal, Neha Padwal, and Mike Doherty (UC Santa Barbara)	Pittman Room
CrySiV: User-Friendly Tool for the Digital Design of Crystallization Systems	Botond Szilagyi and Zoltan Nagy (Purdue)	Shambaugh Room
Autonomous Calibration and Characterization Using Evolutionary Simulation (ACCES) Making Accurate Particle Simulations Accessible to All	Kit Windows-Yule (U. Birmingham)	Grand Ballroom

## Wednesday June 13

<b>Technical Program Planning Session</b>	<b>Grand Ballroom</b>
Review and Discussion of New Briefs	
All Meeting Attendees	Judith Bonsall, Chair

8:30	Session Introduction: New Brief Discussion	Judith Bonsall (Unilever)
8:35	Presentation and Discussion of Refined Ideas for Future Programs/Reviews/Workshops/etc	All
10:00	Coffee	

<b>Selection of New Projects – Part I</b>	<b>Grand Ballroom</b>
Members, Prospective Members, Consultants	Judith Bonsall, Chair

10:30	Session Introduction	Judith Bonsall (Unilever)
10:40	Consultant Feedback on Proposals	Consultants
11:10	Discussion of Preferred Proposals for Dot Voting - New Projects	Members, Prospective Members

<b>Lunch</b>	<b>Pittman Room</b>
	13:10 – 14:00

<b>General Poster Session</b>	<b>Lobby Outside Grand Ballroom</b>
All Meeting Attendees	Judith Bonsall, Chair

2:00	Poster Session and Coffee	Judith Bonsall (Unilever)
5:00	Announcement of Winning Student Posters	Willie Hendrickson (IFPRI)
5:15	Adjourn for day	

Thursday, June 14

**Technical Program Selection Session**

Members, Consultants, Guests

**Grand Ballroom**

Judith Bonsall, Chair

8:00	Project Briefs and Proposals Available in Plenary Room for Reading	
9:30	Session Introduction and Establishment of Quorum	Judith Bonsall (Unilever)
9:40	Dot Voting on Renewals and New Proposals Starting in September 2023	Judith Bonsall (Unilever)
9:55	Counting and Declaration of Rank Order for New Projects	Judith Bonsall (Unilever)
10:00	Clarification of New Ideas and Reviews	Judith Bonsall (Unilever)
10:30	Dot Voting for Reviews with working Coffee Break	Judith Bonsall (Unilever)
10:45	Counting and Declaration of Rank Order for Reviews	Judith Bonsall (Unilever)
10:50	Dot Voting for Workshops	Judith Bonsall (Unilever)
11:00	Counting and Declaration of Rank Order for Workshops	Judith Bonsall (Unilever)
11:05	Dot Voting for Briefs	Judith Bonsall (Unilever)
11:20	Counting and Declaration of Rank Order for Briefs	Judith Bonsall (Unilever)
11:25	Prospective Member Comments	Willie Hendrickson (IFPRI)

**Lunch**

**Pittman Room**

12:00 – 13:00

**Final Business Meeting**

Members, Consultants, Guests

**Grand Ballroom**

Willie Hendrickson, Chair

13:00	Call to Order and Establish Quorum	Willie Hendrickson (IFPRI)
13:05	Set Budget from Rank Order of Proposals, Reviews, and Workshops	Willie Hendrickson (IFPRI)
15:00	Discussion of Performance of Officers and Consultants	Judith Bonsall (Unilever- UK)
16:00	Any Other Business	All
17:00	Adjourn	

**End of 2023 IFPRI AGM**